



# **Analysis of Community Reported Deaths in Chhattisgarh**

**Year 2021**

**Draft Report**

**Prepared by**

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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.

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.

**Number of deaths covered:** For rural areas, this report analyses nearly 170,482 deaths that were recorded by VHSNCs during the year 2021. The deaths covered in 2021 compilation constitute 100% 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	%	No. of reported deaths in 2019	%	No. of reported deaths in 2020	%	No. of reported deaths in 2021	%
Overall Deaths	171643	39168	23	58556	34	74279	43	91147	53	107194	62	90927	53	91202	53	111120	65	131363	77	170482	100%

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

**Causes for deaths reported in different age categories in Rural Chhattisgarh  
(Population in 2020 – Around 220 lakh)**

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	43	123	213	451	5018	1006	876	1253	8983
2	Convulsions	256	164	107	81	270	54	68	81	1081
3	Fever/ Malaria	146	235	176	264	1575	767	1112	2166	6441
4	Neonatal Jaundice	183								183
5	Jaundice		103	77	166	1333	249	194	206	2328
6	Low Birth Weight	445								445
7	Malnutrition		145	50	20	28	6	18	37	304
8	Diarrhea	65	149	70	71	368	115	170	316	1324
9	Pneumonia	347	447	83	37	171	58	47	46	1236
10	T.B.	9	2	8	20	1015	424	450	379	2307
11	Snake Bite		0	0	183	484	88	62	50	867
12	Rabies			4	20	26	14	3	12	79
13	Birth Asphyxia	1470								1470
14	Neonatal Sepsis	663								663
15	Maternal causes					223				223
16	Murder					415	88	50	41	594
17	Suicide					4403	607	352	318	5680
18	Cancer	6	13	22	94	2216	1407	1387	1228	6373
19	HIV/AIDS					83	23	3	6	115
20	Congenital Heart Disease/Anomalies	130	163	83	189					565
21	Stroke					2039	2898	6378	14455	25770
22	Heart Disease					4762	3359	4238	5653	18012
23	High BP					826	846	1477	2260	5409
24	Digestive Diseases	93	76	75	176	1712	736	863	1124	4855
25	Kidney related diseases	20	23	14	63	1976	1034	874	768	4772
26	Diabetes	1	7	6	34	1327	1304	1891	2492	7062
27	Sickle Cell Anemia	7	14	20	94	463	51	33	29	711
28	Covid-19	4	6	2	44	4649	2459	2159	1907	11230
29	Cough & Cold	23	26	5	5	103	59	77	106	404
30	Respiratory diseases	184	70	17	36	1214	912	1489	3744	7666
31	Anemia	37	55	34	59	969	330	418	632	2534
32	Chicken pox	10	17	8	25	70	21	18	18	187
33	Epilepsy					539	91	76	97	803
34	Mental illness					304	103	104	193	704
35	Old age							1304	11036	12340
36	Others	2495	714	335	643	5235	2575	3296	11469	26762
	<b>Total</b>	<b>6637</b>	<b>2552</b>	<b>1409</b>	<b>2775</b>	<b>43816</b>	<b>21684</b>	<b>29487</b>	<b>62122</b>	<b>170482</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 1470, Sepsis 663 and LBW 445 are the leading reported causes of death.
- In 1 to 11 months infants, Pneumonia 447, Fever/Malaria 235, Malnutrition 145, Convulsion 164, Congenital Heart Disease 163 are the leading reported causes of death.
- In 1 to 4 years children, Accident 213, Fever/Malaria 176, Convulsion 107, Pneumonia 83 and Diarrhoea 70 are the leading reported causes of death.
- In 5 to 14 year age group, Accidents 451, CHD 189, Snake bite 183, Digestive 176 and Jaundice 166 are the leading reported causes of death.
- In 15-49 years age group, Accidents 5018, Suicides 4403, Heart disease 4762, Cancer 2216 and Stroke 2039 are the leading reported causes of death.
- In 50-59 years age group, Heart Diseases 3359, Stroke 2898, Cancer 1407, Diabetes 1304 and Accidents 1006 are the leading reported causes of death.
- For deaths in 60-69 years and 70 years and above age groups, Stroke, Heart Diseases, Cancer, Diabetes, Respiratory diseases and Accidents are the leading reported causes.

## Trend in Causes of Rural 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	%	No.of Deaths Reported in 2019	%	No.of Deaths Reported in 2020	%	No.of Deaths Reported in 2021	%
1	Congenital Heart Disease/Anomalies	270	0.5%	155	0.3%	541	1.2%	617	1.3%	602	1.0%	565	0.7%
2	Stroke	3727	7.1%	403	0.9%	1333	3.0%	3231	6.6%	4,082	6.5%	4937	6.3%
3	High BP/Heart Disease			6876	15.4%	6165	14.0%	5308	10.8%	7,372	11.8%	9793	12.4%
4	Accident	5139	9.8%	5020	11.3%	5279	12.0%	5794	11.8%	6734	10.7%	6854	8.7%
5	Digestive Diseases	2166	4.1%	2578	5.8%	2920	6.6%	1945	4.0%	3,065	4.9%	2868	3.6%
6	Suicide	3090	5.9%	2739	6.2%	2877	6.5%	3577	7.3%	4,745	7.6%	5010	6.4%
7	Cancer	2718	5.2%	2591	5.8%	2712	6.1%	2911	5.9%	3,430	5.5%	3758	4.8%
8	Birth Asphyxia	3747	7.2%	926	2.1%	1141	2.6%	1378	2.8%	1,685	2.7%	1470	1.9%
9	Neonatal sepsis			433	1.0%	659	1.5%	528	1.1%	788	1.3%	663	0.8%
10	Diabetes	1339	2.6%	1188	2.7%	1233	2.8%	1611	3.3%	2,040	3.3%	2679	3.4%
11	Jaundice	1785	3.4%	1412	3.2%	1207	2.7%	1360	2.8%	1,803	2.9%	1928	2.4%
12	T.B.	1478	2.8%	1215	2.7%	1020	2.3%	1097	2.2%	1,230	2.0%	1478	1.9%
13	Fever/ Malaria	2082	4.0%	1312	2.9%	951	2.2%	1096	2.2%	1,311	2.1%	3163	4.0%
14	Pneumonia	1833	3.5%	969	2.2%	920	2.1%	861	1.8%	1,055	1.7%	1143	1.4%
15	Convulsions	886	1.7%	710	1.6%	741	1.7%	871	1.8%	1,020	1.6%	932	1.2%
16	Low Birth Weight	1006	1.9%	711	1.6%	611	1.4%	485	1.0%	497	0.8%	445	0.6%
17	Diarrhea	1000	1.9%	634	1.4%	527	1.2%	588	1.2%	720	1.1%	838	1.1%
18	Snake Bite	646	1.2%	529	1.2%	502	1.1%	583	1.2%	922	1.5%	755	1.0%
19	Sickle Cell Anemia	415	0.8%	455	1.0%	476	1.1%	514	1.0%	607	1.0%	649	0.8%
20	Murder	374	0.7%	373	0.8%	350	0.8%	348	0.7%	474	0.8%	503	0.6%
21	Malnutrition	653	1.3%	306	0.7%	276	0.6%	346	0.7%	339	0.5%	249	0.3%
22	Kidney related disease	44	0.1%	72	0.2%	233	0.5%	252	0.5%	2,307	3.7%	3130	4.0%
23	Maternal causes	384	0.7%	272	0.6%	218	0.5%	225	0.5%	425	0.7%	223	0.3%
24	Neonatal Jaundice	263	0.5%	188	0.4%	207	0.5%	185	0.4%	182	0.3%	183	0.2%
25	HIV/AIDS	82	0.2%	101	0.2%	89	0.2%	93	0.2%	130	0.2%	106	0.1%
26	Rabies	87	0.2%	57	0.1%	65	0.1%	79	0.2%	101	0.2%	64	0.1%
27	Respiratory diseases									1,242	2.0%	2433	3.1%
28	Mental Illness									417	0.7%	407	0.5%
29	Anemia									1,028	1.6%	1484	1.9%
30	Chicken pox/Measles									110	0.2%	151	0.2%
31	Covid-19									518	0.8%	7164	9.1%
32	Cough & Cold									64	0.1%	221	0.3%
33	Epilepsy									605	1.0%	630	0.8%
34	Other	17006	32.6%	12288	27.6%	10870	24.6%	13087	26.7%	11,006	17.6%	11997	15.2%
<b>Total</b>		<b>52220</b>	<b>100%</b>	<b>44513</b>	<b>100%</b>	<b>44123</b>	<b>100%</b>	<b>48970</b>	<b>100%</b>	<b>62656</b>	<b>100%</b>	<b>78873</b>	<b>100%</b>

## Community reported mortality in urban slum population of Chhattisgarh

In the urban-slum area, this report analyses 17647 deaths that were recorded by MAS during the year 2021. The deaths covered in 2021 compilation constitute 100% of total no. of deaths expected according to Crude Death Rate of the state (as per SRS 2020). The urban data pertains to slums of 19 cities with around 24 lakh slum population (according to Mitadin Database).

### 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	%	No.of reported deaths in 2019	%	No.of reported deaths in 2020	%	No.of reported deaths in 2021	%
Overall Deaths	14461	2764	21%	8162	69%	9177	68%	8874	66%	11459	85%	14392	98%	17647	125%

**Causes for deaths reported in different age categories in Urban-Slum areas of Chhattisgarh (for urban slum population of around 24 lakh)**

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	5	5	19	38	474	89	88	118	836
2	Convulsions	18	8	3	2	23	4	2	3	63
3	Fever/ Malaria	6	8	13	19	151	63	74	128	462
4	Neonatal Jaundice	7								7
5	Jaundice		6	3	7	88	20	12	12	148
6	Low Birth Weight	68								68
7	Malnutrition		8	2	1					11
8	Diarrhea	1	5	3	3	29	11	12	20	84
9	Pneumonia	8	10	9	3	31	28	20	9	118
10	Congenital Heart Disease/Anomalies	16	7	15	4					42
11	Stroke					156	237	455	738	1586
12	Heart Diseases/Heart attack					727	677	688	727	2819
13	High BP					110	152	248	375	885
14	Digestive Diseases	1	1	5	10	210	86	74	68	455
15	Kidney related Diseases	4		3	8	249	121	116	90	591
16	Diabetes	0				107	120	141	175	543
17	HIV/AIDS	0				39	3	1		43
18	T.B.	0			4	103	50	32	26	215
19	Snake Bite				4	4		1		9
20	Rabies				1		1	1		3
21	Birth Asphyxia	198								198
22	Neonatal Sepsis	21								21
23	Maternal causes					31				31
24	Murder					68	6	4		78
25	Suicide					582	62	38	19	701
26	Sickle Cell Anemia			2	6	26	4			38
27	Cancer	0	1		10	227	181	167	121	707
28	Respiratory Diseases	13		2	3	158	102	142	181	601
29	Covid-19	3	1	1	4	1160	722	589	417	2897
30	Cough & Cold	0	2	2		6	6	10	4	30
31	Anemia	0	2		1	40	18	9	15	85
32	Chicken pox	0								0
33	Epilepsy	0				19	4	4	4	31
34	Mental illness	0			1	36	13	8	15	73
35	Old age							68	1041	1109
36	Others	172	54	22	40	433	254	317	767	2059
<b>Total</b>		<b>541</b>	<b>118</b>	<b>104</b>	<b>169</b>	<b>5287</b>	<b>3034</b>	<b>3321</b>	<b>5073</b>	<b>17647</b>

## Trend in Causes of Mortality in Urban Slum Population:

### Year wise comparison of reported cause of urban 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	%	No.of Deaths Reported in 2019	%	No.of Deaths Reported in 2020	%	No.of Deaths Reported in 2021	%
1	Congenital Heart Disease/Anomalies	43	1.1%	46	1.1%	46	1.0%	75	1.3%	67	0.9%	42	0.5%
2	Stroke	569	14.9%	21	0.5%	92	1.9%	242	4.3%	420	5.8%	393	4.2%
3	High BP/Heart Disease			868	20.0%	909	18.8%	938	16.8%	1404	19.3%	1666	18.0%
4	Accident	419	11.0%	505	11.6%	516	10.7%	666	11.9%	656	9.0%	630	6.8%
5	Digestive Diseases	112	2.9%	264	6.1%	236	4.9%	214	3.8%	323	4.4%	313	3.4%
6	Suicide	383	10.0%	433	10.0%	386	8.0%	497	8.9%	638	8.8%	644	7.0%
7	Cancer	225	5.9%	328	7.6%	307	6.4%	427	7.6%	453	6.2%	419	4.5%
8	Birth Asphyxia	543	14.2%	131	3.0%	194	4.0%	224	4.0%	264	3.6%	198	2.1%
9	Neonatal sepsis			38	0.9%	77	1.6%	48	0.9%	35	0.5%	21	0.2%
10	Diabetes	131	3.4%	144	3.3%	116	2.4%	167	3.0%	210	2.9%	227	2.5%
11	Jaundice	112	2.9%	111	2.6%	116	2.4%	119	2.1%	156	2.1%	124	1.3%
12	T.B.	163	4.3%	189	4.4%	195	4.0%	159	2.8%	177	2.4%	157	1.7%
13	Fever/ Malaria	97	2.5%	120	2.8%	145	3.0%	102	1.8%	128	1.8%	260	2.8%
14	Pneumonia	59	1.5%	76	1.8%	62	1.3%	66	1.2%	54	0.7%	89	1.0%
15	Convulsions	37	1.0%	48	1.1%	40	0.8%	63	1.1%	77	1.1%	58	0.6%
16	Low Birth Weight	135	3.5%	50	1.2%	23	0.5%	3	0.1%	77	1.1%	68	0.7%
17	Diarrhea	61	1.6%	53	1.2%	36	0.7%	40	0.7%	54	0.7%	52	0.6%
18	Snake Bite	13	0.3%	6	0.1%	10	0.2%	12	0.2%	10	0.1%	8	0.1%
19	Sickle Cell Anemia	45	1.2%	40	0.9%	48	1.0%	30	0.5%	62	0.9%	38	0.4%
20	Murder	30	0.8%	43	1.0%	29	0.6%	45	0.8%	65	0.9%	74	0.8%
21	Malnutrition	46	1.2%	18	0.4%	12	0.2%	16	0.3%	14	0.2%	11	0.1%
22	Kidney related Diseases	1	0.0%	0	0.0%	11	0.2%	37	0.7%	329	4.5%	385	4.2%
23	Maternal causes	26	0.7%	15	0.3%	14	0.3%	21	0.4%	31	0.4%	31	0.3%
24	Neonatal Jaundice	24	0.6%	15	0.3%	14	0.3%	1	0.0%	13	0.2%	7	0.1%
25	HIV/AIDS	50	1.3%	48	1.1%	36	0.7%	49	0.9%	62	0.9%	42	0.5%
26	Rabies	8	0.2%	10	0.2%	4	0.1%	14	0.3%	5	0.1%	2	0.0%
27	Respiratory Diseases									134	1.8%	278	3.0%
28	Covid-19									233	3.2%	1891	20.4%
29	Cough & Cold									5	0.1%	16	0.2%
30	Anemia									36	0.5%	61	0.7%
31	Chicken pox									1	0.0%	0	0.0%
32	Epilepsy									28	0.4%	23	0.2%
33	Mental illness									48	0.7%	50	0.5%
34	Other	493	12.9%	716	16.5%	1158	24.0%	1311	23.5%	1003	13.8%	975	10.5%
<b>Total</b>		<b>3825</b>	<b>100.0%</b>	<b>4336</b>	<b>100.0%</b>	<b>4832</b>	<b>100.0%</b>	<b>5586</b>	<b>100.0%</b>	<b>7272</b>	<b>100.0%</b>	<b>9253</b>	<b>100.0%</b>

## **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. Overall, the state faces formidable challenges in form of large proportion of preventable and under-60 year age deaths due to accidents, suicides and chronic infectious and non-communicable diseases. Suicides show a worrying trend of increase each year. The suicide rate in the state now is among the highest in all states of the country. Further investigation is needed to understand the causes of high suicide mortality in Chhattisgarh.

