

Year 2022

Analysis of Community Reported Deaths

CHHATTISGARH

Report Prepared by

STATE HEALTH RESOURCE CENTRE, CHHATTISGARH

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Executive Summary

Background

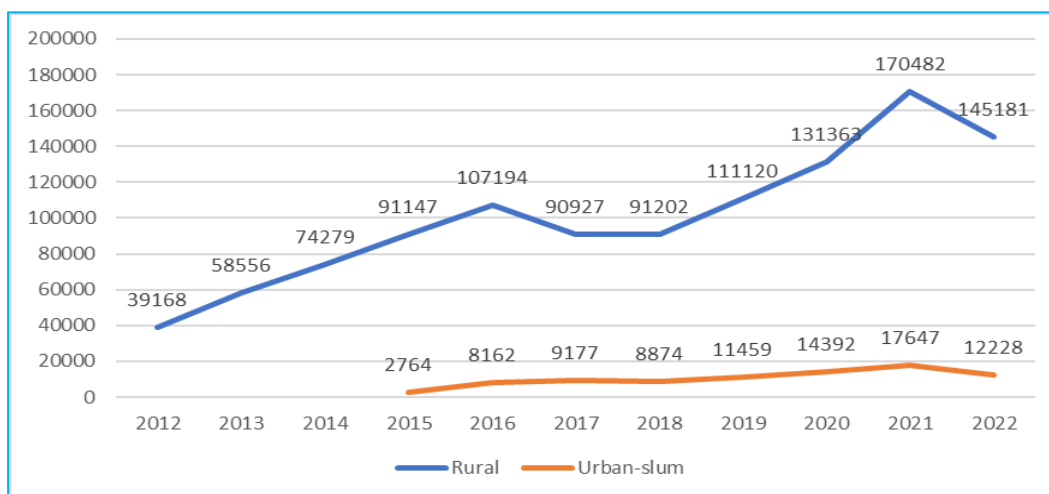
In the rural areas of Chhattisgarh, Village Health Sanitation and Nutrition Committees (VHSNCs) are mandated to record the deaths occurring in the villages. Similarly, in the urban-slum area of Chhattisgarh, Mahila Aarogya Samitis (MAS) are responsible to recording the deaths. These committees also capture the causes of death reported at community level. National guidelines on Community Processes by the National Health Mission (NHM) emphasise the importance of these committees. Chhattisgarh was among the first states in the country to implement this initiative with piloting between 2008 and 2010 and state wise scale up from 2011-12. The community-reported deaths Compiled analytical reports are available from 2012 onwards. The urban component was added from 2015 onwards after the establishment of community processes in urban areas under NHM.

One of the primary purposes of maintaining a register of causes of death in VHSNCs and MAS is to enable ongoing monitoring. The death registers of VHSNCs and MAS are compiled and computerized into a database at the state level by SHRC, enabling analysis of recorded deaths and their causes as reported by the community. It's important to note that the causes of deaths analysed in these reports are community-reported and may not align precisely with the technical definitions outlined in specific guidelines of reproductive and child health, national disease control programs, or the International Classification of Diseases (ICD). Despite this limitation, the information available through VHSNC and MAS registers remains valuable for gaining insight into the approximate causes of deaths in the state.

Trend in Number of Reported Deaths

In 2022, a total of reported deaths was 145,181 in rural area as reported by VHSNCs, and 12228 in urban slum as reported by MAS. The number of deaths covered was nearly 75% of rural deaths and 76% of urban slum expected deaths according to Crude Death Rate of the state (SRS 2020) (Fig.1).

Figure 1. Trend in number of community reported death in Chhattisgarh from 2012 to 2022



Reported Causes of deaths

The total number of deaths, as well as gender wise and rural and urban deaths are shown in **table 1.1**.

Table 1.1 Reported cause of deaths in Chhattisgarh, 2022 (Rural n=145181 and Urban Slum n=12228)

S N	Reported cause of death	Male	Female	Total	Rural	Urban	Total
1	Stroke	14347	11803	26150	24744	1406	26150
2	Others	13557	11777	25334	23557	1777	25334
3	Heart Disease	12507	7086	19593	17349	2244	19593
4	Old age	5159	6523	11682	10814	868	11682
5	Accident	8033	2922	10955	10019	936	10955
6	Cancer	3554	3612	7166	6529	637	7166
7	Suicide	4954	1924	6878	6297	581	6878
8	Respiratory diseases	3354	2542	5896	5487	409	5896
9	Kidney related diseases	4029	1740	5769	5203	566	5769
10	Diabetes	3216	2445	5661	5277	384	5661
11	High BP	2809	2852	5661	5040	621	5661
12	Digestive Diseases	2978	1725	4703	4333	370	4703
13	Fever/ Malaria	1331	1250	2581	2411	170	2581
14	T.B.	1742	660	2402	2211	191	2402
15	Jaundice	1363	846	2209	2092	117	2209
16	Anemia	911	1179	2090	2035	55	2090
17	Birth Asphyxia	1177	784	1961	1768	193	1961
18	Diarrhoea	717	631	1348	1291	57	1348
19	Convulsions	644	637	1281	1188	93	1281
20	Pneumonia	654	604	1258	1172	86	1258
21	Malnutrition	484	456	940	859	81	940
22	Epilepsy	613	276	889	874	15	889
23	Snake Bite	454	405	859	849	10	859
24	Mental illness	429	425	854	784	70	854
25	Murder	498	273	771	683	88	771
26	Sickel Cell Anemia	315	412	727	689	38	727
27	Neonatal Sepsis	325	222	547	524	23	547
28	CHD/Anomalies	171	124	295	259	36	295
29	Maternal causes	3	217	220	202	18	220
30	Corona	137	81	218	179	39	218
31	Cough & Cold	117	64	181	169	12	181
32	HIV/AIDS	90	45	135	105	30	135
33	Chicken pox	61	54	115	114	1	115
34	Rabies	43	20	63	62	1	63
35	Dengue	10	7	17	12	5	17
Total		90786	66623	157409	145181	12228	157409

Figure 2. Cause of reported death (%) in 2022 (Rural n=145181 & Urban Slum n=12228)

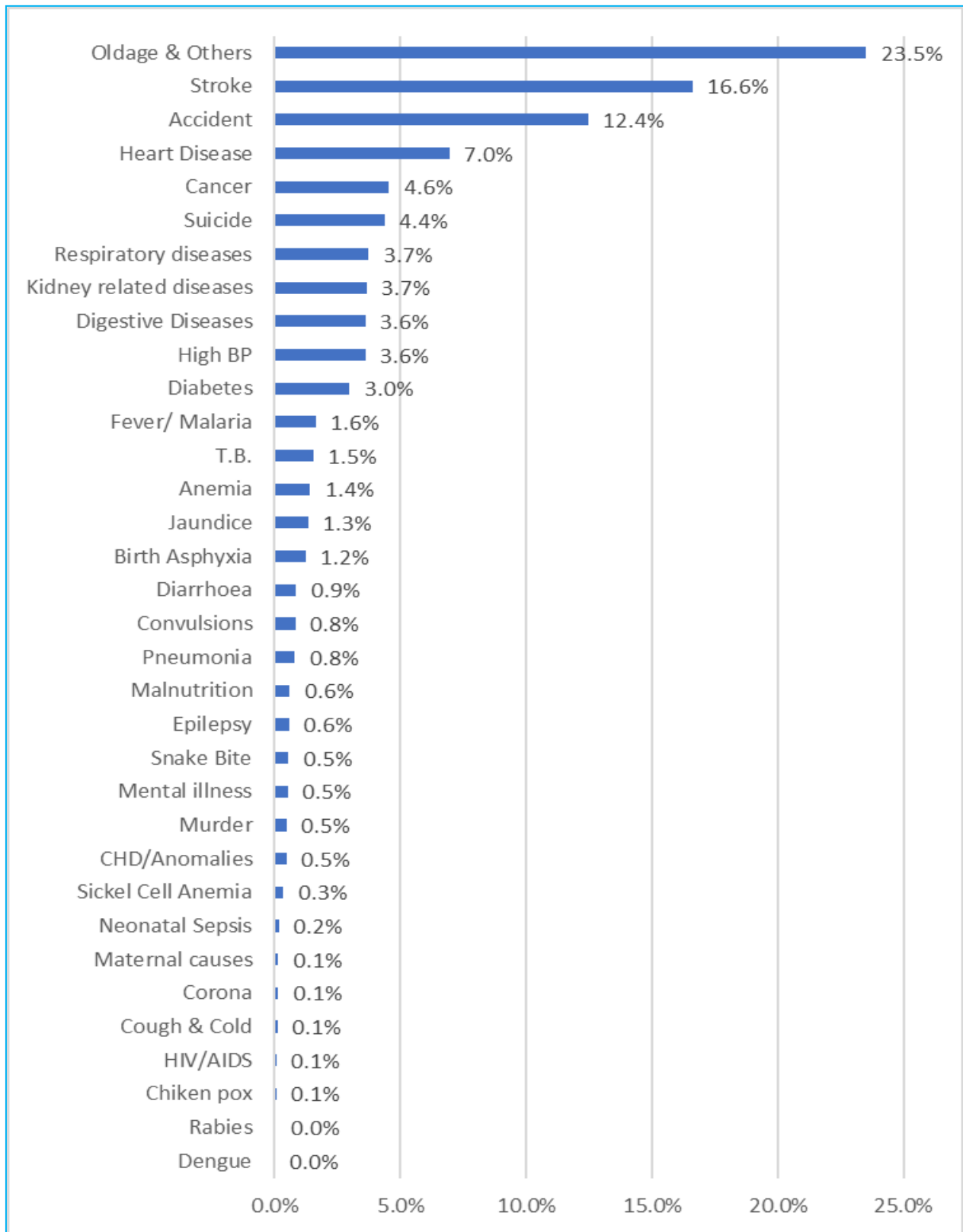


Figure 3. Gender distribution of cause of reported death (%) in 2022 (Rural n=145181 & Urban Slum n=12228)