In 2021, there is a considerable increase recorded in overall mortality. It could be due to several factors which need to be invested further a) better recording of deaths in 2021 in comparison to earlier years b) additional deaths due to Covid-19 infections, both among the detected and undetected cases c) additional deaths due to lockdown. Additional analysis and studies will be needed to assess the extent of excess mortality in 2021, the year of the pandemic.

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:

Death Register of VHSNC										
Month:.....Year.....										
Sl.	Name of the person	Father's / Husband's name	Age	Cast e	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 2020). As per the information compiled for 2021 (January to December), 170482 deaths have been documented.

In 2021, 100% 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 38% of the expected neonatal deaths, 35% of post-neonatal infant deaths and 16% of child deaths of the remaining age group up to 4 years for rural areas. Similarly it covers 52% 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	Expect ed Rural Deaths	No. of reporte d deaths in 2012	%	No. of report ed deaths in 2013	%	No.of report ed deaths in 2014	%	No.of reporte d deaths in 2015	%	No.of reporte d deaths in 2016	%	No.of reporte d deaths in 2017	%	No.of reporte d deaths in 2018	%	No.of reporte d deaths in 2019	%	No.of reporte d deaths in 2020	%	No.of reporte d deaths in 2021	%
Overall Deaths	171643	39168	23	58556	34	74279	43	91147	53	107194	62	90927	53	91202	53	111120	65	131363	77	170482	100

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 related Deaths:

VHSNCs have reported 6441 deaths during 2021 for which the cause is recorded as fever.

S.N.	District	Rural Projected Population 2020-21	No.of Fever/Malaria death reported by VHSNC in 2017	No.of Fever/Malaria death reported by VHSNC in 2018	No.of Fever/Malaria death reported by VHSNC in 2019	No.of Fever/Malaria death reported by VHSNC in 2020	No.of Fever/Malaria death reported by VHSNC in 2021
1	RAIPUR	1087671	77	77	74	91	599
2	BALODABAZAR	1399946	191	133	192	172	589
3	BEMETARA	853782	67	41	53	64	551
4	RAIGARH	1420262	181	120	186	226	435
5	RAJNANDGAON	1520827	67	42	79	83	434
6	BILASPUR	1133881	145	140	118	139	381
7	JANJGIR	1659430	113	80	138	163	372
8	KAWARDHA	1001404	44	41	26	44	335
9	GARIYABAND	684569	59	39	39	99	222
10	DURG	730890	23	22	36	28	214
11	MAHASAMUND	1092142	67	49	72	76	200
12	BALOD	854690	37	22	32	62	194
13	KORBA	896523	20	26	12	47	174
14	JASHPUR	848666	87	99	61	63	167
15	BALRAMPUR	802764	70	53	63	83	163
16	DHAMTARI	690469	68	43	47	55	151
17	KORIA	500003	38	26	20	81	149
18	BASTAR	795487	112	103	103	98	146
19	SURGUJA	811811	89	93	66	80	140
20	MUNGELI	825791	55	29	41	37	131
21	KANKER	729282	52	23	42	67	125
22	SURAJPUR	827798	25	39	19	20	118
23	DANTEWADA	214015	42	29	86	67	115
24	SUKMA	220481	43	51	53	41	96
25	KONDAGAON	590867	17	31	35	42	80
26	GPM	405138				26	74
27	BIJAPUR	224129	128	62	43	39	62
28	NARAYANPUR	133797	10	14	10	25	24
<b>State Average</b>		<b>22956515</b>	<b>1927</b>	<b>1527</b>	<b>1746</b>	<b>2118</b>	<b>6441</b>

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

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	146	2%
2	1-11 month	235	4%
3	1-4 year	176	3%
4	5-14 year	264	4%
5	15-49year	1575	24%
6	50-59year	767	12%
7	60-69year	1112	17%
8	More than 70year	2166	34%
<b>Total</b>		<b>6441</b>	<b>100%</b>

53% of the reported deaths due to Fever are of male persons.

Gender	No.of Death Reported	Percentage
Male	3442	53%
Female	2999	47%
<b>Total</b>	<b>6441</b>	<b>100%</b>

There is a seasonal trend in deaths with 58% of the Fever related deaths happening in months April to May.

Month	No.of Death Reported	Percentage
January	174	3%
February	144	2%
March	221	3%
April	2228	35%
May	1458	23%
June	303	5%
July	353	5%
August	426	7%
September	352	5%
October	316	5%
November	262	4%
December	204	3%
<b>Total</b>	<b>6441</b>	<b>100%</b>

The trend of fever deaths over last 9 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
2019	48970	866	399
2020	62656	1021	521
2021	78873	2782	1122

It shows decline in death reported to this cause and the decline from 2015 to 2020 is especially dramatic.

## 2.2 Deaths due to Pneumonia:

VHSNCs have reported 1236 deaths during 2021 for which the cause is recorded as pneumonia.

S.N.	District	Rural Projected Population 2020-21	No.of deaths reported by VHSNC in 2017	No.of deaths reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	KAWARDHA	1001404	58	49	60	72	92
2	RAJNANDGAON	1520827	69	68	77	78	92
3	RAIPUR	1087671	57	45	48	31	80
4	GARIYABAND	684569	55	24	41	63	79
5	BALODABAZAR	1399946	58	34	48	57	74
6	DHAMTARI	690469	25	36	33	34	69
7	BASTAR	795487	45	61	78	78	62
8	BEMETARA	853782	52	47	37	35	50
9	BILASPUR	1133881	77	107	76	74	50
10	BIJAPUR	224129	44	59	30	56	47
11	JANJGIR	1659430	38	36	38	56	46
12	SURAJPUR	827798	41	23	21	46	45
13	BALRAMPUR	802764	20	18	13	27	41
14	KANKER	729282	39	26	28	44	39
15	KONDAGAON	590867	43	37	25	44	38
16	SUKMA	220481	23	33	34	46	37
17	SURGUJA	811811	20	19	19	31	37
18	BALOD	854690	30	35	18	22	36
19	DURG	730890	31	26	29	11	35
20	GPM	405138				42	33
21	RAIGARH	1420262	16	30	26	24	33
22	DANTEWADA	214015	34	16	22	30	27
23	MAHASAMUND	1092142	33	40	23	22	25
24	MUNGELI	825791	43	24	30	30	19
25	KORBA	896523	18	25	9	15	16
26	JASHPUR	848666	16	19	16	10	12
27	KORIA	500003	5	2	5	17	12
28	NARAYANPUR	133797	2	6	6	5	10
<b>State Average</b>		<b>22956515</b>	<b>992</b>	<b>945</b>	<b>890</b>	<b>1100</b>	<b>1236</b>

71% deaths due to pneumonia are in under-5 years age group.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	347	28%
2	1-11 month	447	36%
3	1-4 year	83	7%
4	5-14 year	37	3%
5	15-49year	171	14%
6	50-59year	58	5%
7	60-69year	47	4%
8	More than 70year	46	4%
<b>Total</b>		<b>1236</b>	<b>100%</b>

58% of the deaths due to pneumonia are of male persons.

Gender	No.of Death Reported	Percentage
Male	712	58%
Female	524	42%
<b>Total</b>	<b>1236</b>	<b>100%</b>

14% of deaths due to pneumonia happened in September.

Month	No.of Death Reported	Percentage
January	104	8%
February	68	6%
March	83	7%
April	155	13%
May	91	7%
June	49	4%
July	74	6%
August	111	9%
September	170	14%
October	127	10%
November	88	7%
December	116	9%
<b>Total</b>	<b>1236</b>	<b>100%</b>

### 2.3 Deaths due to Diarrhea:

VHSNCs have reported 1324 deaths during 2021 for which the cause is recorded as Diarrhea.

S.N.	District	Rural Projected Population 2020-21	No.of death reported by VHSNC in 2017	No.of death reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	RAIGARH	1420262	64	71	50	93	113
2	BASTAR	795487	61	64	81	93	75
3	RAJNANDGAON	1520827	53	46	71	54	75
4	JANJGIR	1659430	50	41	51	43	69
5	GARIYABAND	684569	38	12	23	42	64
6	KAWARDHA	1001404	50	31	39	29	61
7	JASHPUR	848666	43	54	45	58	60
8	SURAJPUR	827798	21	28	21	55	59
9	BALODABAZAR	1399946	37	47	50	42	58
10	RAIPUR	1087671	25	15	25	29	54
11	BALRAMPUR	802764	54	49	60	37	51
12	MAHASAMUND	1092142	34	35	40	40	49
13	DHAMTARI	690469	33	17	22	34	48
14	KONDAGAON	590867	32	28	31	31	43
15	KANKER	729282	37	24	31	49	42
16	SUKMA	220481	27	34	21	30	42
17	BEMETARA	853782	27	8	18	22	41
18	BALOD	854690	14	13	14	22	39
19	BILASPUR	1133881	31	39	30	19	37
20	KORIA	500003	17	14	11	49	37
21	SURGUJA	811811	55	51	35	51	36
22	KORBA	896523	13	16	8	10	34
23	DANTEWADA	214015	17	4	26	23	33
24	MUNGELI	825791	20	26	21	15	29
25	GPM	405138				19	26
26	NARAYANPUR	133797	12	13	18	25	19
27	DURG	730890	14	20	10	16	18
28	BIJAPUR	224129	26	22	22	22	12
<b>State Average</b>		<b>22956515</b>	<b>905</b>	<b>822</b>	<b>874</b>	<b>1052</b>	<b>1324</b>

28% of these deaths are in 15-49 year age group.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	65	5%
2	1-11 month	149	11%
3	1-4 year	70	5%
4	5-14 year	71	5%
5	15-49year	368	28%
6	50-59year	115	9%
7	60-69year	170	13%
8	More than 70year	316	24%
<b>Total</b>		<b>1324</b>	<b>100%</b>

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

Category	No.of Death Reported	Percentage
Male	710	54%
Female	614	46%
<b>Total</b>	<b>1324</b>	<b>100%</b>

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

Month	No.of Death Reported	Percentage
January	101	8%
February	66	5%
March	100	8%
April	226	17%
May	160	12%
June	106	8%
July	89	7%
August	122	9%
September	102	8%
October	89	7%
November	78	6%
December	85	6%
<b>Total</b>	<b>1324</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 years Total deaths recorded	0-5 years Pneumonia related deaths	%	0-5 years Diarrhea related deaths	%
2016	10530	1675	15.90%	400	3.80%
2017	8972	853	9.50%	247	2.80%
2018	8530	826	9.70%	207	2.40%
2019	9650	773	8.00%	258	2.70%
2020	11985	939	7.83%	312	2.60%
2021	10598	877	8.28%	284	2.68%

## **2.4 Deaths due to TB:**

VHSNCs have reported 2307 deaths during 2021 for which the cause is recorded as TB.

S.N.	District	Rural Projected Population 2020-21	No.of TB death reported by VHSNC in 2017	No.of TB death reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	Raigarh	1420262	149	119	143	183	198
2	Rajnandgaon	1520827	103	108	145	124	156
3	Balodabazar	1399946	130	106	117	105	134
4	Bastar	795487	80	100	93	129	129
5	Kawardha	1001404	71	48	65	65	127
6	Mahasamund	1092142	104	83	98	101	115
7	Jashpur	848666	94	105	102	92	114
8	Gariyaband	684569	59	53	53	77	109
9	Raipur	1087671	77	71	66	89	109
10	Janjgir	1659430	96	82	87	65	107
11	Bilaspur	1133881	75	104	84	76	105
12	Kanker	729282	102	67	97	115	104
13	Bemetara	853782	78	49	44	32	75
14	Kondagaon	590867	48	32	48	55	69
15	Sukma	220481	63	49	74	61	67
16	Dhamtari	690469	102	64	83	77	65
17	SURGUJA	811811	43	57	55	61	63
18	Balod	854690	51	63	52	69	60
19	Bijapur	224129	68	43	37	41	52
20	Korba	896523	62	43	30	46	52
21	Surajpur	827798	80	76	42	37	47
22	Durg	730890	44	51	51	66	40
23	Balrampur	802764	48	55	35	54	37
24	Dantewada	214015	30	31	50	37	37
25	Koria	500003	26	14	21	42	37

26	GPM	405138				30	36
27	Mungeli	825791	30	39	28	30	34
28	Narayanpur	133797	22	21	26	32	29
<b>State Average</b>		<b>22956515</b>	<b>1935</b>	<b>1733</b>	<b>1826</b>	<b>1991</b>	<b>2307</b>

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

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	9	0%
2	1-11 month	2	0%
3	1-4 year	8	0%
4	5-14 year	20	1%
5	15-49year	1015	44%
6	50-59year	424	18%
7	60-69year	450	20%
8	More than 70year	379	16%
<b>Total</b>		<b>2307</b>	<b>100%</b>

74% of the deaths due to TB are of male persons.

Category	No.of Death Reported	Percentage
Male	1718	74%
Female	589	26%
<b>Total</b>	<b>2307</b>	<b>100%</b>

There is no seasonal pattern in TB deaths.

Month	No.of Death Reported	Percentage
January	158	7%
February	138	6%
March	171	7%
April	246	11%
May	251	11%
June	185	8%
July	194	8%
August	237	10%
September	187	8%
October	181	8%
November	174	8%
December	185	8%
<b>Total</b>	<b>2307</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 49756 deaths during 2021 for which the cause is recorded as High BP, Stroke and Heart Disease (including congenital heart disease & anomalies).

S.N.	District	Rural Projected Population 2020-21	No.of death reported by VHSNC in 2017	No.of death reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	JANJGIR	1659430	2527	2480	3116	4249	4,839
2	RAJNANDGAON	1520827	1979	2289	3098	3319	4,379
3	RAIGARH	1420262	1578	1603	2124	3273	3,567
4	BALODABAZAR	1399946	1411	1375	2244	2452	3,395
5	RAIPUR	1087671	1134	1082	1335	2137	3,163
6	BALOD	854690	1235	1210	1524	2205	2,737
7	DURG	730890	1360	1489	1641	2093	2,726
8	BILASPUR	1133881	1325	2206	2087	2093	2,621
9	KAWARDHA	1001404	989	1229	1328	1685	2,490
10	MAHASAMUND	1092142	1085	1276	1533	1676	2,160
11	BEMETARA	853782	844	914	987	1232	1,997
12	DHAMTARI	690469	1192	1346	1501	1735	1,947
13	GARIYABAND	684569	366	469	540	972	1576
14	KANKER	729282	673	593	918	1314	1,440
15	MUNGELI	825791	683	919	892	1118	1,407
16	SURAJPUR	827798	688	1019	1119	1015	1,347
17	KORBA	896523	603	600	533	944	1313
18	BASTAR	795487	503	622	748	982	1206
19	JASHPUR	848666	874	933	907	1080	1,170
20	BALRAMPUR	802764	489	649	679	898	1070
21	SURGUJA	811811	611	785	788	975	896
22	KONDAGAON	590867	233	279	349	523	691
23	KORIA	500003	184	170	186	567	527
24	GPM	405138				493	514
25	BIJAPUR	224129	108	121	113	132	171
26	SUKMA	220481	75	86	80	146	159
27	DANTEWADA	214015	68	41	108	98	130
28	NARAYANPUR	133797	79	62	95	163	118
<b>State Average</b>		<b>22956515</b>	<b>22896</b>	<b>25847</b>	<b>30573</b>	<b>39569</b>	<b>49756</b>

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

45% of these deaths due to High BP, Stroke and Heart Disease are in above 70 year age group. The deaths which are of greater concern are in under-60 year age and they constitute 30% of the deaths due to this composite category of causes.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	130	0%
2	1-11 month	163	0%
3	1-4 year	83	0%
4	5-14 year	189	0%
5	15-49year	7627	15%
6	50-59year	7103	14%
7	60-69year	12093	24%
8	More than 70year	22368	45%
<b>Total</b>		<b>49756</b>	<b>100%</b>

58% of the deaths are of male persons.

Category	No.of Death Reported	Percentage
Male	28678	58%
Female	21078	42%
<b>Total</b>	<b>49756</b>	<b>100%</b>

The number of deaths per month is highest in April to May.

Month	No.of Death Reported	Percentage
January	3809	8%
February	3420	7%
March	3292	7%
April	7448	15%
May	6749	14%
June	3103	6%
July	3743	8%
August	3952	8%
September	3244	7%
October	3457	7%
November	3557	7%
December	3982	8%
<b>Total</b>	<b>49756</b>	<b>100%</b>

### 3.2 Deaths due to Cancer:

VHSNCs have reported 6373 deaths during 2021 for which the cause is recorded as Cancer.

S.N.	District	Rural Projected Population 2020-21	No.of death reported by VHSNC in 2017	No.of death reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	RAJNANDGAON	1520827	344	311	471	438	559
2	JANJGIR	1659430	405	366	441	450	484
3	BALODABAZAR	1399946	252	246	331	363	426
4	RAIGARH	1420262	301	247	332	504	423
5	KAWARDHA	1001404	195	163	238	305	407
6	RAIPUR	1087671	262	239	262	341	367
7	BILASPUR	1133881	241	407	331	359	346
8	MAHASAMUND	1092142	222	265	315	310	320
9	BALOD	854690	188	206	223	323	317
10	DURG	730890	214	221	242	226	305
11	BEMETARA	853782	227	200	214	241	282
12	SURAJPUR	827798	159	206	159	173	216
13	GARIYABAND	684569	72	116	133	139	215
14	JASHPUR	848666	157	150	137	223	198
15	DHAMTARI	690469	198	200	217	212	184
16	KANKER	729282	116	99	144	187	178
17	MUNGELI	825791	173	188	194	188	176
18	KORBA	896523	89	89	89	126	168
19	BASTAR	795487	90	108	117	124	163
20	SURGUJA	811811	134	161	139	159	154
21	BALRAMPUR	802764	92	107	117	130	153
22	KONDAGAON	590867	37	39	57	98	115
23	KORIA	500003	58	34	37	115	66
24	GPM	405138				79	63
25	BIJAPUR	224129	33	33	27	29	28
26	SUKMA	220481	16	20	12	18	28
27	DANTEWADA	214015	22	12	22	25	21
28	NARAYANPUR	133797	16	17	13	28	11
<b>State Average</b>		<b>22956515</b>	<b>4313</b>	<b>4450</b>	<b>5014</b>	<b>5913</b>	<b>6373</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	6	0.1%
2	1-11 month	13	0.2%
3	1-4 year	22	0.3%
4	5-14 year	94	1.5%
5	15-49year	2216	35%
6	50-59year	1407	22%
7	60-69year	1387	22%
8	More than 70year	1228	19%
<b>Total</b>		<b>6373</b>	<b>100%</b>

49% of the deaths are of male and 51% of the deaths are of female persons.

Category	No.of Death Reported	Percentage
Male	3121	49%
Female	3252	51%
<b>Total</b>	<b>6373</b>	<b>100%</b>

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

Month	No.of Death Reported	Percentage
January	432	7%
February	460	7%
March	527	8%
April	630	10%
May	590	9%
June	514	8%
July	558	9%
August	631	10%
September	496	8%
October	529	8%
November	493	8%
December	513	8%
<b>Total</b>	<b>6373</b>	<b>100%</b>

### 3.3 Deaths due to Diabetes:

VHSNCs have reported 7062 deaths during 2021 for which the cause is recorded as Diabetes.

S.N.	District	Rural Projected Population 2020-21	No.of death reported by VHSNC in 2017	No.of death reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	JANJGIR	1659430	294	269	302	436	543
2	RAJNANDGAON	1520827	199	211	397	386	522
3	BALODABAZAR	1399946	187	166	313	357	469
4	RAIGARH	1420262	153	183	246	412	451
5	BALOD	854690	149	151	230	362	438
6	MAHASAMUND	1092142	180	196	250	304	428
7	RAIPUR	1087671	153	137	204	288	420
8	KAWARDHA	1001404	83	98	132	240	384
9	BEMETARA	853782	124	122	148	205	368
10	KANKER	729282	177	147	234	291	324
11	BILASPUR	1133881	162	237	232	257	312
12	DHAMTARI	690469	201	205	247	274	301
13	DURG	730890	159	131	188	194	257
14	MUNGELI	825791	159	150	136	215	213
15	GARIYABAND	684569	53	61	96	137	211
16	KORBA	896523	64	74	66	113	194
17	JASHPUR	848666	92	110	121	157	190
18	SURAJPUR	827798	88	150	126	134	177
19	BASTAR	795487	63	60	99	145	167
20	SURGUJA	811811	98	85	77	127	146
21	KONDAGAON	590867	30	42	47	74	145
22	BALRAMPUR	802764	50	64	82	82	112
23	GPM	405138				85	99
24	KORIA	500003	38	42	21	62	79
25	BIJAPUR	224129	22	34	19	30	43
26	NARAYANPUR	133797	29	14	28	51	37
27	DANTEWADA	214015	15	6	12	16	18
28	SUKMA	220481	10	6	9	20	14
<b>State Average</b>		<b>22956515</b>	<b>3032</b>	<b>3151</b>	<b>4062</b>	<b>5454</b>	<b>7062</b>

62% of these deaths are in 60 years and above groups.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	1	0.0%
2	1-11 month	7	0.1%
3	1-4 year	6	0.1%
4	5-14 year	34	0.5%
5	15-49year	1327	19%
6	50-59year	1304	18%
7	60-69year	1891	27%
8	More than 70year	2492	35%
<b>Total</b>		<b>7062</b>	<b>100%</b>

57% of the reported deaths are of male persons.

Category	No.of Death Reported	Percentage
Male	4027	57%
Female	3035	43%
<b>Total</b>	<b>7062</b>	<b>100%</b>

The number of deaths per month is slightly higher in April to May.

Month	No.of Death Reported	Percentage
January	481	7%
February	441	6%
March	468	7%
April	1226	17%
May	1122	16%
June	505	7%
July	510	7%
August	517	7%
September	430	6%
October	531	8%
November	396	6%
December	435	6%
<b>Total</b>	<b>7062</b>	<b>100%</b>

### 3.4 Deaths due to Digestive Disease:

VHSNCs have reported 4855 deaths during 2021 for which the cause is recorded as Digestive disease.

S.N.	District	Rural Projected Population 2020-21	No.of death reported by VHSNC in 2017	No.of death reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	RAJNANDGAON	1520827	260	367	267	315	366
2	RAIGARH	1420262	269	265	200	503	341
3	SURAJPUR	827798	207	333	218	209	267
4	JANJGIR	1659430	260	310	165	316	260
5	BALODABAZAR	1399946	192	182	166	214	258
6	BASTAR	795487	141	236	197	283	219
7	KORBA	896523	122	120	71	193	219
8	BALRAMPUR	802764	207	244	192	219	213
9	SURGUJA	811811	215	227	165	216	213
10	KAWARDHA	1001404	110	113	93	184	201
11	KONDAGAON	590867	87	87	135	194	199
12	RAIPUR	1087671	170	146	82	181	187
13	KANKER	729282	233	194	124	243	180
14	GARIYABAND	684569	120	99	67	120	173
15	MAHASAMUND	1092142	150	281	121	209	167
16	JASHPUR	848666	208	240	160	203	164
17	DHAMTARI	690469	180	182	136	118	155
18	BEMETARA	853782	133	136	71	136	130
19	BALOD	854690	127	123	71	171	123
20	DANTEWADA	214015	88	53	58	78	115
21	DURG	730890	141	151	83	174	114
22	KORIA	500003	104	100	77	171	112
23	BILASPUR	1133881	223	300	182	152	106
24	MUNGELI	825791	88	125	82	105	99
25	GPM	405138				113	95
26	NARAYANPUR	133797	46	30	47	67	73
27	SUKMA	220481	33	41	35	56	61
28	BIJAPUR	224129	96	77	39	69	45
<b>State Average</b>		<b>22956515</b>	<b>4210</b>	<b>4762</b>	<b>3304</b>	<b>5212</b>	<b>4855</b>

35% of these deaths are in 15-49 year age group.

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	93	2%
2	1-11 month	76	2%
3	1-4 year	75	2%
4	5-14 year	176	4%
5	15-49year	1712	35%
6	50-59year	736	15%
7	60-69year	863	18%
8	More than 70year	1124	23%
<b>Total</b>		<b>4855</b>	<b>100%</b>

62% of the deaths are of male persons.

Gender	No.of Death Reported	Percentage
Male	3026	62%
Female	1829	38%
<b>Total</b>	<b>4855</b>	<b>100%</b>

The numbers of deaths are relatively higher during August.

Month	No.of Death Reported	Percentage
January	390	8%
February	262	5%
March	312	6%
April	414	9%
May	527	11%
June	393	8%
July	488	10%
August	547	11%
September	451	9%
October	407	8%
November	342	7%
December	322	7%
<b>Total</b>	<b>4855</b>	<b>100%</b>

### 3.5 Deaths due to Sickle Cell Anemia:

VHSNCs have reported 711 deaths during 2021 for which the cause is recorded as Sickle Cell Anemia.

S.N.	District	Rural Projected Population 2020-21	No.of death reported by VHSNC in 2017	No.of death reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	MAHASAMUND	1092142	59	49	54	75	68
2	RAIGARH	1420262	50	55	39	70	55
3	RAIPUR	1087671	40	34	25	32	54
4	JANJGIR	1659430	41	29	37	48	53
5	GARIYABAND	684569	19	29	28	37	49
6	BALODABAZAR	1399946	25	30	41	36	48
7	KAWARDHA	1001404	13	14	18	17	40
8	RAJNANDGAON	1520827	22	30	26	36	37
9	BALOD	854690	14	20	29	30	30
10	SURAJPUR	827798	23	18	25	22	29
11	DHAMTARI	690469	23	19	25	21	27
12	JASHPUR	848666	15	14	14	11	26
13	SURGUJA	811811	18	39	17	33	26
14	DURG	730890	28	18	18	17	19
15	KANKER	729282	17	17	23	25	19
16	BASTAR	795487	15	18	25	26	18
17	BEMETARA	853782	21	12	22	11	18
18	KORBA	896523	12	16	6	9	17
19	KONDAGAON	590867	3	12	18	11	15
20	MUNGELI	825791	11	14	10	11	15
21	BILASPUR	1133881	13	19	22	27	12
22	KORIA	500003	3	3	5	4	9
23	BALRAMPUR	802764	10	5	8	15	8
24	GPM	405138				3	6
25	DANTEWADA	214015	3	5	10	9	5
26	SUKMA	220481	0	1	2	23	4
27	BIJAPUR	224129	5	2	2	0	2
28	NARAYANPUR	133797	3	3	14	9	2
<b>State Average</b>		<b>22956515</b>	<b>506</b>	<b>525</b>	<b>563</b>	<b>668</b>	<b>711</b>

65% of these deaths are in 15-49 year age group and 19% 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	1.0%
2	1-11 month	14	2.0%
3	1-4 year	20	3%
4	5-14 year	94	13%
5	15-49year	463	65%
6	50-59year	51	7.2%
7	60-69year	33	4.6%
8	More than 70year	29	4.1%
<b>Total</b>		<b>711</b>	<b>100%</b>

58% of the deaths are of female persons.

Gender	No.of Death Reported	Percentage
Male	302	42%
Female	409	58%
<b>Total</b>	<b>711</b>	<b>100%</b>

The numbers of deaths are relatively higher during April.

Month	No.of Death Reported	Percentage
January	53	7%
February	44	6%
March	37	5%
April	91	13%
May	74	10%
June	49	7%
July	70	10%
August	64	9%
September	65	9%
October	64	9%
November	59	8%
December	41	6%
<b>Total</b>	<b>711</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 8983 deaths during 2021 for which the cause is recorded as accident.

S.N.	District	Rural Projected Population 2020-21	No.of death reported by VHSNC in 2017	No.of t death reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	Rajnandgaon	1520827	352	436	565	539	692
2	Janjgir	1659430	505	521	638	650	689
3	Raigarh	1420262	312	320	408	638	620
4	Balodabazar	1399946	448	332	473	450	594
5	Raipur	1087671	373	291	306	449	497
6	Bilaspur	1133881	354	514	495	457	404
7	Mahasamund	1092142	321	337	427	383	383
8	Surajpur	827798	292	407	385	362	380
9	Jashpur	848666	358	369	334	392	372
10	Kawardha	1001404	200	232	218	320	368
11	Balrampur	802764	233	344	334	355	351
12	Durg	730890	234	233	237	296	320
13	Bastar	795487	208	243	284	325	314
14	Bemetara	853782	176	237	224	250	312
15	Balod	854690	223	214	215	305	295
16	SURGUJA	811811	278	335	256	312	289
17	Kanker	729282	192	168	248	299	278
18	Korba	896523	184	186	140	261	274
19	Dhamtari	690469	238	240	263	319	261
20	Gariyaband	684569	101	126	145	205	258
21	Kondagaon	590867	130	86	143	219	240
22	Mungeli	825791	170	211	208	202	193
23	Koria	500003	107	74	92	229	184
24	Dantewada	214015	96	38	104	103	131
25	Bijapur	224129	112	111	91	108	93
26	GPM	405138				121	81
27	Sukma	220481	78	57	83	62	71
28	Narayanpur	133797	31	39	48	81	39
<b>State Average</b>		<b>22956515</b>	<b>6306</b>	<b>6701</b>	<b>7364</b>	<b>8692</b>	<b>8983</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 (Bijapur, Jashpur, Sukma) and fall related deaths (Dantewada, Balrampur, Sarguja, Surajpur, GPM) in some tribal districts.

**Classification of Accidents deaths:**

S.N.	Type of Accidental Death	No.of Deaths	%
1	Road Accidents	4884	54.4%
2	Falling from roof, trees etc)	1556	17.3%
3	Drowning	963	10.7%
4	Burning	560	6.2%
5	Electrocution	542	6.0%
6	Other injury	199	2.2%
7	Lightening	102	1.1%
8	Animal bites	97	1.1%
9	Buried	72	0.8%
10	Suffocated	8	0.1%
11	Fllod	0	0.0%
<b>Total</b>		<b>8983</b>	<b>100%</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	<b>71%</b>	11%	6%	3%	4%
2	Balodabazar	58%	14%	11%	7%	5%
3	Balrampur	43%	<b>24%</b>	16%	5%	5%
4	Bastar	49%	22%	10%	11%	5%
5	Bemetara	57%	17%	7%	6%	5%
6	Bijapur	44%	23%	<b>22%</b>	5%	6%
7	Bilaspur	51%	14%	10%	10%	8%
8	Dantewada	32%	<b>32%</b>	17%	12%	2%
9	Dhamtari	55%	20%	10%	6%	7%
10	Durg	61%	15%	8%	4%	7%
11	Gariyaband	57%	17%	10%	5%	6%
12	GPM	42%	<b>25%</b>	15%	10%	5%
13	Janjgir	50%	17%	12%	6%	9%
14	Jashpur	49%	15%	<b>18%</b>	4%	8%
15	Kanker	58%	19%	9%	3%	7%
16	Kawardha	56%	14%	10%	6%	10%
17	Kondagaon	57%	18%	9%	5%	7%
18	Korba	54%	14%	16%	5%	5%
19	Koria	49%	21%	14%	4%	5%
20	Mahasamund	56%	17%	6%	7%	8%
21	Mungeli	<b>69%</b>	4%	10%	7%	6%
22	Narayanpur	56%	21%	5%	10%	5%
23	Raigarh	54%	17%	11%	8%	6%
24	Raipur	<b>62%</b>	15%	7%	5%	5%
25	Rajnandgaon	59%	19%	7%	8%	4%
26	Sukma	<b>62%</b>	6%	<b>21%</b>	8%	1%
27	Surajpur	46%	<b>24%</b>	14%	5%	5%
28	Surguja	45%	<b>25%</b>	11%	4%	5%
<b>TOTAL</b>		<b>54%</b>	<b>17%</b>	<b>11%</b>	<b>6%</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	43	0%
2	1-11 month	123	1%
3	1-4 year	213	2%
4	5-14 year	451	5%
5	15-49year	5018	56%
6	50-59year	1006	11%
7	60-69year	876	10%
8	More than 70year	1253	14%
<b>Total</b>		<b>8983</b>	<b>100%</b>

**72% of the deaths due to accident are of male persons.**

Gender	No.of Death Reported	Percentage
Male	6480	72%
Female	2503	28%
<b>Total</b>	<b>8983</b>	<b>100%</b>

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

Month	No.of Death Reported	Percentage
January	771	9%
February	728	8%
March	753	8%
April	631	7%
May	772	9%
June	877	10%
July	814	9%
August	802	9%
September	735	8%
October	740	8%
November	686	8%
December	674	8%
<b>Total</b>	<b>8983</b>	<b>100%</b>

#### 4.2 Deaths due to suicide:

VHSNCs have reported 5680 deaths during 2021 for which the cause is recorded as suicide.