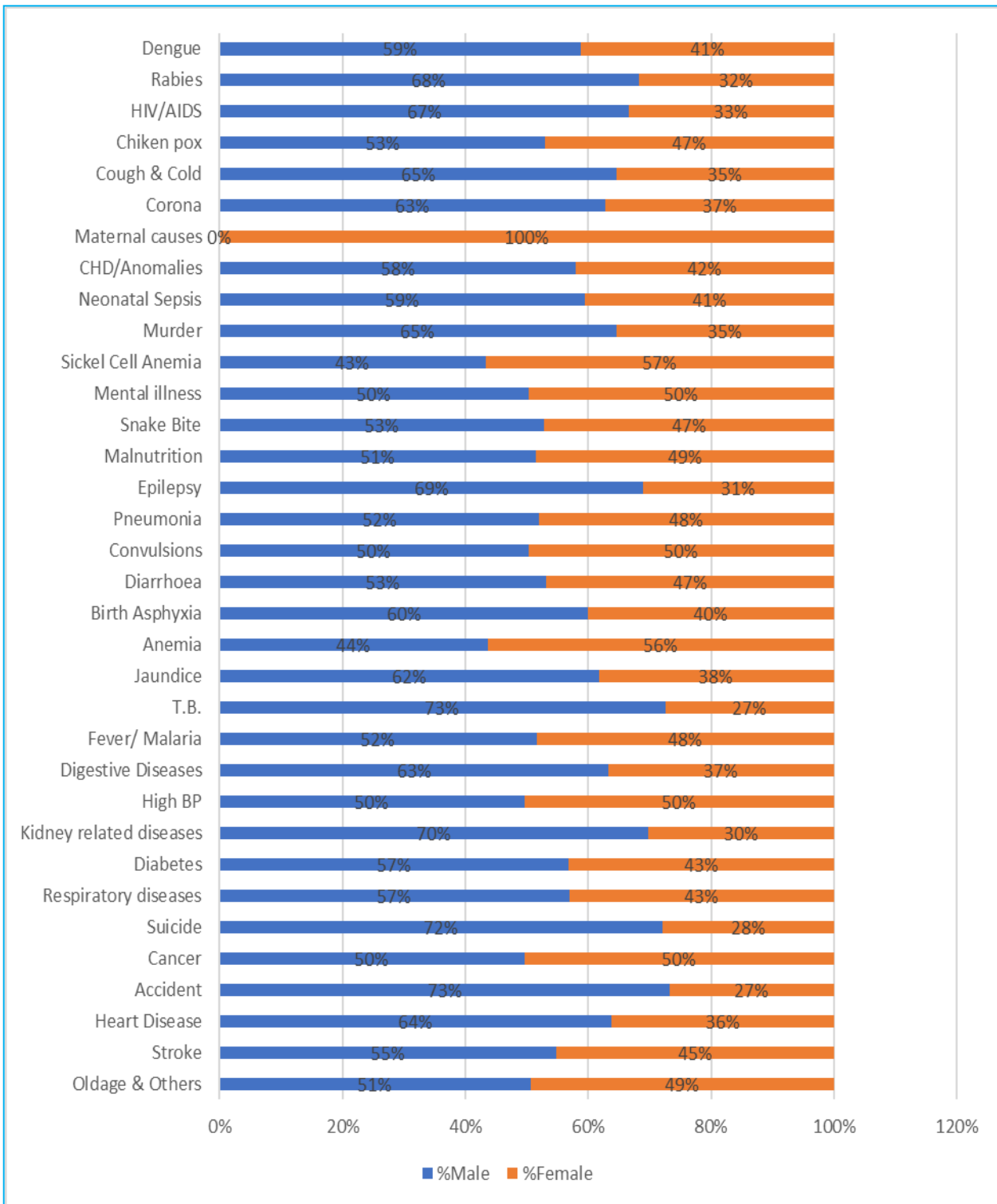


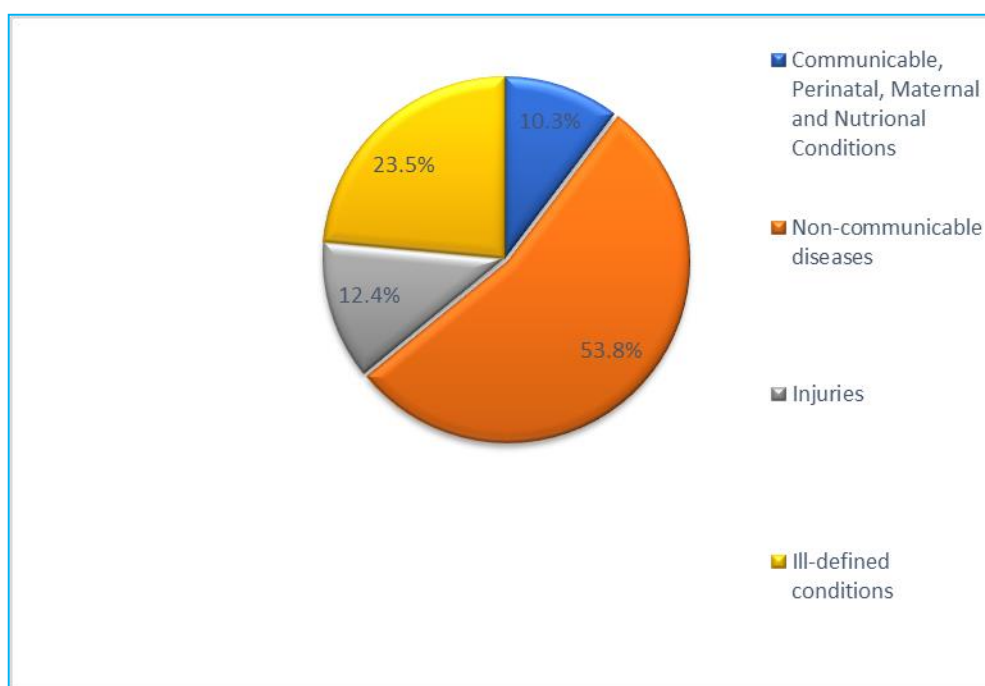
Table 1.2 Age distribution of reported cause of deaths in Chhattisgarh, 2022 (Rural n=145181 and Urban Slum n=12228)

S.N.	Reported Causes	<1 month	1 to 11 months	1-4 years	5 to 14 years	15 to 49 years	50 to 59 years	60 to 69 years	Above 70 years	Total
1	Accident	46	106	276	528	5998	1396	1009	1596	10955
2	Convulsions	289	226	140	84	353	48	51	90	1281
3	Fever/ Malaria	70	228	189	164	726	210	299	695	2581
4	Neonatal Jaundice	187	0	0	0	0	0	0	0	187
5	Jaundice	0	93	61	111	1158	234	175	190	2022
6	Low Birth Weight	571	0	0	0	0	0	0	0	571
7	Malnutrition	0	208	74	12	16	6	13	40	369
8	Diarrhoea	54	180	95	94	367	130	155	273	1348
9	Pneumonia	260	582	151	44	112	35	32	42	1258
10	T.B.	2	4	5	24	987	494	447	439	2402
11	Snake Bite		9	38	154	428	96	64	67	856
12	Rabies			8	18	20	5	6	6	63
13	Birth Asphyxia	1987								1987
14	Neonatal Sepsis	521								521
15	Maternal causes					220				220
16	Murder					554	111	63	37	765
17	Suicide					5304	766	416	383	6869
18	Cancer	5	15	30	89	2463	1653	1564	1347	7166
19	HIV/AIDS				1	101	21	11	0	134
20	CHD/Anomalies	125	172	50	44					391
21	Stroke					2226	3112	6424	14365	26127
22	Heart Disease					5099	3903	4560	5960	19522
23	High BP					781	786	1333	2756	5656
24	Digestive Diseases	51	100	79	144	1637	788	807	1097	4703
25	Kidney related diseases	22	36	25	75	2317	1312	1008	974	5769
26	Diabetes	4	6	7	23	1040	1053	1367	2161	5661
27	Sickel Cell Anemia	3	12	23	91	479	49	43	27	727
28	Respiratory diseases	163	91	26	46	749	613	1081	3128	5897
29	Corona	0	0	3	3	67	41	49	55	218
30	Cough & Cold	7	30	7	4	36	11	27	59	181
31	Anemia	20	26	32	57	815	258	296	586	2090
32	Chicken pox/Measles	10	11	11	19	41	6	11	6	115
33	Epilepsy				1	595	132	75	78	881
34	Mental illness				6	414	124	124	173	841
35	Dengue				0	14	1	2	0	17
36	Old age							1215	10451	11666
37	Others	2596	806	370	434	5103	2563	3348	10172	25392
	Total	6993	2941	1700	2270	40220	19957	26075	57253	157409

The data provides insight into the primary causes of preventable mortality, particularly those recognized by communities, up to the age of sixty years. The analysis also highlights their relative significance.

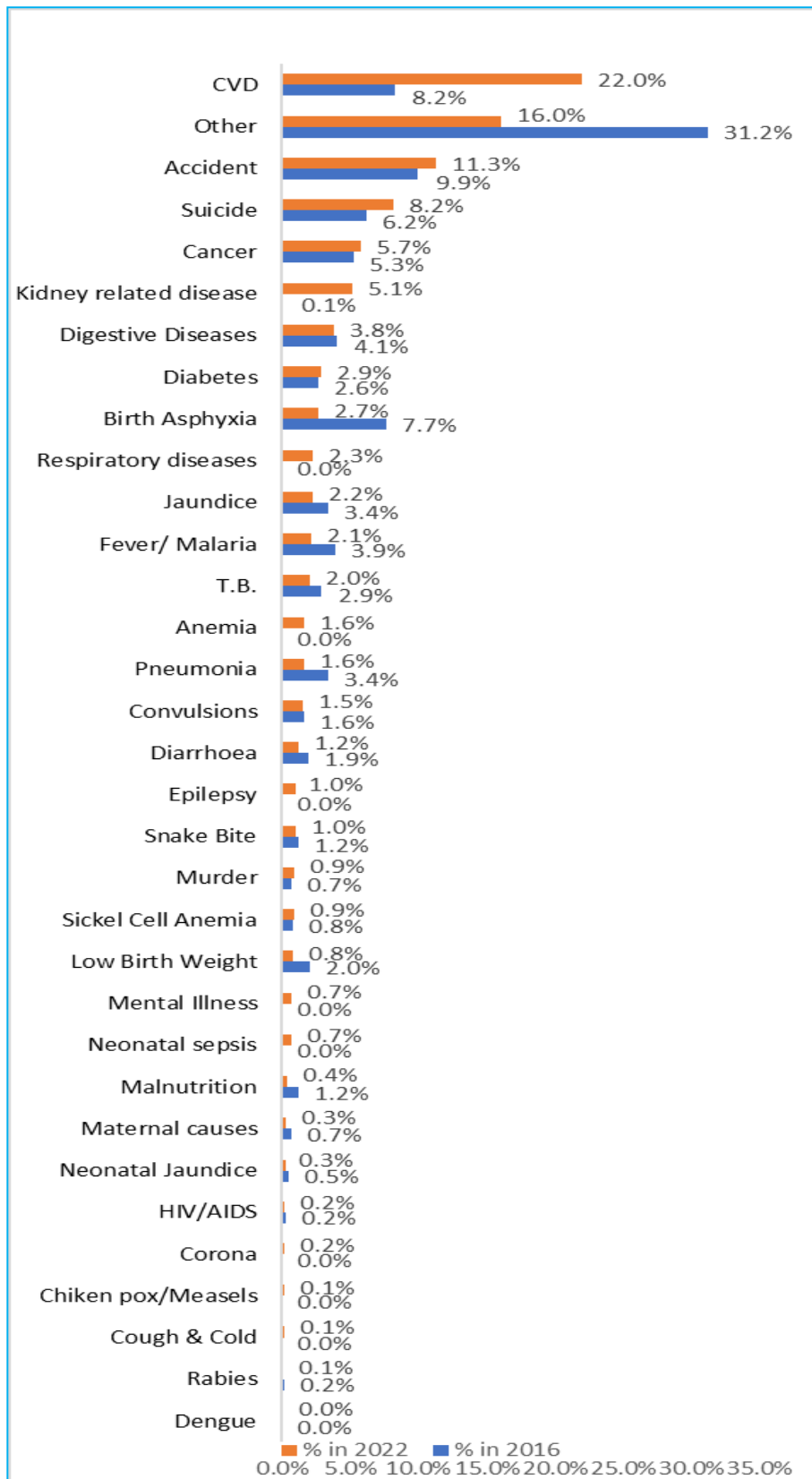
- For neonates aged 0 to 1 month, Birth Asphyxia, Sepsis, and Low Birth Weight (LBW) are the most commonly reported causes of death.
- Among infants aged 1 to 11 months, Pneumonia, Fever/Malaria, Convulsions, Malnutrition, and Congenital Heart Disease/anomalies are the predominant reported causes of death.
- In children aged 1 to 4 years, Accidents, Fever/Malaria, Pneumonia, Convulsions, and Diarrhea are the leading reported causes of death.
- For the 5 to 14-year age group, Accidents, Fever/Malaria, Snake bites, Digestive issues, and Jaundice are the principal reported causes of death.
- In the 15-49 year age group, Cardiovascular Disease (CVD), Accidents, Suicides, Cancer, Kidney-related diseases, Jaundice, and Diabetes emerge as the leading reported causes of death.
- Within the 50-59 year age group, CVD, Cancer, Accidents, Kidney-related diseases, Diabetes, Respiratory diseases, Suicide, and Tuberculosis stand out as the primary reported causes of death.
- Among individuals aged 60-69 years and 70 years and above, CVD, Cancer, Diabetes, Respiratory diseases, Kidney-related diseases, Accidents, and Digestive diseases are the predominant reported causes of death.

Figure 4. Classification of cause of death reported in 2022 (Rural & Urban Slum)



- **54% deaths reported as non-communicable diseases.**

Figure 5. Percentage of cause of death reported below 60 years age in 2016 Vs 2022 (Rural n=145181 and Urban Slum n=12228)



Key Observations and Recommendations:

- There has been a decrease in preventable mortality attributed to malaria/fever, diarrhea, and to some extent childhood pneumonia between 2016 and 2022.
- Although there has been a reduction in neonatal deaths caused by birth asphyxia, it remains a persistent challenge despite the expansion of services for maternal and newborn care.
- Overall, the state is confronted with significant challenges, particularly a high proportion of preventable deaths occurring in individuals under the age of 60 years due to accidents, suicides, and both chronic infectious and non-communicable diseases. The alarming upward trend in suicide rates in the state, which are now among the highest in the country, requires thorough investigation to comprehend the underlying causes in Chhattisgarh.
- The utilization of the VHSNC (Village Health Sanitation and Nutrition Committee) and MAS (Mahila Arogya Samiti) based community-system for recording and analysing deaths and their causes has proven to be invaluable. This data offers insights into mortality patterns among both rural and urban slum populations, thereby facilitating informed public health planning in Chhattisgarh.

For each death, VHSNCs also try to record the probable cause of death as reported by the community. This practice enables the community to monitor causes of mortality within the village. Moreover, the Death Register provides guidance on issues necessitating at various levels. Many of the actions require collective planning in the VHSNC. Many of these actions require collaborative planning within the VHSNC. For example, VHSNCs thoroughly discuss cases involving infant and maternal deaths, as well as deaths attributed to fever/malaria, diarrhea, and tuberculosis. This approach enables them to evaluate causes and potential remedies for preventable mortality in their respective villages.

As part of the Community Action on Health (CAH) initiative, records of deaths are utilized to conduct Community Audits of deaths.

Methodology

The death registers of VHSNCs are compiled and computerized into a state-level database by SHRC. This facilitates the analysis of deaths recorded by age, district, and cause.

When considering the causes of these deaths, it's essential to recognize that they are perceived and reported by the community during VHSNC meetings. Consequently, these definitions may not align precisely with the technical definitions outlined by the guidelines of the Health Ministry (MoHFW) or the International Classification of Diseases (ICD). Despite these definitional discrepancies, the information provided through VHSNC registers remains valuable for understanding the probable and approximate causes contributing to a significant portion of mortality in the state.

The proportion of the estimated deaths being reported through VHSNC

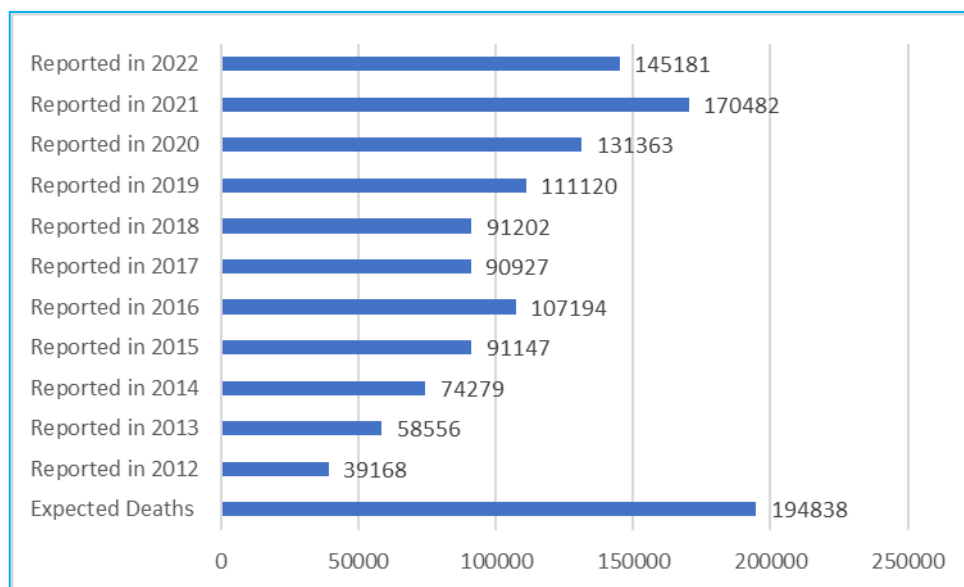
The deaths analysed in the report are those recorded by VHSNCs in their death registers, which are then compiled at the state level. There is a possibility that some of deaths were not reported by VHSNC or MAS or may have been missed in the state level computerisation.