S.N.	District	Rural Projected Population 2020-21	No.of deaths reported by VHSNC in 2017	No.of deaths reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	Janjgir	1659430	210	233	289	395	451
2	Rajnandgaon	1520827	193	197	300	338	402
3	Raigarh	1420262	165	140	233	385	350
4	Raipur	1087671	217	184	236	330	350
5	Balodabazar	1399946	172	196	292	295	321
6	Mahasamund	1092142	183	215	241	257	303
7	Balod	854690	155	143	202	275	292
8	Bilaspur	1133881	145	202	254	266	252
9	Kanker	729282	127	81	191	261	248
10	Gariyaband	684569	75	106	105	167	232
11	Durg	730890	180	152	176	213	224
12	Dhamtari	690469	186	206	220	232	206
13	Jashpur	848666	99	135	140	211	205
14	Kawardha	1001404	86	81	109	160	181
15	Kondagaon	590867	83	65	82	140	178
16	Korba	896523	76	107	97	152	169
17	Surajpur	827798	126	143	156	154	168
18	Balrampur	802764	69	120	105	157	161
19	Bemetara	853782	79	97	103	141	158
20	Surguja	811811	98	121	107	153	142
21	Bastar	795487	79	85	90	149	135
22	Dantewada	214015	63	32	86	109	127
23	Koria	500003	43	24	43	141	85
24	Mungeli	825791	61	68	73	105	83
25	Bijapur	224129	65	46	44	65	79
26	GPM	405138				76	74
27	Sukma	220481	48	39	66	45	72
28	Narayanpur	133797	22	25	17	21	32
<b>State Average</b>		<b>22956515</b>	<b>3105</b>	<b>3243</b>	<b>4057</b>	<b>5393</b>	<b>5680</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	1971	35%
2	26 to 35 years	1300	23%
3	36 to 49 years	1132	20%
4	50-59year	607	11%
5	60-69year	352	6%
6	More than 70year	318	6%
<b>Total</b>		<b>5680</b>	<b>100%</b>

70% 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	1255	64%	716	36%	1971
2	26 to 35 years	962	74%	338	26%	1300
3	36 to 49 years	833	74%	299	26%	1132
4	50 to 59 years	459	76%	148	24%	607
5	60 to 69 years	248	70%	104	30%	352
6	More than 70 years	235	74%	83	26%	318
<b>Total</b>		<b>3992</b>	<b>70%</b>	<b>1688</b>	<b>30%</b>	<b>5680</b>

The deaths are concentrated in younger age with 15-25 age group having most deaths due to suicide, followed by the 25-35 year age group.

S.N.	Age Category	Male	%	Female	%
1	15 to 25 years	1255	31%	716	42%
2	26 to 35 years	962	24%	338	20%
3	36 to 49 years	833	21%	299	18%
4	50 to 59 years	459	11%	148	9%
5	60 to 69 years	248	6%	104	6%
6	More than 70 years	235	6%	83	5%
<b>Total</b>		<b>3992</b>	<b>100%</b>	<b>1688</b>	<b>100%</b>

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

<b>Month</b>	<b>No.of Death Reported</b>	<b>Percentage</b>
January	424	7%
February	372	7%
March	496	9%
April	468	8%
May	472	8%
June	535	9%
July	595	10%
August	574	10%
September	475	8%
October	468	8%
November	448	8%
December	353	6%
<b>Total</b>	<b>5680</b>	<b>100%</b>

### 4.3 Deaths due to snake bite:

VHSNCs have reported 867 deaths during 2021 for which the cause is recorded as snake bite.

S.N.	District	Rural Projected Population 2020-21	No.of Deaths reported by VHSNC in 2017	No.of Deaths reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	Janjgir	1659430	61	51	55	100	81
2	Balrampur	802764	43	64	45	52	71
3	Rajnandgaon	1520827	37	50	40	67	47
4	Kawardha	1001404	28	30	26	71	46
5	Balodabazar	1399946	20	17	42	36	45
6	Bastar	795487	22	19	26	46	44
7	Raigarh	1420262	35	46	37	68	39
8	Bilaspur	1133881	33	42	49	36	38
9	Kanker	729282	33	8	31	51	38
10	Surajpur	827798	14	25	32	39	38
11	Dantewada	214015	22	9	27	40	32
12	Jashpur	848666	18	26	16	47	32
13	Bijapur	224129	22	31	18	37	30
14	Korba	896523	20	19	19	39	29
15	Kondagaon	590867	19	6	18	28	28
16	Sukma	220481	18	14	31	30	27
17	Mahasamund	1092142	26	20	30	33	24
18	Gariyaband	684569	13	7	15	32	23
19	Bemetara	853782	14	20	19	22	22
20	Mungeli	825791	25	17	19	20	22
21	Raipur	1087671	16	20	15	30	21
22	Surguja	811811	21	11	20	37	19
23	Durg	730890	11	14	14	12	18
24	Dhamtari	690469	10	11	19	18	15
25	GPM	405138				14	14
26	Koria	500003	17	7	4	31	10
27	Narayanpur	133797	6	1	8	11	8
28	Balod	854690	7	7	7	23	6
<b>State Average</b>		<b>22956515</b>	<b>611</b>	<b>592</b>	<b>682</b>	<b>1070</b>	<b>867</b>

56% 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	0	0%
3	1-4 year	0	0%
4	5-14 year	183	21%
5	15-49year	484	56%
6	50-59year	88	10%
7	60-69year	62	7%
8	More than 70year	50	6%
<b>Total</b>		<b>867</b>	<b>100%</b>

52% of the deaths due to snake bite are of male persons.

Gender	No.of Death Reported	Percentage
Male	453	52%
Female	414	48%
<b>Total</b>	<b>867</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 April.

Month	No.of Death Reported	Percentage
January	12	1%
February	11	1%
March	15	2%
April	31	4%
May	82	9%
June	122	14%
July	169	19%
August	182	21%
September	113	13%
October	85	10%
November	35	4%
December	10	1%
<b>Total</b>	<b>867</b>	<b>100%</b>

#### 4.4 Deaths due to Rabies:

VHSNCs have reported 79 deaths during 2021 for which the cause is recorded as Rabies

S.N.	District	Rural Projected Population 2020-21	No.of Deaths reported by VHSNC in 2017	No.of Deaths reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021
1	Janjgir	1659430	4	4	9	5	11
2	Bastar	795487	6	1	9	6	8
3	Mahasamund	1092142	4	1	6	4	6
4	Raigarh	1420262	4	5	2	18	6
5	Jashpur	848666	10	6	3	3	5
6	Kawardha	1001404	3	2	3	1	5
7	Balodabazar	1399946	3	6	9	0	4
8	Kanker	729282	1	3	3	14	4
9	Kondagaon	590867	3	2	2	1	4
10	Rajnandgaon	1520827	5	6	3	9	4
11	Surguja	811811	4	7	4	2	4
12	Raipur	1087671	2	4	0	2	3
13	Sukma	220481	0	1	8	0	3
14	Bemetara	853782	2	3	2	2	2
15	Dhamtari	690469	1	4	1	1	2
16	Gariyaband	684569	0	2	0	1	2
17	Mungeli	825791	1	4	6	5	2
18	Bilaspur	1133881	7	5	8	5	1
19	Durg	730890	4	4	5	0	1
20	Korba	896523	3	0	2	9	1
21	Koria	500003	3	0	0	3	1
22	Balod	854690	1	0	0	1	0
23	Balrampur	802764	1	1	4	5	0
24	Bijapur	224129	2	1	0	3	0
25	Dantewada	214015	0	1	10	5	0
26	GPM	405138				4	0
27	Narayanpur	133797	0	1	1	0	0
28	Surajpur	827798	2	4	5	5	0
<b>State Average</b>		<b>22956515</b>	<b>76</b>	<b>78</b>	<b>105</b>	<b>114</b>	<b>79</b>

33% 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	4	5%
4	5-14 year	20	25%
5	15-49year	26	33%
6	50-59year	14	18%
7	60-69year	3	4%
8	More than 70year	12	15%
<b>Total</b>		<b>79</b>	<b>100%</b>

76% of the deaths due to Rabies are of male persons.

Gender	No.of Death Reported	Percentage
Male	60	76%
Female	19	24%
<b>Total</b>	<b>79</b>	<b>100%</b>

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

Month	No.of Death Reported	Percentage
January	8	10%
February	5	6%
March	10	13%
April	9	11%
May	6	8%
June	5	6%
July	15	19%
August	5	6%
September	4	5%
October	5	6%
November	3	4%
December	4	5%
<b>Total</b>	<b>79</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 2021

The report covers 6637 of the total 17434 estimated neonatal deaths in the rural areas of the state. Thus the overall reporting percentage for neonatal deaths is 38%. The reporting percentage is higher from districts like Durg, Bastar, Balod and is low from districts like Korba, GPM, Jashpur and Surguja.

S.N.	District	Rural Projected Population 2020-21	Expected no. of Neonatal deaths	No. of Neonatal Deaths Reported in 2017	No. of Neonatal Deaths Reported in 2018	No. of Neonatal deaths reported in 2019	No. of Neonatal deaths reported in 2020	No. of Neonatal deaths reported in 2021	Reporting %
1	Balod	854690	470	181	180	184	237	214	46%
2	Balodabazar	1399946	1258	338	253	312	399	387	31%
3	Balrampur	802764	574	185	223	176	268	275	48%
4	Bastar	795487	422	152	286	266	272	264	63%
5	Bemetara	853782	469	237	226	213	277	300	64%
6	Bijapur	224129	156	77	124	56	75	78	50%
7	Bilaspur	1133881	1111	307	441	365	365	283	25%
8	Dantewada	214015	149	93	55	63	78	213	143%
9	Dhamtari	690469	510	192	211	199	198	161	32%
10	Durg	730890	402	228	246	275	370	282	70%
11	Gariyaband	684569	615	170	178	186	323	273	44%
12	GPM	405138	253				52	76	30%
13	Janjgir	1659430	1092	352	338	435	550	414	38%
14	Jashpur	848666	646	152	182	144	182	136	21%
15	Kanker	729282	383	115	94	67	141	117	31%
16	Kawardha	1001404	1167	194	214	256	402	427	37%
17	Kondagaon	590867	313	93	103	77	113	162	52%
18	Korba	896523	830	136	114	83	152	118	14%
19	Koria	500003	385	92	57	61	174	92	24%
20	Mahasamund	1092142	914	348	330	336	362	357	39%
21	Mungeli	825791	516	227	204	147	183	141	27%
22	Narayanpur	133797	70	14	19	18	21	44	63%
23	Raigarh	1420262	1087	312	270	249	413	406	37%
24	Raipur	1087671	977	313	302	211	311	327	33%
25	Rajnandgaon	1520827	1337	460	475	584	460	469	35%
26	Sukma	220481	153	76	95	101	64	66	43%
27	Surajpur	827798	592	178	260	197	215	339	57%
28	Surguja	811811	580	156	207	188	166	216	37%
<b>State Average</b>		<b>22956515</b>	<b>17434</b>	<b>5378</b>	<b>5687</b>	<b>5449</b>	<b>6823</b>	<b>6637</b>	<b>38%</b>

The neonatal deaths recorded monthly are slightly higher in September onwards.

<b>MONTH</b>	<b>No. of Deaths Reported</b>	<b>%</b>
January	573	9%
February	431	6%
March	482	7%
April	462	7%
May	496	7%
June	449	7%
July	483	7%
August	609	9%
September	658	10%
October	697	11%
November	643	10%
December	654	10%
<b>TOTAL</b>	<b>6637</b>	<b>100%</b>

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

<b>Gender</b>	<b>No. of Deaths Reported</b>	<b>%</b>
Male	3919	59%
Female	2718	41%
<b>Total</b>	<b>6637</b>	<b>100%</b>

The causes for 32% of reported neonatal deaths are due to neonatal conditions (Birth Asphyxia & sepsis). Low Birth Weight, Jaundice and Pneumonia were also important causes of neonatal deaths.

Reported Causes	No. of Deaths Reported	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidental	43	0.6%	0.5%	0.3%	1%	1%	1%	1%	0%	0%
Convulsions	256	3.9%	3.3%	3.9%	4%	3%	4%	3%	3%	2%
Fever	146	2.2%	0.9%	1.0%	1%	2%	2%	2%	3%	2%
Neonatal Jaundice	183	2.8%	2.7%	3.4%	4%	3%	4%	3%	4%	3%
Low Birth Weight	445	6.7%	7.3%	8.9%	11%	13%	16%	17%	14%	11%
Diarrhea	65	1.0%	0.7%	0.6%	1%	1%	1%	1%	1%	1%
Pneumonia	347	5.2%	2.3%	2.9%	6%	6%	8%	7%	7%	8%
T.B.	9	0.1%	0.0%	0.1%	0%	0%	0%	0%	0%	0%
Birth Asphyxia	1470	22.1%	24.7%	25.3%	20%	23%	59%	61%	63%	60%
Neonatal sepsis	663	10.0%	11.5%	9.7%	12%	8%				
Congenital Heart Disease/Anomalies	130	2.0%	1.2%	1.5%	2%	1%	1%			
Digestive Diseases	93	1.4%	0.8%	1.0%	2%	2%	3%			
Kidney related diseases	20	0.3%	0.1%	0.2%	0%	0%	0%			
Neonatal Diabetes	1	0.0%	0.1%	0.1%	0%	0%	0%			
Sickle Cell Anemia	7	0.1%	0.0%	0.0%	0%	0%	0%			
Neonatal Cancer	6	0.1%	0.1%	0.1%	0%	0%	0%			
Covid-19	4	0.1%	0.0%							
Cough & Cold	23	0.3%	0.1%							
Respiratory diseases	184	2.8%	1.0%							
Anemia	37	0.6%	0.1%							
Chicken pox	10	0.2%	0.0%							
Other	2495	37.6%	42.5%	41.0%	36%	37%	1%	5%	6%	12%
<b>Total</b>	<b>6637</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</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>	24	3.6%
<i>Distended abdomen</i>	91	13.7%
<i>Hypothermia</i>	14	2.1%
<i>Cry weak/stopped</i>	44	6.6%
<i>Increased Respiratory Rate</i>	48	7.2%
<i>Unconsciousness</i>	76	11.5%
<i>Feeding less/stopped</i>	366	55.2%
<b>Total</b>	<b>663</b>	<b>100.0%</b>

55% 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 2021**

The report covers 2552 of the total 7346 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 35%. The reporting percentage is higher from districts like Dantewada, Gariyaband, Sukma and is low from districts like Balod, Jashpur and Mungeli.