The expected total rural deaths were estimated based on population data from the Statistical Department of the Government of Chhattisgarh and the Crude Death Rate for rural areas, as per the Sample Registration System (SRS) 2020. According to data compiled from VHSNCs for 2022 (January to December), 145181 deaths were documented.

In 2022, 75% of the total expected rural deaths were collected and compiled through the VHSNC systems. It's important to note that this information is not derived from a sampling process. Therefore, it's necessary to consider this aspect when interpreting the findings of the report. Additionally, it implies that the number of deaths attributed to any cause may be higher than reported here.

Similarly, for deaths categorized by age groups, the number of estimated deaths was calculated based on mortality figures provided by SRS 2020. This report covers only 35% of the expected neonatal deaths, 39% of post-neonatal infant deaths, and 15% of child deaths in the age group up to 4 years for rural areas. Similarly, it covers 44% of the likely total number of maternal deaths in rural areas. Since the expected death numbers are based on Statistical SRS 2020 data, any decline in these mortality rates has not been accounted for, potentially resulting in an inflated number of expected deaths in the aforementioned categories.

Figure-6 Year distribution of Community Reported deaths (expected Vs reported)



Chapter 2: Deaths due to Communicable, Maternal and Nutritional conditions in rural Chhattisgarh

2.1 Fever related Deaths:

VHSNCs have reported 2411 deaths due to fever during 2022.

S.N.	DISTRICT	PROJECTE D RURAL POPULATIO N 2022	TOTAL REPORTED DEATHS BY VHSNC IN 2022	NUMBER OF FEVER DEATHS REPORTED BY VHSNC IN 2022	% OF REPORTED DEATHS
1	BAALOD	685773	5859	137	2.3%
2	BALODABAZAAR	1115859	7161	116	1.6%
3	BALRAMPUR	660654	3510	35	1.0%
4	BASTAR	735340	4578	45	1.0%
5	BEMETARA	800121	5391	114	2.1%
6	BIJAPUR	209211	1562	4	0.3%
7	BILASPUR	1579744	6340	124	2.0%
8	DANTEWADA	247391	2300	15	0.7%
9	DHAMTARI	679971	5389	106	2.0%
10	DURG	1479452	5365	143	2.7%
11	GARIYABAND	523742	5298	87	1.6%
12	GOURELA PENDRA MARWAHI	294582	1932	29	1.5%
13	JANJGIR	877434	6317	130	2.1%
14	JASHPUR	731978	5398	41	0.8%
15	KANKER	645889	4600	63	1.4%
16	KAWARDHA	820279	5051	82	1.6%
17	KHARAGARH CHHUIKHADAN	328510	2643	58	2.2%
18	KONDAGAON	509109	4455	47	1.1%
19	KORBA	1072028	3659	68	1.9%
20	KORIA	209024	790	7	0.9%
21	MAHASAMUND	922438	7025	97	1.4%
22	MANENDRAGARH CHIRMIRI	347622	1145	15	1.3%
23	MOHLA MANPUR A.CHOUKI	253171	2524	35	1.4%
24	MUNGELI	692346	3096	50	1.6%
25	NARAYANPUR	122544	656	4	0.6%
26	RAIGARH	980731	8461	151	1.8%
27	RAIPUR	2069342	9344	181	1.9%
28	RAJNANDGAON	788849	5747	110	1.9%
29	SARGUJA	739551	3432	31	0.9%
30	SUKAMA	203940	1415	23	1.6%
31	SURAJPUR	702183	4378	61	1.4%
32	SAKTI	596277	5156	107	2.1%
33	SARANGARH-BILAIGARH	569915	5204	95	1.8%
	STATE AVERAGE	23195000	145181	2411	1.7%

Figure-7: Age distribution of deaths due to fever (n=2411): High in 15-49 years age group.

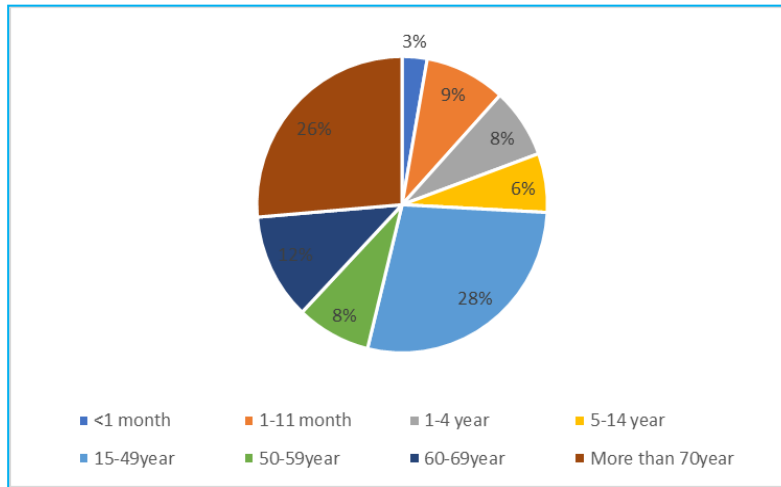


Figure-8: Gender distribution (n=2411): 51% of the reported deaths due to fever are of male persons

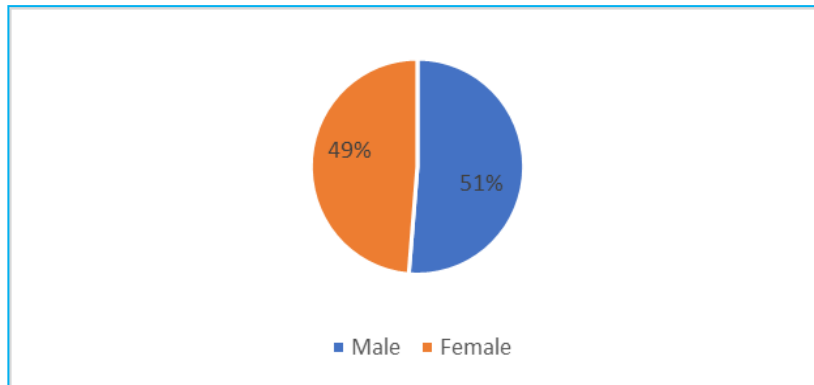
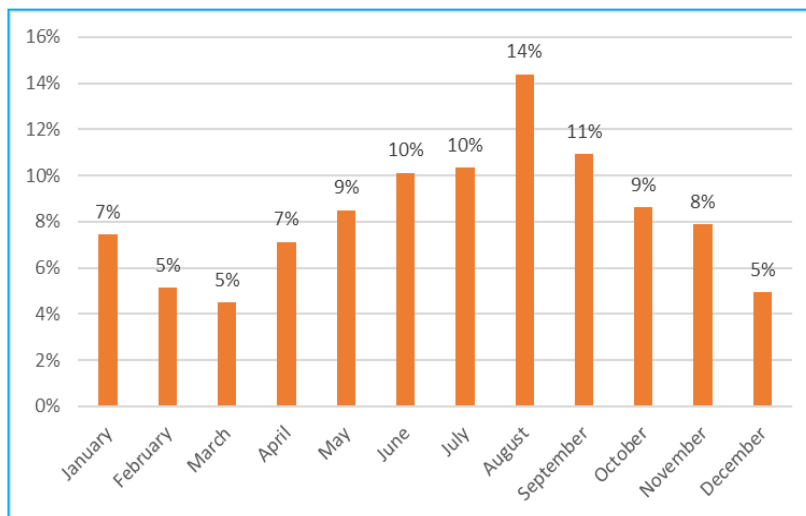


Figure-9: Seasonal trend in deaths due to Fever related deaths illness (n=2411). Higher rates in August 2022.



2.2 Deaths due to Pneumonia:

VHSNCs have reported 1172 deaths during 2022 for which the cause is recorded as pneumonia.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	51	0.9%
2	BALODABAZAAR	1115859	7161	68	0.9%
3	BALRAMPUR	660654	3510	23	0.7%
4	BASTAR	735340	4578	35	0.8%
5	BEMETARA	800121	5391	57	1.1%
6	BIJAPUR	209211	1562	10	0.6%
7	BILASPUR	1579744	6340	49	0.8%
8	DANTEWADA	247391	2300	6	0.3%
9	DHAMTARI	679971	5389	33	0.6%
10	DURG	1479452	5365	40	0.7%
11	GARIYABAND	523742	5298	32	0.6%
12	GPM	294582	1932	13	0.7%
13	JANJGIR	877434	6317	47	0.7%
14	JASHPUR	731978	5398	37	0.7%
15	KANKER	645889	4600	46	1.0%
16	KAWARDHA	820279	5051	39	0.8%
17	KCG	328510	2643	16	0.6%
18	KONDAGAON	509109	4455	47	1.1%
19	KORBA	1072028	3659	26	0.7%
20	KORIA	209024	790	11	1.4%
21	MAHASAMUND	922438	7025	65	0.9%
22	MCB	347622	1145	16	1.4%
23	MMA	253171	2524	16	0.6%
24	MUNGELI	692346	3096	29	0.9%
25	NARAYANPUR	122544	656	6	0.9%
26	RAIGARH	980731	8461	61	0.7%
27	RAIPUR	2069342	9344	102	1.1%
28	RAJNANDGAON	788849	5747	39	0.7%
29	SARGUJA	739551	3432	24	0.7%
30	SUKAMA	203940	1415	10	0.7%
31	SURAJPUR	702183	4378	40	0.9%
32	SAKTI	596277	5156	34	0.7%
33	SARANGARH- BILAIGARH	569915	5204	44	0.8%
State Average		23195000	145181	1172	0.8%