S.N.	District	Rural Projected Population 2020-21	Expected no. of post-neonatal deaths	No. of Deaths Reported in 2017	No. of Deaths Reported in 2018	No. of deaths Reported in 2019	No. of deaths Reported in 2020	No. of deaths Reported in 2021	Reporting %
1	Balod	854690	227	48	32	41	75	36	16%
2	Balodabazar	1399946	265	103	73	118	134	151	57%
3	Balrampur	802764	455	68	86	106	185	132	29%
4	Bastar	795487	219	61	41	146	178	79	36%
5	Bemetara	853782	227	70	72	71	84	108	48%
6	Bijapur	224129	81	49	35	79	90	36	45%
7	Bilaspur	1133881	300	106	149	144	153	114	38%
8	Dantewada	214015	77	34	19	119	180	93	121%
9	Dhamtari	690469	165	70	60	79	69	60	36%
10	Durg	730890	194	65	67	66	80	104	54%
11	Gariyaband	684569	107	58	31	66	117	131	122%
12	GPM	405138	130				103	61	47%
13	Janjgir	1659430	450	92	77	130	161	150	33%
14	Jashpur	848666	377	74	45	78	88	73	19%
15	Kanker	729282	270	31	22	36	113	80	30%
16	Kawardha	1001404	445	101	88	119	172	180	40%
17	Kondagaon	590867	163	45	23	47	85	34	21%
18	Korba	896523	226	32	55	40	75	68	30%
19	Koria	500003	164	19	13	20	120	73	45%
20	Mahasamund	1092142	469	71	90	94	97	85	18%
21	Mungeli	825791	218	56	47	65	50	42	19%
22	Narayanpur	133797	36	4	12	21	35	28	77%
23	Raigarh	1420262	458	54	52	98	135	86	19%
24	Raipur	1087671	206	100	90	86	88	100	49%
25	Rajnandgaon	1520827	412	109	129	221	154	198	48%
26	Sukma	220481	79	35	31	74	81	50	63%
27	Surajpur	827798	469	51	44	142	213	109	23%
28	Surguja	811811	460	70	41	95	180	91	20%
<b>State Average</b>		<b>22956515</b>	<b>7346</b>	<b>1676</b>	<b>1524</b>	<b>2401</b>	<b>3295</b>	<b>2552</b>	<b>35%</b>

The post-neonatal infant deaths recorded monthly are slightly higher during August to September.

Month	No. of deaths Reported	%
January	226	9%
February	189	7%
March	231	9%
April	192	8%
May	192	8%
June	145	6%
July	202	8%
August	257	10%
September	289	11%
October	219	9%
November	217	9%
December	193	8%
<b>Total</b>	<b>2552</b>	<b>100%</b>

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

Gender	No. of deaths Reported	%
Male	1344	53%
Female	1208	47%
<b>Total</b>	<b>2552</b>	<b>100%</b>

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

Reported Causes	No. of Deaths Reported	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accident	123	5%	3%	2%	4.1%	3%	4%	5%	1%	4%
Convulsion	164	6%	6%	6%	5.7%	4%	5%	3%	2%	2%
Fever/Malaria	235	9%	7%	7%	6.1%	7%	9%	10%	13%	16%
Childhood Jaundice	103	4%	3%	5%	5.4%	4%	4%	3%	4%	5%
Malnutrition	145	6%	7%	9%	9.0%	8%	15%	8%	10%	8%
Pneumonia	447	18%	20%	20%	24.0%	19%	35%	30%	28%	20%
Snake bite	0	0%	0%	0%	0.3%	0%	0%	0%	0%	0%
Diarrhea	149	6%	5%	5%	5.1%	5%	7%	6%	6%	8%
T.B.	2	0%	0%	0%	0.3%	0%	0%	0%	0%	1%

Congenital Heart Disease/Anomalies	163	6%	6%	7%	8.3%	8%	10%			
Digestive Diseases	76	3%	4%	4%	5.1%	3%	5%			
Kidney related diseases	23	1%	1%	1%	0.5%	0%	0%			
Diabetes	7	0%	0%	0%	0.2%	0%	0%			
Sickle Cell Anemia	14	1%	0%	0%	0.7%	0%	0%			
Cancer	13	1%	0%	0%	0.9%	1%	0%			
Covid-19	6	0%	0%							
Cough & Cold	26	1%	0%							
Respiratory diseases	70	3%	1%							
Anemia	55	2%	1%							
Chicken pox	17	1%	0%							
Other	714	28%	34%	32%	24.3%	37%	4%	35%	35%	35%
<b>Total</b>	<b>2552</b>	<b>100%</b>	<b>100%</b>	<b>100%</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 2021

The report covers 1409 of the total 8,810 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 16%. The reporting percentage is higher from districts like Dantewada, Narayanpur, Sukma and is low from districts like Surguja, Surajpur, Bilaspur and Jashpur.

S.N.	District	Rural Projected Population 2020-21	Expected no. of under 5 deaths	No. of Deaths Reported in 2017	No. of Deaths Reported in 2018	No. of deaths Reported in 2019	No. of deaths Reported in 2020	No. of deaths Reported in 2021	Reporting %
1	Balod	854690	146	56	30	49	36	28	19%
2	Balodabazar	1399946	397	101	79	124	108	75	19%
3	Balrampur	802764	811	106	80	86	81	82	10%
4	Bastar	795487	203	92	43	98	85	79	39%
5	Bemetara	853782	162	100	36	64	49	41	25%
6	Bijapur	224129	91	47	31	33	45	21	23%
7	Bilaspur	1133881	641	111	82	137	73	46	7%
8	Dantewada	214015	91	42	20	56	53	64	70%
9	Dhamtari	690469	124	60	38	62	38	28	23%
10	Durg	730890	152	88	48	72	75	39	26%
11	Gariyaband	684569	210	53	41	48	78	67	32%
12	GPM	405138	146				36	16	11%
13	Janjgir	1659430	385	128	78	101	126	82	21%
14	Jashpur	848666	538	75	69	55	76	48	9%
15	Kanker	729282	241	39	16	43	60	52	22%
16	Kawardha	1001404	445	77	66	88	100	108	24%
17	Kondagaon	590867	163	33	21	38	71	39	24%
18	Korba	896523	189	64	35	32	49	49	26%
19	Koria	500003	173	28	15	27	45	25	14%
20	Mahasamund	1092142	258	92	59	55	71	52	20%
21	Mungeli	825791	318	63	45	48	62	33	10%
22	Narayanpur	133797	39	20	13	14	15	21	54%
23	Raigarh	1420262	401	68	61	69	89	51	13%
24	Raipur	1087671	360	98	67	84	70	53	15%
25	Rajnandgaon	1520827	309	104	90	149	114	64	21%
26	Sukma	220481	99	34	43	42	37	52	53%
27	Surajpur	827798	857	65	63	70	62	49	6%
28	Surguja	811811	860	74	50	56	63	45	5%
<b>State Average</b>		<b>22956515</b>	<b>8810</b>	<b>1918</b>	<b>1319</b>	<b>1800</b>	<b>1867</b>	<b>1409</b>	<b>16%</b>

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

<b>Month</b>	<b>No. of Deaths Reported 2021</b>	<b>%</b>
January	84	6%
February	74	5%
March	78	6%
April	107	8%
May	118	8%
June	100	7%
July	158	11%
August	176	12%
September	173	12%
October	148	11%
November	108	8%
December	85	6%
<b>Total</b>	<b>1409</b>	<b>100%</b>

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

<b>Gender</b>	<b>No. of Deaths Reported 2021</b>	<b>%</b>
Male	742	53%
Female	667	47%
<b>Total</b>	<b>1409</b>	<b>100%</b>

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

Reported Causes	No. of Deaths Reported	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accident	213	15%	17%	15%	15.6%	14%	14%	12%	10%	12%
Convulsion	107	8%	8%	8%	7.5%	7%	7%	5%	3%	4%
Fever/Malaria	176	12%	8%	9%	11.0%	11%	17%	17%	21%	20%
Jaundice	77	5%	4%	5%	6.4%	6%	8%	6%	6%	6%
Malnutrition	50	4%	5%	5%	6.7%	6%	10%	6%	5%	5%
Pneumonia	83	6%	6%	7%	7.7%	10%	13%	10%	10%	7%
Snake bite	0	0%	3%	3%	1.9%	2%	2%	1%	2%	2%
Diarrhea	70	5%	5%	5%	4.5%	6%	8%	7%	6%	5%
T.B.	8	1%	0%	1%	0.5%	1%	0%	1%	1%	1%
Rabies	4	0%	1%	0%	0.5%	0%	0%	1%	1%	1%
Congenital Heart Disease/Anomalies	83	6%	4%	7%	6.5%	7%	8%			
Digestive Diseases	75	5%	6%	4%	4.8%	6%	7%			
Kidney related diseases	14	1%	1%	0%	0.4%	0%	0%			
Diabetes	6	0%	0%	1%	0.5%	0%	0%			
Sickle Cell Anemia	20	1%	2%	2%	2.4%	2%	2%			
Cancer	22	2%	2%	2%	2.5%	2%	1%			
Covid-19	2	0%	0%							
Cough & Cold	5	0%	0%							
Respiratory diseases	17	1%	1%							
Anemia	34	2%	1%							
Chicken pox	8	1%	1%							
Other	335	24%	25%	25%	20.8%	20%	2%	35%	35%	37%
<b>Total</b>	<b>1409</b>	<b>100%</b>	<b>100%</b>	<b>100%</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 Deaths of Pregnant women in rural Chhattisgarh

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

VHSNCs have reported 377 deaths during 2021 for which the cause is recorded as pregnant women death.

S.N.	District	Rural Projected Population 2020-21	No.of death reported by VHSNC in 2017	No.of death reported by VHSNC in 2018	No.of deaths reported by VHSNC in 2019	No.of deaths reported by VHSNC in 2020	No.of deaths reported by VHSNC in 2021	%
1	Balodabazar	1399946	18	14	27	35	36	0.3%
2	Janjgir	1659430	25	28	21	46	33	0.2%
3	Rajnandgaon	1520827	19	11	16	34	27	0.2%
4	Dhamtari	690469	22	7	15	11	23	0.4%
5	Gariyaband	684569	12	3	10	16	22	0.3%
6	Mahasamund	1092142	23	20	19	26	21	0.2%
7	Balrampur	802764	18	15	14	47	19	0.5%
8	Bilaspur	1133881	23	23	28	28	18	0.2%
9	Raipur	1087671	25	10	9	16	17	0.2%
10	Bijapur	224129	4	6	10	9	16	1.3%
11	Bastar	795487	5	6	6	14	13	0.3%
12	Korba	896523	3	10	4	16	13	0.3%
13	Koria	500003	5	2	8	29	13	0.6%
14	Kawardha	1001404	11	11	10	14	12	0.1%
15	Durg	730890	9	15	1	12	11	0.2%
16	Mungeli	825791	20	15	8	13	10	0.3%
17	GPM	405138				15	9	0.5%
18	Sukma	220481	8	6	1	2	8	0.6%
19	Bemetara	853782	6	6	6	8	7	0.1%
20	Kondagaon	590867	8	4	9	9	7	0.2%
21	Surajpur	827798	9	12	7	19	7	0.1%
22	Surguja	811811	4	10	8	5	7	0.2%
23	Kanker	729282	4	5	9	7	6	0.1%
24	Balod	854690	10	7	4	11	5	0.1%
25	Jashpur	848666	7	4	9	7	5	0.1%
26	Dantewada	214015	2	1	5	3	4	0.2%
27	Narayanpur	133797	1	2	0	3	4	0.5%
28	Raigarh	1420262	16	10	10	19	4	0.0%
<b>State Average</b>		<b>22956515</b>	<b>317</b>	<b>263</b>	<b>274</b>	<b>474</b>	<b>377</b>	<b>0.2%</b>

**Month wise no. of Deaths reported:**

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

Month	No.of Death Reported	Percentage
January	27	7%
February	24	6%
March	15	4%
April	41	11%
May	57	15%
June	28	7%
July	27	7%
August	33	9%
September	29	8%
October	31	8%
November	30	8%
December	35	9%
<b>Total</b>	<b>377</b>	<b>100%</b>

**Cause wise no. of death in 2021**

S.N.	Reported Causes	No. of Deaths	%
1	Anemia	52	14%
2	Burning	1	0%
3	Cancer	1	0%
4	Convulsion	19	5%
5	Covid-19	17	5%
6	Cough & Cold	1	0%
7	Chicken pox	1	0%
8	Digestive Disease	2	1%
9	Falling	1	0%
10	Fever	7	2%
11	Heart Disease	4	1%
12	Jaundice	6	2%
13	Malaria	1	0%
14	Maternal cause	223	59%
15	Murder	2	1%
16	Other	16	4%
17	High BP	9	2%
18	Respiratory diseases	1	0%
19	Road Accident	2	1%
20	Sickle Cell	5	1%
21	Snake bite	2	1%
22	Suicide	4	1%
	<b>Total</b>	<b>377</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 reported deaths by VHSNC in 2021	% 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 Rabies deaths	% of Maternal deaths	% of Neonatal causes deaths	% of Malnutrition deaths	% of Convulsion deaths	% of Cardiovascular deaths	% of Kidney related deaths	% of Respiratory deaths	% of Anemia deaths
1	BALOD	8447	2.3%	0.4%	0.5%	1.1%	0.7%	3.5%	3.5%	0.1%	0.1%	0.0%	0.1%	2.5%	0.3%	0.2%	32.4%	3.1%	4.8%	0.5%
2	BALODABAZAR	11507	5.1%	0.6%	0.5%	1.6%	1.2%	5.2%	2.8%	0.1%	0.4%	0.0%	0.3%	3.4%	0.3%	0.5%	29.5%	2.1%	3.6%	1.0%
3	BALRAMPUR	4091	4.0%	1.0%	1.2%	2.9%	0.9%	8.6%	3.9%	1.0%	1.7%	0.0%	0.5%	6.7%	0.5%	0.5%	26.2%	3.4%	2.2%	4.7%
4	BASTAR	4469	3.3%	1.4%	1.7%	2.4%	2.9%	7.0%	3.0%	0.3%	1.0%	0.2%	0.3%	5.9%	0.9%	1.5%	27.0%	1.7%	2.1%	1.3%
5	BEMETARA	8052	6.8%	0.6%	0.5%	1.4%	0.9%	3.9%	2.0%	0.2%	0.3%	0.0%	0.1%	3.7%	0.3%	0.5%	24.8%	1.7%	6.0%	0.4%
6	BIJAPUR	1237	5.0%	3.8%	1.0%	1.9%	4.2%	7.5%	6.4%	1.6%	2.4%	0.0%	1.3%	6.3%	0.2%	0.3%	13.8%	4.9%	2.3%	5.7%
7	BILASPUR	7644	5.0%	0.7%	0.5%	1.6%	1.4%	5.3%	3.3%	0.4%	0.5%	0.0%	0.2%	3.7%	0.2%	0.9%	34.3%	2.6%	4.6%	0.6%
8	DANTEWADA	2003	5.7%	1.3%	1.6%	2.0%	1.8%	6.5%	6.3%	0.8%	1.6%	0.0%	0.2%	10.6%	1.3%	2.6%	6.5%	1.3%	0.6%	4.1%
9	DHAMTARI	6339	2.4%	1.1%	0.8%	1.5%	1.0%	4.1%	3.2%	0.2%	0.2%	0.0%	0.4%	2.5%	0.2%	0.2%	30.7%	2.4%	5.6%	1.6%
10	DURG	7201	3.0%	0.5%	0.2%	1.0%	0.6%	4.4%	3.1%	0.2%	0.2%	0.0%	0.2%	3.9%	0.3%	0.4%	37.9%	3.0%	7.7%	1.5%
11	GARIYABAND	6815	3.3%	1.2%	0.9%	1.8%	1.6%	3.8%	3.4%	0.2%	0.3%	0.0%	0.3%	4.0%	0.7%	0.4%	23.1%	3.1%	4.9%	2.6%
12	GPM	1986	3.7%	1.7%	1.3%	1.2%	1.8%	4.1%	3.7%	0.3%	0.7%	0.0%	0.5%	3.8%	0.4%	0.6%	25.9%	2.5%	2.3%	1.7%
13	JANJGIR	13766	2.7%	0.3%	0.5%	1.3%	0.8%	5.0%	3.3%	0.3%	0.6%	0.1%	0.2%	3.0%	0.3%	0.7%	35.2%	2.4%	4.5%	0.7%
14	JASHPUR	5725	2.9%	0.2%	1.0%	1.8%	2.0%	6.5%	3.6%	0.5%	0.6%	0.1%	0.1%	2.4%	0.4%	0.2%	20.4%	3.2%	1.1%	1.5%
15	KANKER	5535	2.3%	0.7%	0.8%	1.4%	1.9%	5.0%	4.5%	0.3%	0.7%	0.1%	0.1%	2.1%	0.3%	0.7%	26.0%	7.4%	3.1%	4.2%
16	KAWARDHA	8113	4.1%	1.1%	0.8%	1.1%	1.6%	4.5%	2.2%	0.3%	0.6%	0.1%	0.1%	5.3%	0.7%	1.2%	30.7%	1.6%	4.3%	0.8%
17	KONDAGAON	3474	2.3%	1.1%	1.2%	2.6%	2.0%	6.9%	5.1%	0.3%	0.8%	0.1%	0.2%	4.7%	0.6%	0.9%	19.9%	2.1%	2.9%	3.9%
18	KORBA	4894	3.6%	0.3%	0.7%	1.5%	1.1%	5.6%	3.5%	0.4%	0.6%	0.0%	0.3%	2.4%	0.3%	0.7%	26.8%	2.9%	4.0%	1.5%
19	KORIA	2054	7.3%	0.6%	1.8%	1.6%	1.8%	9.0%	4.1%	0.6%	0.5%	0.0%	0.6%	4.5%	0.7%	0.6%	25.7%	2.0%	2.0%	1.1%
20	MAHASAMUND	8639	2.3%	0.3%	0.6%	1.5%	1.3%	4.4%	3.5%	0.2%	0.3%	0.1%	0.2%	4.1%	0.6%	0.3%	25.0%	4.3%	7.3%	1.1%
21	MUNGELI	3785	3.5%	0.5%	0.8%	0.7%	0.9%	5.1%	2.2%	0.2%	0.6%	0.1%	0.3%	3.7%	0.8%	0.6%	37.2%	2.0%	4.9%	0.4%
22	NARAYANPUR	743	3.2%	1.3%	2.6%	2.7%	3.9%	5.2%	4.3%	1.5%	1.1%	0.0%	0.5%	5.9%	1.5%	1.2%	15.9%	2.3%	5.1%	2.3%
23	RAIGARH	10924	4.0%	0.3%	1.0%	1.5%	1.8%	5.7%	3.2%	0.4%	0.4%	0.1%	0.0%	3.7%	0.3%	0.8%	32.7%	3.1%	3.1%	1.7%
24	RAIPUR	9951	6.0%	0.8%	0.5%	1.1%	1.1%	5.0%	3.5%	0.1%	0.2%	0.0%	0.2%	3.3%	0.3%	0.5%	31.8%	2.7%	6.4%	0.4%
25	RAJNANDGAON	13227	3.3%	0.7%	0.6%	1.2%	1.2%	5.2%	3.0%	0.3%	0.4%	0.0%	0.2%	3.5%	0.4%	0.5%	33.1%	2.9%	5.3%	0.9%
26	SUKMA	1336	7.2%	2.8%	3.1%	2.0%	5.0%	5.3%	5.4%	0.7%	2.0%	0.2%	0.6%	4.9%	0.7%	4.2%	11.9%	1.2%	2.5%	12.9%
27	SURAJPUR	4785	2.5%	0.9%	1.2%	1.3%	1.0%	7.9%	3.5%	0.6%	0.8%	0.0%	0.1%	7.1%	0.5%	0.4%	28.2%	2.4%	2.7%	1.4%
28	SURGUJA	3740	3.7%	1.0%	1.0%	1.5%	1.7%	7.7%	3.8%	0.8%	0.5%	0.1%	0.2%	5.8%	0.7%	0.3%	24.0%	3.1%	1.4%	2.0%
<b>State Average</b>		<b>170482</b>	<b>3.8%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>1.5%</b>	<b>1.4%</b>	<b>5.3%</b>	<b>3.3%</b>	<b>0.3%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>3.9%</b>	<b>0.4%</b>	<b>0.6%</b>	<b>29.2%</b>	<b>2.8%</b>	<b>4.4%</b>	<b>1.5%</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 17647 deaths that were recorded by MAS during the year 2021. The deaths covered in 2021 compilation constitute 125% of total no. of deaths expected according to Crude Death Rate of the state (as per SRS 2020). The urban data pertains to slums of 19 cities with 2243583 slum population (according to Mitanin Database).

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

Deaths	Expected urban slum Deaths	No.of reported deaths in 2015	%	No.of reported deaths in 2016	%	No.of reported deaths in 2017	%	No.of reported deaths in 2018	%	No.of reported deaths in 2019	%	No.of reported deaths in 2020	%	No.of reported deaths in 2021	%
Overall Deaths	14461	2764	21	8162	69	9177	68	8874	66	11459	85	14392	98	17647	125

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	5	5	19	38	474	89	88	118	836
2	Convulsions	18	8	3	2	23	4	2	3	63
3	Fever/ Malaria	6	8	13	19	151	63	74	128	462
4	Neonatal Jaundice	7								7
5	Jaundice		6	3	7	88	20	12	12	148
6	Low Birth Weight	68								68
7	Malnutrition		8	2	1					11
8	Diarrhea	1	5	3	3	29	11	12	20	84
9	Pneumonia	8	10	9	3	31	28	20	9	118
10	Congenital Heart Disease/Anomalies	16	7	15	4					42
11	Stroke					156	237	455	738	1586
12	Heart Diseases/Heart attack					727	677	688	727	2819
13	High BP					110	152	248	375	885
14	Digestive Diseases	1	1	5	10	210	86	74	68	455
15	Kidney related Diseases	4		3	8	249	121	116	90	591
16	Diabetes	0				107	120	141	175	543
17	HIV/AIDS	0				39	3	1		43
18	T.B.	0			4	103	50	32	26	215
19	Snake Bite				4	4		1		9
20	Rabies				1		1	1		3
21	Birth Asphyxia	198								198
22	Neonatal Sepsis	21								21
23	Maternal causes					31				31
24	Murder					68	6	4		78
25	Suicide					582	62	38	19	701
26	Sickle Cell Anemia			2	6	26	4			38
27	Cancer	0	1		10	227	181	167	121	707
28	Respiratory Diseases	13		2	3	158	102	142	181	601
29	Covid-19	3	1	1	4	1160	722	589	417	2897
30	Cough & Cold	0	2	2		6	6	10	4	30
31	Anemia	0	2		1	40	18	9	15	85
32	Chicken pox	0								0
33	Epilepsy	0				19	4	4	4	31
34	Mental illness	0			1	36	13	8	15	73
35	Old age							68	1041	1109
36	Others	172	54	22	40	433	254	317	767	2059
<b>Total</b>		<b>541</b>	<b>118</b>	<b>104</b>	<b>169</b>	<b>5287</b>	<b>3034</b>	<b>3321</b>	<b>5073</b>	<b>17647</b>

### Urban Slum: Trend of deaths due to fever, diarrhea and pneumonia

Year	0-59 yrs Total deaths	0-59 yrs Fever/Malaria	%	Total Fever/Malaria in 19 city	Total Fever/Malaria in 5 city	%	0-59 yrs Pneumonia	%	0-59 yrs Diarrhea	%
2015	2067	100	4.8%	149	28	1.4%	67	3.2%	32	1.5%
2016	7092	97	1.4%	156	34	0.5%	59	0.8%	61	0.9%
2017	7239	120	1.7%	189	46	0.6%	76	1.0%	53	0.7%
2018	6715	145	2.2%	228	27	0.4%	62	0.9%	36	0.5%
2019	4749	102	2%	218	27	0.6%	66	1.4%	40	0.8%
2020	6862	126	2%	222	43	0.6%	54	0.8%	54	0.8%
2021	9253	260	3%	462	53	0.6%	89	1.0%	52	0.6%

It shows that deaths due to fever, diarrhea and pneumonia have reduced in less than 60 year population in urban slums.

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

541 Neonatal deaths were reported by MAS. An attempt has been made to further unpack this category by causes. It shows the following picture:

Reported Cause	No.of Deaths	%
Accident	5	0.92%
Convulsion	18	3.33%
Fever	6	1.11%
Neonatal Jaundice	7	1.29%
Low Birth Weight	68	12.57%
Diarrhea	1	0.18%
Pneumonia	8	1.48%
Congenital Heart Disease/Anomalies	16	2.96%
Digestive Diseases	1	0.18%
Kidney related Diseases	4	0.74%
Respiratory Diseases	13	2.40%
Birth Asphyxia	198	36.60%
Neonatal Sepsis	21	3.88%
Covid-19	3	0.55%
Other	172	31.79%
<b>Total</b>	<b>541</b>	<b>100.00%</b>

36% deaths due birth asphyxia, is the most common cause of neonatal deaths.

## 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	43	123	213	451	5018	1006	876	1253	8983
2	Convulsions	256	164	107	81	270	54	68	81	1081
3	Fever/ Malaria	146	235	176	264	1575	767	1112	2166	6441
4	Neonatal Jaundice	183								183
5	Jaundice		103	77	166	1333	249	194	206	2328
6	Low Birth Weight	445								445
7	Malnutrition		145	50	20	28	6	18	37	304
8	Diarrhea	65	149	70	71	368	115	170	316	1324
9	Pneumonia	347	447	83	37	171	58	47	46	1236
10	T.B.	9	2	8	20	1015	424	450	379	2307
11	Snake Bite		0	0	183	484	88	62	50	867
12	Rabies			4	20	26	14	3	12	79
13	Birth Asphyxia	1470								1470
14	Neonatal Sepsis	663								663
15	Maternal causes					223				223
16	Murder					415	88	50	41	594
17	Suicide					4403	607	352	318	5680
18	Cancer	6	13	22	94	2216	1407	1387	1228	6373
19	HIV/AIDS					83	23	3	6	115
20	Congenital Heart Disease/Anomalies	130	163	83	189					565
21	Stroke					2039	2898	6378	14455	25770
22	Heart Disease					4762	3359	4238	5653	18012
23	High BP					826	846	1477	2260	5409
24	Digestive Diseases	93	76	75	176	1712	736	863	1124	4855
25	Kidney related diseases	20	23	14	63	1976	1034	874	768	4772
26	Diabetes	1	7	6	34	1327	1304	1891	2492	7062
27	Sickle Cell Anemia	7	14	20	94	463	51	33	29	711
28	Covid-19	4	6	2	44	4649	2459	2159	1907	11230
29	Cough & Cold	23	26	5	5	103	59	77	106	404
30	Respiratory diseases	184	70	17	36	1214	912	1489	3744	7666
31	Anemia	37	55	34	59	969	330	418	632	2534
32	Chicken pox	10	17	8	25	70	21	18	18	187

33	Epilepsy					539	91	76	97	803
34	Mental illness					304	103	104	193	704
35	Old age							1304	11036	12340
36	Others	2495	714	335	643	5235	2575	3296	11469	26762
<b>Total</b>		<b>6637</b>	<b>2552</b>	<b>1409</b>	<b>2775</b>	<b>43816</b>	<b>21684</b>	<b>29487</b>	<b>62122</b>	<b>170482</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 1470, Sepsis 663 and LBW 445 are the leading reported causes of death.
- In 1 to 11 months infants, Pneumonia 447, Fever/Malaria 235, Malnutrition 145, Convulsion 164, Congenital Heart Disease 163 are the leading reported causes of death.
- In 1 to 4 years children, Accident 213, Fever/Malaria 176, Convulsion 107, Pneumonia 83 and Diarrhoea 70 are the leading reported causes of death.
- In 5 to 14 year age group, Accidents 451, CHD 189, Snake bite 183, Digestive 176 and Jaundice 166 are the leading reported causes of death.
- In 15-49 years age group, Accidents 5018, Suicides 4403, Heart disease 4762, Cancer 2216 and Stroke 2039 are the leading reported causes of death.
- In 50-59 years age group, Heart Diseases 3359, Stroke 2898, Cancer 1407, Diabetes 1304 and Accidents 1006 are the leading reported causes of death.
- For deaths in 60-69 years and 70 years and above age groups, Stroke, Heart Diseases, Cancer, Diabetes, Respiratory diseases and Accidents are the leading reported causes.

In urban slum areas, Heart Disease/heart attack 2819, Stroke 1586, Accidents 836, Cancer 707, Suicide 701 and High BP 885 are leading reported cause of deaths. Amongst infectious diseases, TB 215 is the leading reported cause of death in urban slums.

**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	5	5	19	38	474	89	88	118	836
2	Convulsions	18	8	3	2	23	4	2	3	63
3	Fever/ Malaria	6	8	13	19	151	63	74	128	462
4	Neonatal Jaundice	7								7
5	Jaundice		6	3	7	88	20	12	12	148
6	Low Birth Weight	68								68
7	Malnutrition		8	2	1					11
8	Diarrhea	1	5	3	3	29	11	12	20	84
9	Pneumonia	8	10	9	3	31	28	20	9	118
10	Congenital Heart Disease/Anomalies	16	7	15	4					42
11	Stroke					156	237	455	738	1586
12	Heart Diseases/Heart attack					727	677	688	727	2819
13	High BP					110	152	248	375	885
14	Digestive Diseases	1	1	5	10	210	86	74	68	455
15	Kidney related Diseases	4		3	8	249	121	116	90	591
16	Diabetes	0				107	120	141	175	543
17	HIV/AIDS	0				39	3	1		43
18	T.B.	0			4	103	50	32	26	215
19	Snake Bite				4	4		1		9
20	Rabies				1		1	1		3
21	Birth Asphyxia	198								198
22	Neonatal Sepsis	21								21
23	Maternal causes					31				31
24	Murder					68	6	4		78
25	Suicide					582	62	38	19	701
26	Sickle Cell Anemia			2	6	26	4			38
27	Cancer	0	1		10	227	181	167	121	707
28	Respiratory Diseases	13		2	3	158	102	142	181	601
29	Covid-19	3	1	1	4	1160	722	589	417	2897
30	Cough & Cold	0	2	2		6	6	10	4	30
31	Anemia	0	2		1	40	18	9	15	85
32	Chicken pox	0								0
33	Epilepsy	0				19	4	4	4	31
34	Mental illness	0			1	36	13	8	15	73
35	Old age							68	1041	1109
36	Others	172	54	22	40	433	254	317	767	2059
	<b>Total</b>	<b>541</b>	<b>118</b>	<b>104</b>	<b>169</b>	<b>5287</b>	<b>3034</b>	<b>3321</b>	<b>5073</b>	<b>17647</b>

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

The trend of fever deaths over last 9 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 Mitadin 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 Mitadin 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 bed nets) achieving a high coverage in tribal areas/areas with high API. A special campaign was implemented in blocks with extremely high API in 2020. The campaign known as the Malaria Mukht Bastar campaign, conducted mass screening and testing of entire population of identified blocks in Bastar region.

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
2019	48970	866	399
2020	62656	1021	521
2021	78873	2782	1122

The trend of Pneumonia caused child deaths shows a big decline in 2017 in comparison to 2016. Further decline has been recorded in pneumonia related child deaths from 2018 to 2020. It is important to note that Mitadins were provided Amoxicillin for treating childhood ARIs for the first time in January 2017. The trend of Diarrhea related child deaths shows a 35% decline between 2016 and 2020.