Figure-10: Age distribution of deaths due to pneumonia (n=1172): 83% deaths due to pneumonia are in under-5 years age group

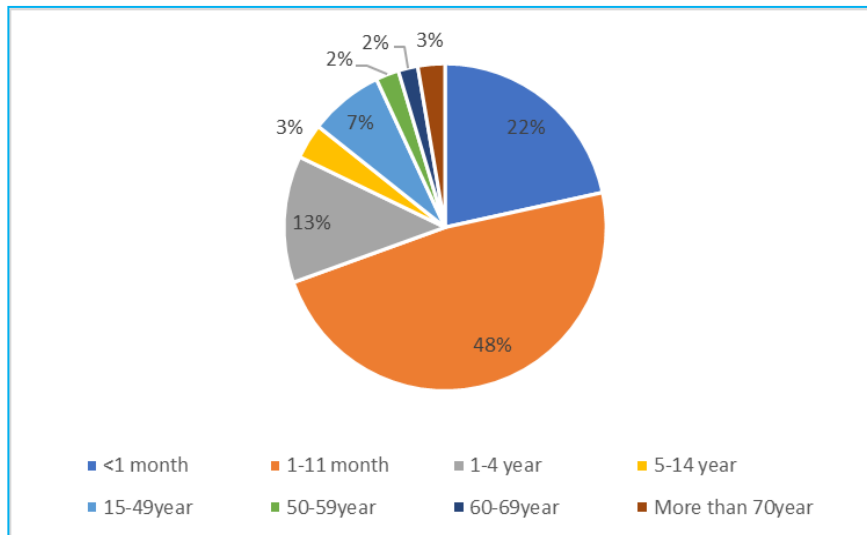


Figure-11: Gender distribution (n=1172): 51% of the deaths due to pneumonia are of male persons.

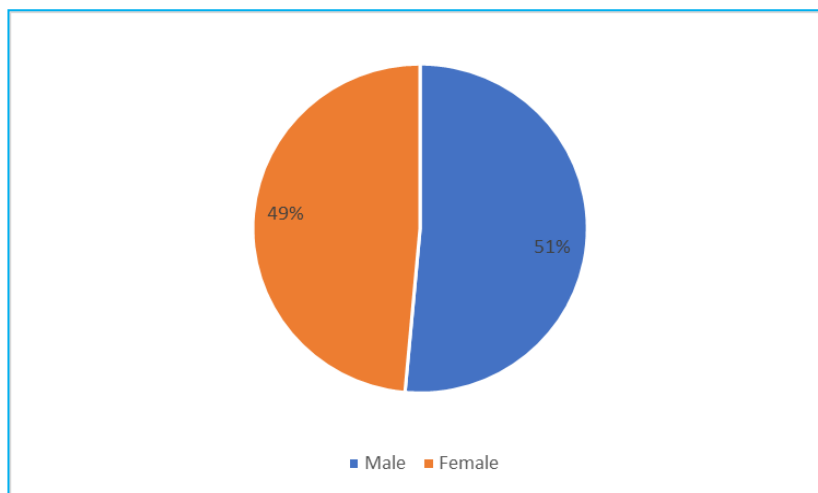
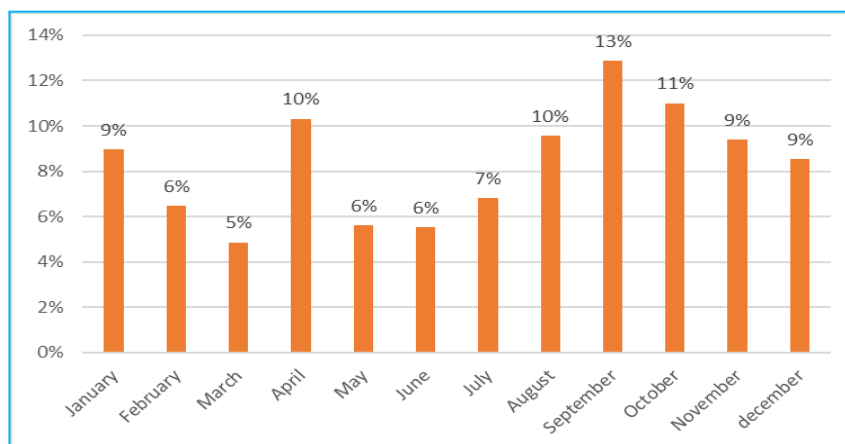


Figure-12: 13% of deaths due to pneumonia happened in September (n=1172).



2.3 Deaths due to Diarrhea:

VHSNCs have reported 1291 deaths during 2022 for which the cause is recorded as Diarrhea.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	15	0.3%
2	BALODABAZAAR	1115859	7161	58	0.8%
3	BALRAMPUR	660654	3510	58	1.7%
4	BASTAR	735340	4578	43	0.9%
5	BEMETARA	800121	5391	60	1.1%
6	BIJAPUR	209211	1562	34	2.2%
7	BILASPUR	1579744	6340	79	1.2%
8	DANTEWADA	247391	2300	37	1.6%
9	DHAMTARI	679971	5389	25	0.5%
10	DURG	1479452	5365	13	0.2%
11	GARIYABAND	523742	5298	64	1.2%
12	GPM	294582	1932	19	1.0%
13	JANJGIR	877434	6317	53	0.8%
14	JASHPUR	731978	5398	52	1.0%
15	KANKER	645889	4600	12	0.3%
16	KAWARDHA	820279	5051	45	0.9%
17	KCG	328510	2643	10	0.4%
18	KONDAGAON	509109	4455	21	0.5%
19	KORBA	1072028	3659	33	0.9%
20	KORIA	209024	790	16	2.0%
21	MAHASAMUND	922438	7025	41	0.6%
22	MCB	347622	1145	17	1.5%
23	MMA	253171	2524	17	0.7%
24	MUNGELI	692346	3096	21	0.7%
25	NARAYANPUR	122544	656	6	0.9%
26	RAIGARH	980731	8461	106	1.3%
27	RAIPUR	2069342	9344	118	1.3%
28	RAJNANDGAON	788849	5747	23	0.4%
29	SARGUJA	739551	3432	42	1.2%
30	SUKAMA	203940	1415	20	1.4%
31	SURAJPUR	702183	4378	22	0.5%
32	SAKTI	596277	5156	47	0.9%
33	SARANGARH- BILAIGARH	569915	5204	64	1.2%
State Average		23195000	145181	1291	0.9%

Figure-13: Age distribution of deaths due to Diarrhea (n=1291): 27% of these deaths are in 15-49 year age group.

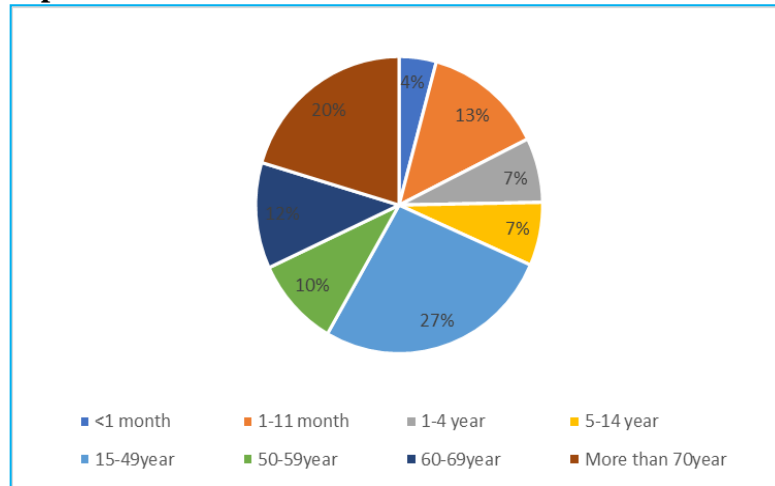


Figure-14: Gender distribution (n=1291): 53% of the deaths due to Diarrhea are of male persons

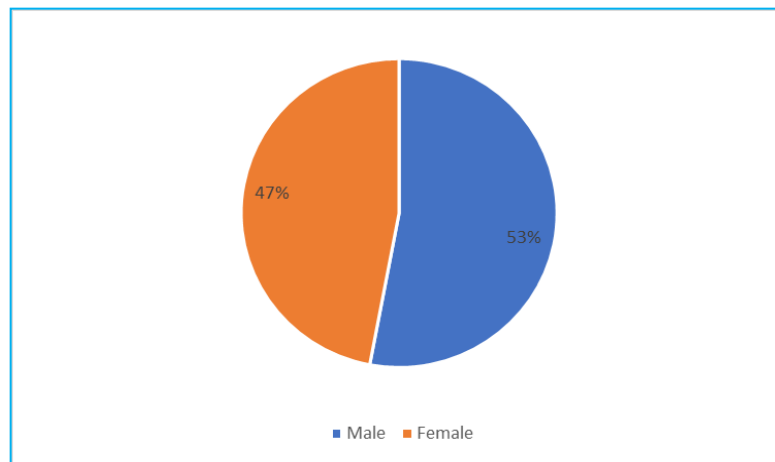
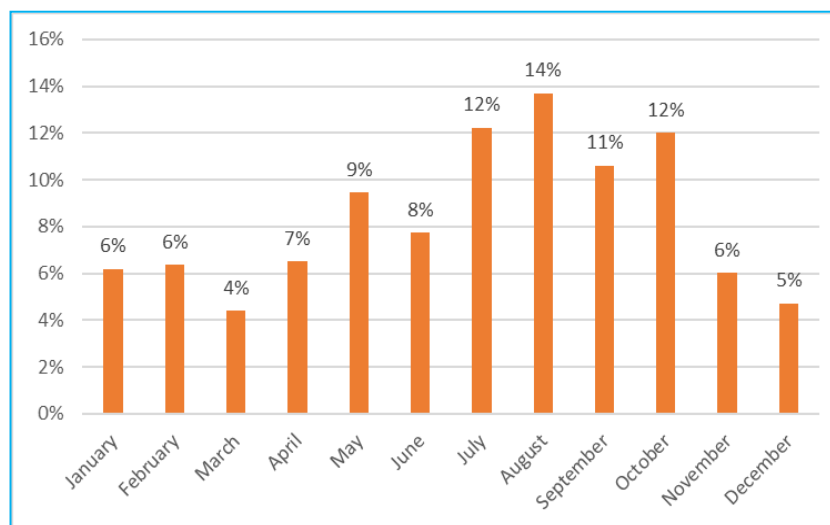


Figure-15: The number of deaths per month is slightly higher in August (n=1291).