Year	0-5 years Total deaths recorded	0-5 years Pneumonia related deaths	%	0-5 years Diarrhea related deaths	%
2016	10530	1675	15.90%	400	3.80%
2017	8972	853	9.50%	247	2.80%
2018	8530	826	9.70%	207	2.40%
2019	9650	773	8.00%	258	2.70%
2020	11985	939	7.83%	312	2.60%
2021	10598	877	8.28%	284	2.68%

**Annexure – I**

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

**VHSNCs have reported 2511 deaths during 2021 for which the cause is recorded as jaundice.**

<b>S.N.</b>	<b>District</b>	<b>No.of Death reported</b>	<b>%</b>
1	BAALOD	95	4%
2	BALODABAZAAR	181	7%
3	BALRAMPUR	118	5%
4	BASTAR	106	4%
5	BEMETARA	109	4%
6	BIJAPUR	23	1%
7	BILASPUR	124	5%
8	DANTEWADA	41	2%
9	DHAMTARI	97	4%
10	DURG	70	3%
11	GARIYABAND	123	5%
12	GPM	23	1%
13	JANJGIR	173	7%
14	JASHPUR	102	4%
15	KANKER	75	3%
16	KAWARDHA	93	4%
17	KONDAGAON	89	4%
18	KORBA	75	3%
19	KORIA	33	1%
20	MAHASAMUND	129	5%
21	MUNGELI	28	1%
22	NARAYANPUR	20	1%
23	RAIGARH	161	6%
24	RAIPUR	111	4%
25	RAJNANDGAON	165	7%
26	SUKAMA	27	1%
27	SURAJPUR	64	3%
28	SURGUJA	56	2%
<b>TOTAL</b>		<b>2511</b>	<b>100%</b>

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

53% 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	183	7%
2	1-11 month	103	4%
3	1-4 year	77	3%
4	5-14 year	166	7%
5	15-49year	1333	53%
6	50-59year	249	10%
7	60-69year	194	8%
8	More than 70year	206	8%
<b>Total</b>		<b>2511</b>	<b>100%</b>

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

61% of the deaths due to jaundice are of males.

Gender	No.of Death Reported	Percentage
Male	1525	61%
Female	986	39%
<b>Total</b>	<b>2511</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 in July.

Month	No.of Death Reported	Percentage
January	167	7%
February	139	6%
March	141	6%
April	255	10%
May	251	10%
June	182	7%
July	310	12%
August	255	10%
September	229	9%
October	238	9%
November	186	7%
December	158	6%
<b>Total</b>	<b>2511</b>	<b>100%</b>

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

VHSNCs have reported 749 deaths during 2021 for which the cause is recorded as malnutrition.

S.N.	District	No.of Death reported	Death Reporting %
1	BAALOD	25	3%
2	BALODABAZAAR	34	5%
3	BALRAMPUR	22	3%
4	BASTAR	42	6%
5	BEMETARA	28	4%
6	BIJAPUR	3	0%
7	BILASPUR	19	3%
8	DANTEWADA	26	3%
9	DHAMTARI	14	2%
10	DURG	19	3%
11	GARIYABAND	49	7%
12	GPM	7	1%
13	JANJGIR	39	5%
14	JASHPUR	24	3%
15	KANKER	18	2%
16	KAWARDHA	58	8%
17	KONDAGAON	20	3%
18	KORBA	15	2%
19	KORIA	15	2%
20	MAHASAMUND	48	6%
21	MUNGELI	30	4%
22	NARAYANPUR	11	1%
23	RAIGARH	31	4%
24	RAIPUR	33	4%
25	RAJNANDGAON	57	8%
26	SUKAMA	9	1%
27	SURAJPUR	25	3%
28	SURGUJA	28	4%
<b>TOTAL</b>		<b>749</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 59% 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	Percentage
1	<1 month	445	59%
2	1-11 month	145	19%
3	1-4 year	50	7%
4	5-14 year	20	3%
5	15-49year	28	4%
6	50-59year	6	1%
7	60-69year	18	2%
8	More than 70year	37	5%
<b>Total</b>		<b>749</b>	<b>100%</b>

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

54% of the deaths due to low birth weight and malnutrition are male.

Gender	No.of Death Reported	Percentage
Male	407	54%
Female	342	46%
<b>Total</b>	<b>749</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 November.

Month	No.of Death Reported	Percentage
January	59	8%
February	49	7%
March	48	6%
April	72	10%
May	58	8%
June	37	5%
July	52	7%
August	81	11%
September	68	9%
October	57	8%
November	89	12%
December	79	11%
<b>Total</b>	<b>749</b>	<b>100%</b>

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

VHSNCs have reported 594 deaths during 2021 for which the cause is recorded as murder.

S.N.	District	No.of Death reported	%
1	BAALOD	11	2%
2	BALODABAZAAR	17	3%
3	BALRAMPUR	42	7%
4	BASTAR	14	2%
5	BEMETARA	16	3%
6	BIJAPUR	20	3%
7	BILASPUR	28	5%
8	DANTEWADA	17	3%
9	DHAMTARI	10	2%
10	DURG	17	3%
11	GARIYABAND	17	3%
12	GPM	6	1%
13	JANJGIR	48	8%
14	JASHPUR	27	5%
15	KANKER	17	3%
16	KAWARDHA	26	4%
17	KONDAGAON	11	2%
18	KORBA	22	4%
19	KORIA	12	2%
20	MAHASAMUND	18	3%
21	MUNGELI	8	1%
22	NARAYANPUR	11	2%
23	RAIGARH	49	8%
24	RAIPUR	14	2%
25	RAJNANDGAON	46	8%
26	SUKAMA	10	2%
27	SURAJPUR	31	5%
28	SURGUJA	29	5%
<b>TOTAL</b>		<b>594</b>	<b>100%</b>

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

70% of these deaths are in 15-49 year age group. Deaths due to murder are also high in the 50-59 year age group.

S.N.	Age Category	No.of Death reported	Percentage
1	15-49year	415	70%
2	50-59year	88	15%
3	60-69year	50	8%
4	More than 70year	41	7%
<b>Total</b>		<b>594</b>	<b>100%</b>

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

**64% of the deaths due to murder are of male persons.**

Gender	No.of Death Reported	Percentage
Male	381	64%
Female	213	36%
<b>Total</b>	<b>594</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 July.

Month	No.of Death Reported	Percentage
January	57	10%
February	37	6%
March	50	8%
April	38	6%
May	51	9%
June	51	9%
July	58	10%
August	47	8%
September	61	10%
October	53	9%
November	51	9%
December	40	7%
<b>Total</b>	<b>594</b>	<b>100%</b>

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

VHSNCs have reported 115 deaths during 2021 for which the cause is recorded as HIV-AIDS

S.N.	District	No.of Death reported	%
1	Balod	9	8%
2	Balodabazar	3	3%
3	Balrampur	1	1%
4	Bastar	5	4%
5	Bemetara	13	11%
6	Bijapur	0	0%
7	Bilaspur	10	9%
8	Dantewada	1	1%
9	Dhamtari	2	2%
10	Durg	3	3%
11	GPM	0	0%
12	Gariyaband	7	6%
13	Janjgir	3	3%
14	Jashpur	0	0%
15	Kanker	3	3%
16	Kawardha	15	13%
17	Kondagaon	0	0%
18	Korba	1	1%
19	Koria	0	0%
20	Mahasamund	3	3%
21	Mungeli	2	2%
22	Narayanpur	1	1%
23	Raigarh	2	2%
24	Raipur	14	12%
25	Rajnandgaon	15	13%
26	Sukma	0	0%
27	Surajpur	1	1%
28	Surguja	1	1%
<b>TOTAL</b>		<b>115</b>	<b>100%</b>

72% of these deaths are in 15-49 year age group.

S.N.	Age Category	No.of Death	Percentage
1	<1 month	0	0.0%
2	1-11 month	0	0.0%
3	1-4 year	0	0.0%
4	5-14 year	0	0.0%
5	15-49year	83	72.2%
6	50-59year	23	20.0%
7	60-69year	3	2.6%
8	More than 70year	6	5.2%
<b>Total</b>		<b>115</b>	<b>100.0%</b>

**55% of the deaths are of male persons.**

<b>Gender</b>	<b>No.of Death Reported</b>	<b>Percentage</b>
Male	63	55%
Female	52	45%
<b>Total</b>	<b>115</b>	<b>100%</b>

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

<b>Month</b>	<b>No.of Death Reported</b>	<b>Percentage</b>
January	9	8%
February	15	13%
March	11	10%
April	3	3%
May	9	8%
June	16	14%
July	10	9%
August	8	7%
September	10	9%
October	10	9%
November	7	6%
December	7	6%
<b>Total</b>	<b>115</b>	<b>100%</b>

### **3.7 Deaths due to Kidney Related Disease:**

VHSNCs have reported 4772 deaths during 2021 for which the cause is recorded as Kidney related disease

<b>S.N.</b>	<b>District</b>	<b>No.of Death reported</b>	<b>%</b>
1	BAALOD	266	6%
2	BALODABAZAAR	236	5%
3	BALRAMPUR	140	3%
4	BASTAR	77	2%
5	BEMETARA	140	3%
6	BIJAPUR	60	1%
7	BILASPUR	195	4%
8	DANTEWADA	26	1%
9	DHAMTARI	149	3%
10	DURG	214	4%
11	GARIYABAND	208	4%
12	GPM	50	1%
13	JANJGIR	335	7%
14	JASHPUR	184	4%
15	KANKER	412	9%
16	KAWARDHA	129	3%
17	KONDAGAON	74	2%
18	KORBA	142	3%
19	KORIA	41	1%
20	MAHASAMUND	368	8%
21	MUNGELI	74	2%
22	NARAYANPUR	17	0%
23	RAIGARH	339	7%
24	RAIPUR	267	6%
25	RAJNANDGAON	381	8%
26	SUKAMA	16	0%
27	SURAJPUR	115	2%
28	SURGUJA	117	2%
<b>TOTAL</b>		<b>4772</b>	<b>100%</b>

41% of these deaths are in 15-49 year age group

S.N.	Age Category	No.of Death reported	Percentage
1	<1 month	20	0.4%
2	1-11 month	23	0.5%
3	1-4 year	14	0.3%
4	5-14 year	63	1.3%
5	15-49year	1976	41.4%
6	50-59year	1034	21.7%
7	60-69year	874	18.3%
8	More than 70year	768	16.1%
<b>Total</b>		<b>4772</b>	<b>100.0%</b>

69% of the deaths are of male persons.

Gender	No.of Death Reported	Percentage
Male	3305	69%
Female	1467	31%
<b>Total</b>	<b>4772</b>	<b>100%</b>

The number of deaths per month is highest in April.

Month	No.of Death Reported	Percentage
January	304	6%
February	323	7%
March	356	7%
April	583	12%
May	513	11%
June	334	7%
July	416	9%
August	431	9%
September	346	7%
October	446	9%
November	392	8%
December	328	7%
<b>Total</b>	<b>4772</b>	<b>100%</b>

## Annexure – II

**Table No.13 District wise no. of Deaths in 5 to 14 years age group in 2021**

The report covers 2775 deaths in the 5-14 year age group in rural areas of the state.

S.N.	District	No. of Deaths Reported 2021	%
1	Balod	71	3%
2	Balodabazar	200	7%
3	Balrampur	128	5%
4	Bastar	107	4%
5	Bemetara	97	3%
6	Bijapur	36	1%
7	Bilaspur	131	5%
8	Dantewada	59	2%
9	Dhantari	66	2%
10	Durg	53	2%
11	GPM	37	1%
12	Gariyaband	125	5%
13	Janjgir	186	7%
14	Jashpur	121	4%
15	Kanker	86	3%
16	Kawardha	177	6%
17	Kondagaon	94	3%
18	Korba	80	3%
19	Koria	43	2%
20	Mahasamund	128	5%
21	Mungeli	76	3%
22	Narayanpur	34	1%
23	Raigarh	120	4%
24	Raipur	118	4%
25	Rajnandgaon	172	6%
26	Sarguja	81	3%
27	Sukma	49	2%
28	Surajpur	100	4%
<b>TOTAL</b>		<b>2775</b>	100%

**Table No.14 Month wise no. of Deaths in 5 to 14 years age group in 2021**

The 5-14 year age group deaths recorded monthly are higher during May to August.

<b>Month</b>	<b>No. of Deaths Reported 2021</b>	<b>%</b>
January	153	6%
February	132	5%
March	188	7%
April	217	8%
May	268	10%
June	292	11%
July	326	12%
August	347	13%
September	241	9%
October	252	9%
November	179	6%
December	180	6%
<b>Total</b>	<b>2775</b>	<b>100%</b>

**Table No.15 Gender wise no. of Deaths in 5 to 14 years age group in 2021**

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

<b>Gender</b>	<b>No. of Deaths Reported 2021</b>	<b>%</b>
Male	1508	54%
Female	1267	46%
<b>Total</b>	<b>2775</b>	<b>100%</b>

**Table No.16 Cause wise no. of Deaths in 5 to 14 years age group in 2021**

In 5 to 14 year age group, Accidents, Congenital Heart diseases/Anomalies, Fever/Malaria and Jaundice are the leading reported causes of death. Malaria is decreasing and Accidents are increasing

Reported Causes	No. of Deaths Reported	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accident	451	16%	20%	19%	21%	21%	18%	15%	12%	14%
Convulsion	81	3%	3%	4%	4%	4%	3%	2%	2%	1%
Fever/Malaria	264	10%	5%	7%	6%	10%	12%	14%	16%	17%
Jaundice	166	6%	6%	6%	7%	7%	7%	6%	7%	6%
Malnutrition	20	1%	1%	0%	1%	1%	1%	1%	1%	1%
Pneumonia	37	1%	1%	1%	2%	2%	2%	2%	2%	1%
Snake bite	183	7%	7%	5%	5%	5%	4%	5%	5%	4%
Diarrhea	71	3%	2%	3%	3%	4%	4%	3%	4%	3%
T.B.	20	1%	1%	1%	1%	1%	1%	1%	1%	1%
Rabies	20	1%	1%	1%	1%	1%	1%	1%	1%	2%
Congenital Heart Disease/Anomalies	189	7%	9%	10%	9%	8%	3%			
Digestive Disease	176	6%	7%	6%	8%	7%	5%			
Kidney related diseases	63	2%	1%	0%	0%	0%	0%			
Diabetes	34	1%	1%	1%	1%	1%	1%			
Cancer	94	3%	3%	4%	4%	3%	3%			
Sickle Cell Anemia	94	3%	3%	4%	4%	4%	2%			
HIV/AIDS		0%	0%	0%	0%	0%	0%			
Covid-19	44	2%	0%							
Cough & Cold	5	0%	0%							
Respiratory diseases	36	1%	1%							
Anemia	59	2%	3%							
Chicken pox	25	1%	1%							
Other	643	23%	22%	27%	24%	23%	33%	49%	49%	50%
<b>Total</b>	<b>2775</b>	<b>100%</b>	<b>100%</b>	<b>100%</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 2021**

The report covers 43816 deaths in the 15-49 year age group in rural areas of the state.

S.N.	District	No. of Deaths Reported 2021	%
1	Balod	1881	4%
2	Balodabazar	2835	6%
3	Balrampur	1122	3%
4	Bastar	1418	3%
5	Bemetara	1632	4%
6	Bijapur	518	1%
7	Bilaspur	2021	5%
8	Dantewada	798	2%
9	Dhamtari	1534	4%
10	Durg	1773	4%
11	Gariyaband	1844	4%
12	GPM	529	1%
13	Janjgir	3379	8%
14	Jashpur	1424	3%
15	Kanker	1642	4%
16	Kawardha	1812	4%
17	Kondagaon	1155	3%
18	Korba	1431	3%
19	Koria	587	1%
20	Mahasamund	2097	5%
21	Mungeli	898	2%
22	Narayanpur	251	1%
23	Raigarh	2723	6%
24	Raipur	2589	6%
25	Rajnandgaon	3263	7%
26	Sarguja	913	2%
27	Sukma	563	1%
28	Surajpur	1184	3%
<b>TOTAL</b>		<b>43816</b>	<b>100%</b>

**Table No.18 Month wise no. of Deaths in 15 to 49 years age group in 2021**

The 15-49 year age group deaths recorded monthly are slightly higher in April.