2.4 Deaths due to TB:

VHSNCs have reported 2211 deaths during 2022 for which the cause is recorded as TB.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	55	0.9%
2	BALODABAZAAR	1115859	7161	99	1.4%
3	BALRAMPUR	660654	3510	55	1.6%
4	BASTAR	735340	4578	102	2.2%
5	BEMETARA	800121	5391	50	0.9%
6	BIJAPUR	209211	1562	46	2.9%
7	BILASPUR	1579744	6340	67	1.1%
8	DANTEWADA	247391	2300	65	2.8%
9	DHAMTARI	679971	5389	83	1.5%
10	DURG	1479452	5365	60	1.1%
11	GARIYABAND	523742	5298	113	2.1%
12	GPM	294582	1932	45	2.3%
13	JANJGIR	877434	6317	45	0.7%
14	JASHPUR	731978	5398	79	1.5%
15	KANKER	645889	4600	102	2.2%
16	KAWARDHA	820279	5051	68	1.3%
17	KCG	328510	2643	34	1.3%
18	KONDAGAON	509109	4455	75	1.7%
19	KORBA	1072028	3659	47	1.3%
20	KORIA	209024	790	18	2.3%
21	MAHASAMUND	922438	7025	94	1.3%
22	MCB	347622	1145	16	1.4%
23	MMA	253171	2524	34	1.3%
24	MUNGELI	692346	3096	51	1.6%
25	NARAYANPUR	122544	656	20	3.0%
26	RAIGARH	980731	8461	217	2.6%
27	RAIPUR	2069342	9344	138	1.5%
28	RAJNANDGAON	788849	5747	65	1.1%
29	SARGUJA	739551	3432	47	1.4%
30	SUKAMA	203940	1415	67	4.7%
31	SURAJPUR	702183	4378	38	0.9%
32	SAKTI	596277	5156	57	1.1%
33	SARANGARH-BILAIGARH	569915	5204	59	1.1%
State Average		23195000	145181	2211	1.5%

Figure-16: Age distribution of deaths due to TB (n=2211): 40% of these deaths are in 15-49 year age group.

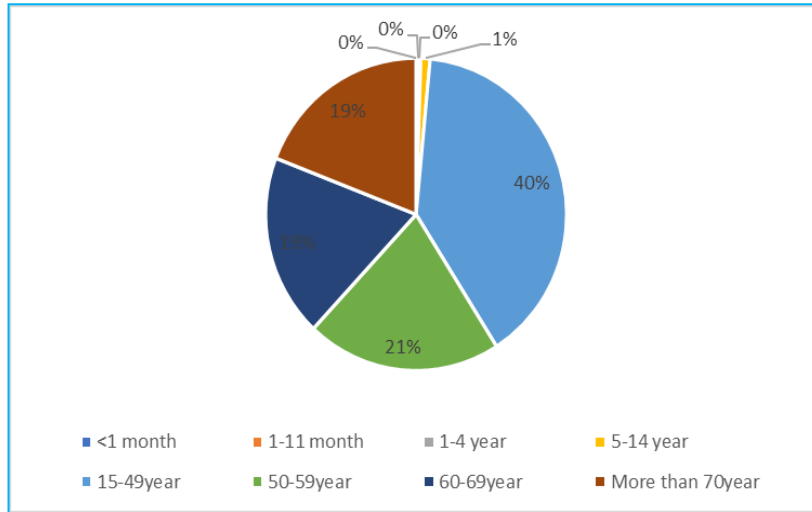


Figure-17: Gender distribution (n=2211): 73% of the deaths due to TB are of male persons.

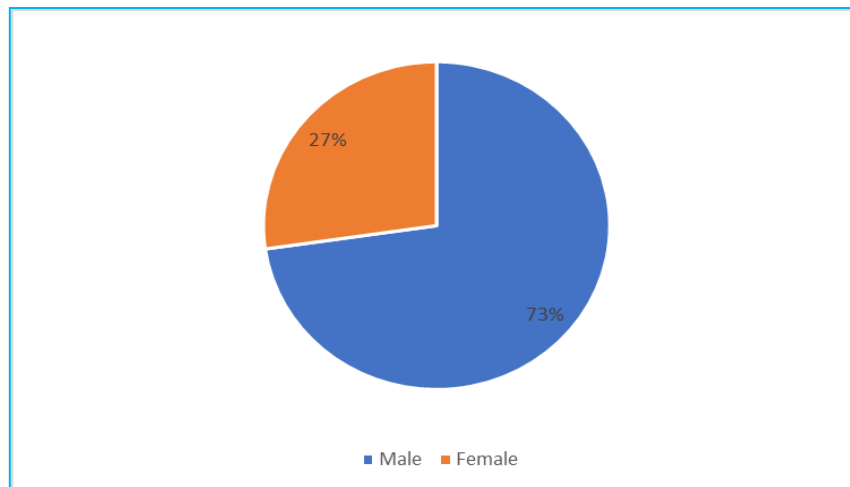
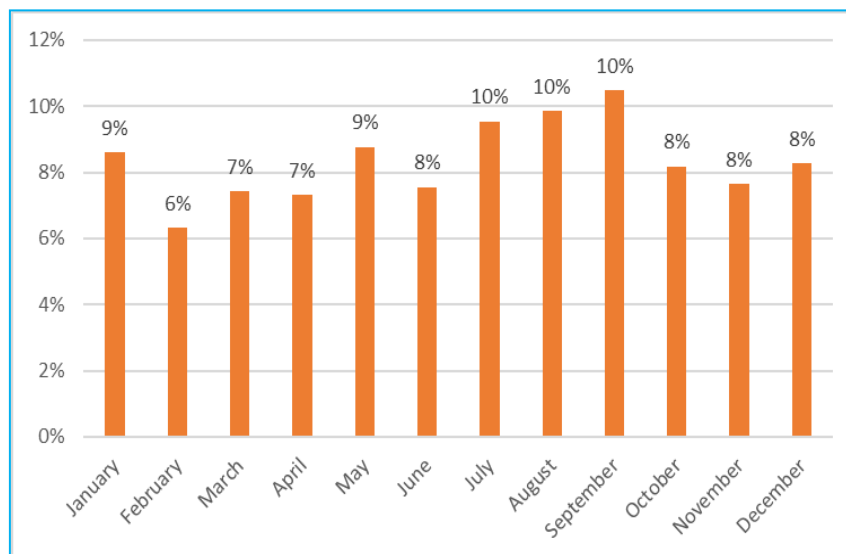


Figure-18: There is no seasonal pattern in TB deaths (n=2211).



2.5 Pregnant women deaths (14-49 yrs) reported:

VHSNCs have reported 329 deaths during 2022 for which the cause is recorded as pregnant women death.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	1	0.0%
2	BALODABAZAAR	1115859	7161	15	0.2%
3	BALRAMPUR	660654	3510	24	0.7%
4	BASTAR	735340	4578	27	0.6%
5	BEMETARA	800121	5391	9	0.2%
6	BIJAPUR	209211	1562	5	0.3%
7	BILASPUR	1579744	6340	16	0.3%
8	DANTEWADA	247391	2300	6	0.3%
9	DHAMTARI	679971	5389	6	0.1%
10	DURG	1479452	5365	10	0.2%
11	GARIYABAND	523742	5298	12	0.2%
12	GPM	294582	1932	15	0.8%
13	JANJGIR	877434	6317	20	0.3%
14	JASHPUR	731978	5398	7	0.1%
15	KANKER	645889	4600	7	0.2%
16	KAWARDHA	820279	5051	4	0.1%
17	KCG	328510	2643	2	0.1%
18	KONDAGAON	509109	4455	29	0.7%
19	KORBA	1072028	3659	8	0.2%
20	KORIA	209024	790	4	0.5%
21	MAHASAMUND	922438	7025	11	0.2%
22	MCB	347622	1145	2	0.2%
23	MMA	253171	2524	1	0.0%
24	MUNGELI	692346	3096	10	0.3%
25	NARAYANPUR	122544	656	0	0.0%
26	RAIGARH	980731	8461	28	0.3%
27	RAIPUR	2069342	9344	13	0.1%
28	RAJNANDGAON	788849	5747	5	0.1%
29	SARGUJA	739551	3432	3	0.1%
30	SUKAMA	203940	1415	1	0.1%
31	SURAJPUR	702183	4378	9	0.2%
32	SAKTI	596277	5156	7	0.1%
33	SARANGARH- BILAIGARH	569915	5204	12	0.2%
State Average		23195000	145181	329	0.2%

Figure-19: The number of deaths per month is slightly higher in June (n=329).

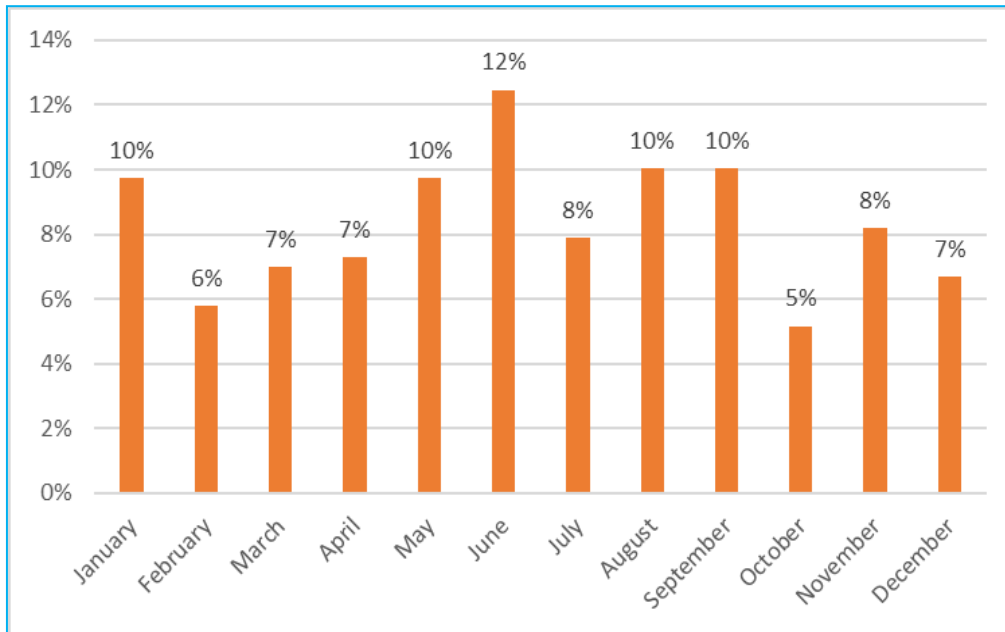
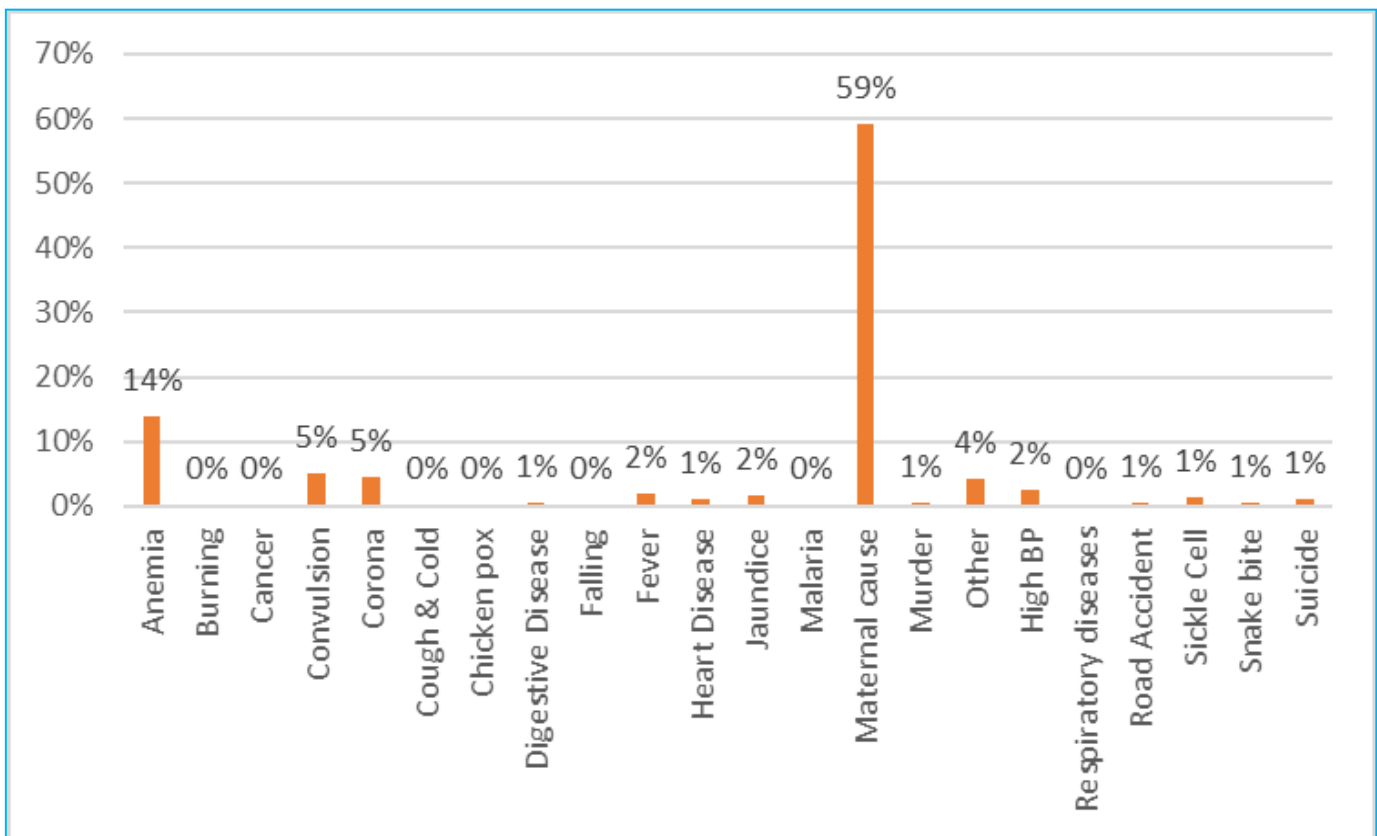


Figure-20: 59% deaths due to maternal cause and 14% deaths due to Anemia (n=329)



2.6 Deaths due to Jaundice (including Neonatal Jaundice):

VHSNCs have reported 2092 deaths during 2022 for which the cause is recorded as jaundice.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	56	1.0%
2	BALODABAZAAR	1115859	7161	120	1.7%
3	BALRAMPUR	660654	3510	59	1.7%
4	BASTAR	735340	4578	82	1.8%
5	BEMETARA	800121	5391	59	1.1%
6	BIJAPUR	209211	1562	18	1.2%
7	BILASPUR	1579744	6340	102	1.6%
8	DANTEWADA	247391	2300	36	1.6%
9	DHAMTARI	679971	5389	91	1.7%
10	DURG	1479452	5365	55	1.0%
11	GARIYABAND	523742	5298	88	1.7%
12	GPM	294582	1932	14	0.7%
13	JANJGIR	877434	6317	96	1.5%
14	JASHPUR	731978	5398	103	1.9%
15	KANKER	645889	4600	71	1.5%
16	KAWARDHA	820279	5051	72	1.4%
17	KCG	328510	2643	43	1.6%
18	KONDAGAON	509109	4455	73	1.6%
19	KORBA	1072028	3659	40	1.1%
20	KORIA	209024	790	7	0.9%
21	MAHASAMUND	922438	7025	89	1.3%
22	MCB	347622	1145	17	1.5%
23	MMA	253171	2524	45	1.8%
24	MUNGELI	692346	3096	55	1.8%
25	NARAYANPUR	122544	656	7	1.1%
26	RAIGARH	980731	8461	125	1.5%
27	RAIPUR	2069342	9344	126	1.3%
28	RAJNANDGAON	788849	5747	74	1.3%
29	SARGUJA	739551	3432	52	1.5%
30	SUKAMA	203940	1415	13	0.9%
31	SURAJPUR	702183	4378	52	1.2%
32	SAKTI	596277	5156	71	1.4%
33	SARANGARH-BILAIGARH	569915	5204	81	1.6%
State Average		23195000	145181	2092	1.4%

Figure-21: Age distribution of deaths due to Jaundice (n=2092): 52% of these deaths are in 15-49 year age group. Deaths due to neonatal jaundice are also large in number.