<b>Month</b>	<b>No. of Deaths Reported 2021</b>	<b>%</b>
January	2702	6%
February	2452	6%
March	2831	6%
April	7582	17%
May	6352	14%
June	3274	7%
July	3648	8%
August	3571	8%
September	2976	7%
October	3051	7%
November	2765	6%
December	2612	6%
<b>Total</b>	<b>43816</b>	<b>100%</b>

**Table No.19 Gender wise no. of Deaths in 15 to 49 years age group in 2021**

65% of the 15-49 year age group deaths recorded were of male persons.

<b>Gender</b>	<b>No. of Deaths Reported 2021</b>	<b>%</b>
Male	28387	65%
Female	15429	35%
<b>Total</b>	<b>43816</b>	<b>100%</b>

**Table No.20 Cause wise no. of Deaths in 15 to 49 years age group in 2021**

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

Reported Causes	No. of Deaths Reported	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidental	5018	11%	15%	17%	17%	16%	13%	14%	13%	12%
Convulsion	270	1%	1%	1%	1%	1%	1%	1%	1%	1%
Fever/Malaria	1575	4%	2%	2%	2%	2%	3%	5%	6%	6%
Jaundice	1333	3%	4%	3%	3%	4%	4%	4%	4%	3%
Malnutrition	28	0%	0%	0%	0%	0%	0%	0%	0%	0%
Murder	415	1%	1%	1%	1%	1%	1%	1%	1%	1%
Pneumonia	171	0%	0%	0%	0%	0%	0%	0%	0%	0%
Snake bite	484	1%	2%	1%	1%	1%	2%	2%	2%	2%
Diarrhea	368	1%	1%	1%	1%	1%	1%	1%	1%	2%
T.B.	1015	2%	2%	3%	3%	4%	4%	5%	4%	4%
Suicide	4403	10%	13%	13%	11%	11%	10%	13%	12%	11%
Rabies	26	0%	0%	0%	0%	0%	0%	0%	0%	0%
Maternal cause	223	1%	1%	1%	1%	1%	1%	2%	2%	2%
High BP	826	2%	1%	1%						
Stroke	2039	5%	5%	5%						
Heart Attack/Disease	4762	11%	11%	11%	17%	16%	8%			
Cancer	2216	5%	6%	7%	7%	7%	6%			
Digestive Disease	1712	4%	5%	4%	7%	6%	4%			
Diabetes	1327	3%	3%	3%	3%	3%	2%			
Sickle Cell Anemia	463	1%	1%	1%	1%	1%	1%			
HIV/AIDS	83	0%	0%	0%	0%	0%	0%			
Kidney related diseases	1976	5%	5%	1%	1%	0%	0%			
Covid-19	4649	11%	1%							
Cough & Cold	103	0%	0%							
Respiratory diseases	1214	3%	2%							
Anemia	969	2%	2%							
Chicken pox	70	0%	0%							
Epilepsy	539	1%	2%							
Mental illness	304	1%	1%							
Other	5235	12%	12%	23%	21%	24%	37%	52%	54%	56%
<b>Total</b>	<b>43816</b>	<b>100%</b>	<b>100%</b>	<b>100%</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 2021**

The report covers 21684 deaths in the 50-59 year age group in rural areas of the state.

S.N.	District	No. of Deaths Reported 2021	%
1	Balod	1167	5%
2	Balodabazar	1491	7%
3	Balrampur	442	2%
4	Bastar	560	3%
5	Bemetara	1040	5%
6	Bijapur	179	1%
7	Bilaspur	889	4%
8	Dantewada	198	1%
9	Dhamtari	820	4%
10	Durg	976	5%
11	Gariyaband	888	4%
12	GPM	245	1%
13	Janjgir	1709	8%
14	Jashpur	698	3%
15	Kanker	876	4%
16	Kawardha	895	4%
17	Kondagaon	485	2%
18	Korba	641	3%
19	Koria	220	1%
20	Mahasamund	1100	5%
21	Mungeli	461	2%
22	Narayanpur	98	0%
23	Raigarh	1343	6%
24	Raipur	1353	6%
25	Rajnandgaon	1806	8%
26	Sarguja	444	2%
27	Sukma	142	1%
28	Surajpur	518	2%
<b>TOTAL</b>		<b>21684</b>	<b>100%</b>

**Table No.22 Month wise no. of Deaths in 50 to 59 years age group in 2021**

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

Month	No. of Deaths Reported 2021	%
January	1306	6%
February	1187	5%
March	1350	6%
April	4507	21%
May	3323	15%
June	1428	7%
July	1520	7%
August	1625	7%
September	1384	6%
October	1436	7%
November	1284	6%
December	1334	6%
<b>Total</b>	<b>21684</b>	<b>100%</b>

**Table No.23 Gender wise no. of Deaths in 50 to 59 years age group in 2021**

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

Gender	No. of Deaths Reported 2021	%
Male	13566	63%
Female	8118	37%
<b>Total</b>	<b>21684</b>	<b>100%</b>

**Table No.24 Cause wise no. of Deaths in 50 to 59 years age group in 2021**

In 50-59 years age group, Heart Diseases, Stroke, Cancer, Diabetes and Accidents are the leading reported causes of death. Deaths with Fever/Malaria has halved over last 5 years.

Reported Causes	No. of Deaths Reported	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidental	1006	5%	6%	7%	7%	6%	6%	6%	5%	5%
Convulsion	54	0%	0%	0%	0%	0%	0%	0%	0%	0%
Fever/Malaria	767	4%	1%	1%	1%	1%	2%	4%	5%	4%
Jaundice	249	1%	2%	2%	1%	2%	2%	2%	2%	1%
Malnutrition	6	0%	0%	0%	0%	0%	0%	0%	0%	0%
Murder	88	0%	1%	1%	1%	0%	1%	1%	1%	0%
Pneumonia	58	0%	0%	0%	0%	0%	0%	0%	0%	0%
Snake bite	88	0%	1%	1%	1%	1%	1%	1%	1%	1%
Diarrhea	115	1%	1%	1%	1%	1%	1%	1%	1%	1%
T.B.	424	2%	3%	3%	3%	4%	4%	5%	4%	5%
Suicide	607	3%	4%	4%	3%	3%	3%	4%	3%	4%
Rabies	14	0%	0%	0%	0%	0%	0%	0%	0%	0%
High BP	846	4%	3%	2%						
Stroke	2898	13%	15%	16%						
Heart Attack/Disease	3359	15%	18%	17%	33%	31%	12%			
Cancer	1407	6%	9%	9%	9%	9%	8%			
Diabetes	1304	6%	6%	7%	5%	5%	6%			
Digestive Disease	736	3%	5%	4%	8%	6%	4%			
Sickle Cell Anemia	51	0%	0%	0%	0%	0%	0%			
Kidney related diseases	1034	5%	5%	1%	1%	0%	0%			
HIV/AIDS	23	0%	0%	0%	0%	0%	0%			
Covid-19	2459	11%	1%							
Cough & Cold	59	0%	0%							
Respiratory diseases	912	4%	3%							
Anemia	330	2%	1%							
Chicken pox	21	0%	0%							
Epilepsy	91	0%	1%							
Mental illness	103	0%	1%							
Other	2575	12%	13%	27%	26%	29%	50%	76%	78%	79%
<b>Total</b>	<b>21684</b>	<b>100%</b>	<b>100%</b>	<b>100%</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 2021**

The report covers 29487 deaths in the 60-69 year age group in rural areas of the state.

S.N.	District	No. of Deaths Reported 2021	%
1	Balod	1735	6%
2	Balodabazar	2005	7%
3	Balrampur	659	2%
4	Bastar	719	2%
5	Bemetara	1440	5%
6	Bijapur	182	1%
7	Bilaspur	1301	4%
8	Dantewada	191	1%
9	Dhamtari	1180	4%
10	Durg	1345	5%
11	Gariyaband	1170	4%
12	GPM	364	1%
13	Janjgir	2445	8%
14	Jashpur	958	3%
15	Kanker	976	3%
16	Kawardha	1332	5%
17	Kondagaon	622	2%
18	Korba	869	3%
19	Koria	370	1%
20	Mahasamund	1392	5%
21	Mungeli	598	2%
22	Narayanpur	130	0%
23	Raigarh	1934	7%
24	Raipur	1739	6%
25	Rajnandgaon	2330	8%
26	Sarguja	555	2%
27	Sukma	197	1%
28	Surajpur	749	3%
<b>TOTAL</b>		<b>29487</b>	<b>100%</b>

**Table No.26 Month wise no. of Deaths in 60 to 69 years age group in 2021**

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

<b>Month</b>	<b>No. of Deaths Reported 2021</b>	<b>%</b>
January	1878	6%
February	1732	6%
March	1929	7%
April	5604	19%
May	4588	16%
June	1935	7%
July	2108	7%
August	2215	8%
September	1811	6%
October	1930	7%
November	1847	6%
December	1910	6%
<b>Total</b>	<b>29487</b>	<b>100%</b>

**Table No.27 Gender wise no. of Deaths in 60 to 69 years age group in 2021**

56% of the 60-69 year age group deaths recorded were of male persons.

<b>Gender</b>	<b>No. of Deaths Reported 2021</b>	<b>%</b>
Male	16484	56%
Female	13003	44%
<b>Total</b>	<b>29487</b>	<b>100%</b>

**Table No.28 Cause wise no. of Deaths in 60 to 69 years age group in 2021**

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

Reported Causes	No. of Deaths Reported	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidental	876	3%	4%	4%	4%	4%	4%	3%	2%	2%
Convulsion	68	0%	0%	0%	0%	0%	0%	0%	0%	0%
Fever/Malaria	1112	4%	1%	1%	1%	1%	3%	4%	5%	4%
Jaundice	194	1%	1%	1%	1%	1%	1%	1%	1%	1%
Malnutrition	18	0%	0%	0%	0%	0%	0%	0%	0%	0%
Murder	50	0%	0%	0%	0%	0%	0%	0%	0%	0%
Pneumonia	47	0%	0%	0%	0%	0%	0%	0%	0%	0%
Snake bite	62	0%	0%	0%	0%	0%	0%	0%	0%	0%
Diarrhea	170	1%	0%	1%	1%	1%	1%	1%	1%	1%
T.B.	450	2%	2%	2%	2%	3%	3%	3%	3%	2%
Suicide	352	1%	2%	1%	1%	1%	1%	2%	1%	1%
Rabies	3	0%	0%	0%	0%	0%	0%	0%	0%	0%
High BP	1477	5%	4%	2%						
Stroke	6378	22%	24%	23%						
Heart Attack/Disease	4238	14%	16%	15%	39%	35%	11%			
Cancer	1387	5%	6%	7%	6%	6%	6%			
Diabetes	1891	6%	7%	6%	5%	6%	5%			
Digestive Disease	863	3%	4%	4%	6%	5%	4%			
Sickle Cell Anemia	33	0%	0%	0%	0%	0%	0%			
HIV/AIDS	3	0%	0%	0%	0%	0%	0%			
Kidney related diseases	874	3%	3%	0%	0%	0%	0%			
Covid-19	2159	7%	1%							
Cough & Cold	77	0%	0%							
Respiratory diseases	1489	5%	5%							
Anemia	418	1%	1%							
Chicken pox	18	0%	0%							
Epilepsy	76	0%	0%							
Mental illness	104	0%	0%							
Old age	1304	4%	3%							
Other	3296	11%	13%	32%	32%	36%	61%	84%	86%	89%
<b>Total</b>	<b>29487</b>	<b>100%</b>	<b>100%</b>	<b>100%</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 2021**

The report covers 62122 deaths in the more than 70 year age group in rural areas of the state.

S.N.	District	No. of Deaths Reported 2021	%
1	Balod	3315	5%
2	Balodabazar	4363	7%
3	Balrampur	1251	2%
4	Bastar	1243	2%
5	Bemetara	3394	5%
6	Bijapur	187	0%
7	Bilaspur	2859	5%
8	Dantewada	387	1%
9	Dhamtari	2490	4%
10	Durg	2629	4%
11	Gariyaband	2317	4%
12	GPM	658	1%
13	Janjgir	5401	9%
14	Jashpur	2267	4%
15	Kanker	1706	3%
16	Kawardha	3182	5%
17	Kondagaon	883	1%
18	Korba	1638	3%
19	Koria	644	1%
20	Mahasamund	3428	6%
21	Mungeli	1536	2%
22	Narayanpur	137	0%
23	Raigarh	4261	7%
24	Raipur	3672	6%
25	Rajnandgaon	4925	8%
26	Sarguja	1395	2%
27	Sukma	217	0%
28	Surajpur	1737	3%
<b>TOTAL</b>		<b>62122</b>	<b>100%</b>

**Table No.30 Month wise no. of Deaths in above 70 years age group in 2021**

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

<b>Month</b>	<b>No. of Deaths Reported 2021</b>	<b>%</b>
January	4903	8%
February	4124	7%
March	3752	6%
April	9945	16%
May	9907	16%
June	3786	6%
July	4245	7%
August	4865	8%
September	3767	6%
October	3959	6%
November	4057	7%
December	4812	8%
<b>Total</b>	<b>62122</b>	<b>100%</b>

**Table No.31 Gender wise no. of Deaths in above 70 years age group in 2021**

52% of the More than 70 year age group deaths recorded were of male persons.

<b>Gender</b>	<b>No. of Deaths Reported 2021</b>	<b>%</b>
Male	32571	52%
Female	29551	48%
<b>Total</b>	<b>62122</b>	<b>100%</b>

**Table No.32 Cause wise no. of Deaths in above 70 years age group in 2021**

For these deaths, Stroke, Heart disease, Diabetes, Cancer, Digestive diseases and Accidents 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 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidental	1253	2%	2%	2%	3%	2%	2%	1%	1%	1%
Convulsion	81	0%	0%	0%	0%	0%	0%	0%	0%	0%
Fever/Malaria	2166	3%	1%	1%	1%	1%	3%	3%	3%	2%
Jaundice	206	0%	0%	0%	0%	1%	0%	0%	0%	0%
Malnutrition	37	0%	0%	0%	0%	0%	0%	0%	0%	0%
Murder	41	0%	0%	0%	0%	0%	0%	0%	0%	0%
Pneumonia	46	0%	0%	0%	0%	0%	0%	0%	0%	0%
Snake bite	50	0%	0%	0%	0%	0%	0%	0%	0%	0%
Diarrhea	316	1%	1%	0%	1%	1%	1%	1%	1%	0%
T.B.	379	1%	1%	1%	1%	1%	1%	1%	1%	1%
Suicide	318	1%	1%	1%	1%	1%	0%	1%	1%	0%
Rabies	12	0%	0%	0%	0%	0%	0%	0%	0%	0%
High BP	2260	4%	3%	1%						
Stroke	14455	23%	26%	27%						
Heart Attack/Disease	5653	9%	9%	10%	37%	32%	6%			
Diabetes	2492	4%	4%	4%	4%	3%	3%			
Digestive Disease	1124	2%	3%	2%	3%	3%	2%			
Cancer	1228	2%	3%	3%	3%	3%	2%			
Genito-urinary disease	768	1%	1%	0%	0%	0%	0%			
Sickle Cell Anemia	29	0%	0%	0%	0%	0%	0%			
HIV/AIDS	6	0%	0%	0%	0%	0%	0%			
Covid-19	1907	3%	1%							
Cough & Cold	106	0%	0%							
Respiratory diseases	3744	6%	7%							
Anemia	632	1%	1%							
Chicken pox	18	0%	0%							
Epilepsy	97	0%	0%							
Mental illness	193	0%	0%							
Old age	11036	18%	17%							
Other	11469	18%	18%	46%	46%	52%	78%	92%	93%	95%
<b>Total</b>	<b>62122</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>