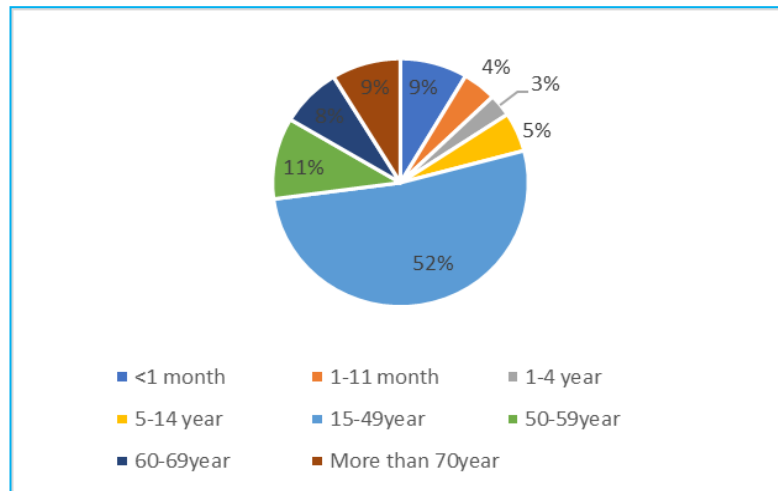


Figure-22: Gender distribution (n=2092): 61% of the deaths due to jaundice are of males

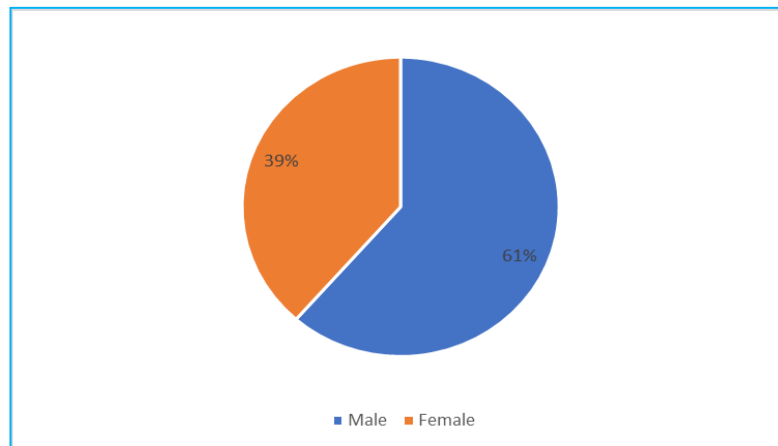
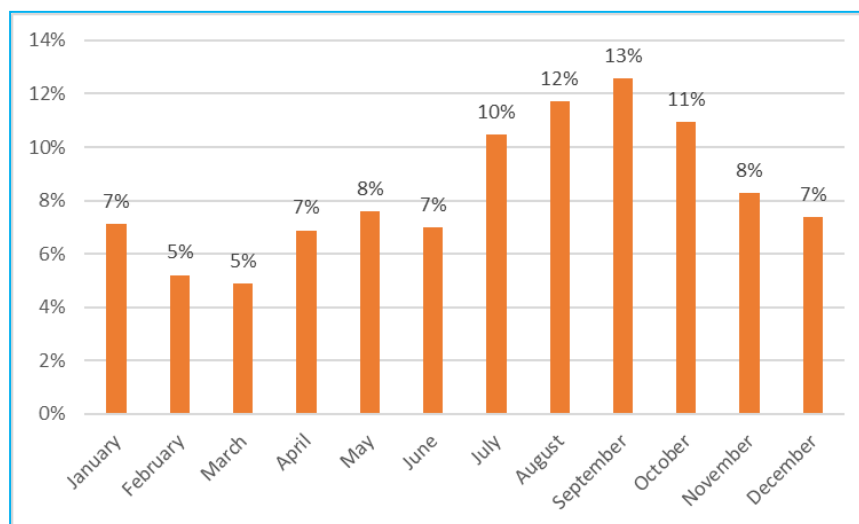


Figure-23: The number of deaths per month is slightly higher in September (n=2092).



2.7 Deaths due to Malnutrition and Low Birth Weight:

VHSNCs have reported 859 deaths during 2022 for which the cause is recorded as malnutrition.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	18	0.3%
2	BALODABAZAAR	1115859	7161	36	0.5%
3	BALRAMPUR	660654	3510	39	1.1%
4	BASTAR	735340	4578	47	1.0%
5	BEMETARA	800121	5391	30	0.6%
6	BIJAPUR	209211	1562	4	0.3%
7	BILASPUR	1579744	6340	27	0.4%
8	DANTEWADA	247391	2300	24	1.0%
9	DHAMTARI	679971	5389	20	0.4%
10	DURG	1479452	5365	28	0.5%
11	GARIYABAND	523742	5298	42	0.8%
12	GPM	294582	1932	18	0.9%
13	JANJGIR	877434	6317	12	0.2%
14	JASHPUR	731978	5398	33	0.6%
15	KANKER	645889	4600	24	0.5%
16	KAWARDHA	820279	5051	57	1.1%
17	KCG	328510	2643	13	0.5%
18	KONDAGAON	509109	4455	26	0.6%
19	KORBA	1072028	3659	18	0.5%
20	KORIA	209024	790	4	0.5%
21	MAHASAMUND	922438	7025	21	0.3%
22	MCB	347622	1145	7	0.6%
23	MMA	253171	2524	20	0.8%
24	MUNGELI	692346	3096	26	0.8%
25	NARAYANPUR	122544	656	7	1.1%
26	RAIGARH	980731	8461	91	1.1%
27	RAIPUR	2069342	9344	61	0.7%
28	RAJNANDGAON	788849	5747	21	0.4%
29	SARGUJA	739551	3432	20	0.6%
30	SUKAMA	203940	1415	12	0.8%
31	SURAJPUR	702183	4378	19	0.4%
32	SAKTI	596277	5156	18	0.3%
33	SARANGARH- BILAIGARH	569915	5204	16	0.3%
State Average		23195000	145181	859	0.6%

Figure-24: Age distribution of deaths due to malnutrition (n=859): The deaths due to low birth weights are concentrated amongst newborn as 58% of these deaths are in below 1 month age group. Deaths due to malnutrition are high in the 1month-1 year age group

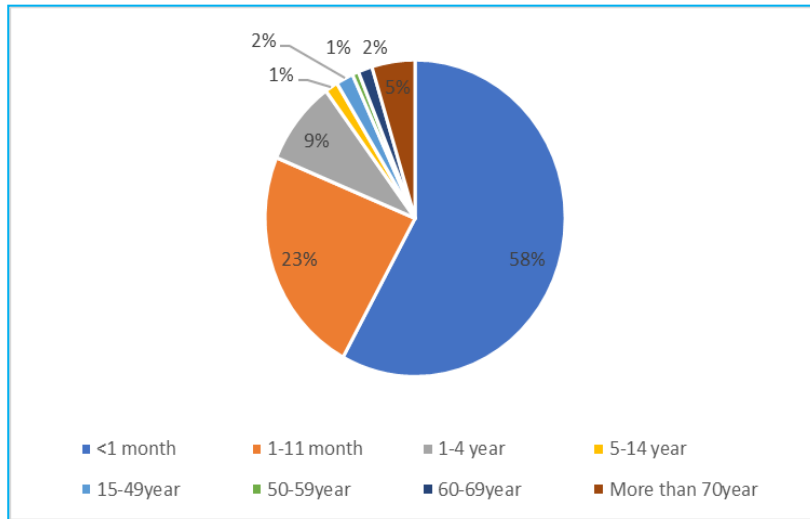


Figure-25: Gender distribution (n=859): 51% of the deaths due to low birth weight and malnutrition are male.

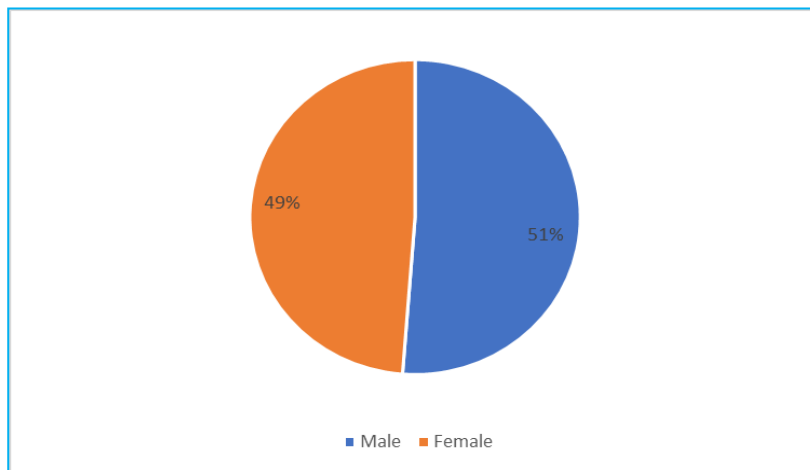
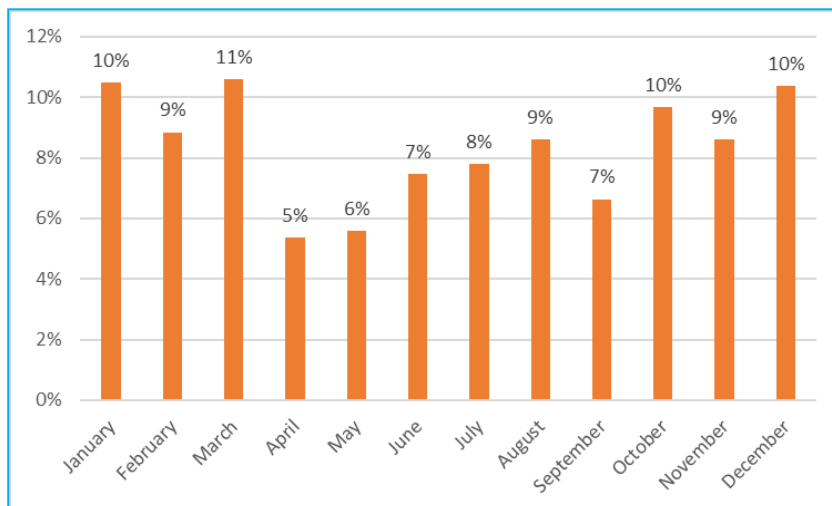


Figure-26: The number of deaths per month is slightly higher in March (n=859).



2.8 Deaths due to Anemia:

VHSNCs have reported 2035 deaths during 2022 for which the cause is recorded as Anemia.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	28	0.5%
2	BALODABAZAAR	1115859	7161	27	0.4%
3	BALRAMPUR	660654	3510	93	2.6%
4	BASTAR	735340	4578	56	1.2%
5	BEMETARA	800121	5391	21	0.4%
6	BIJAPUR	209211	1562	61	3.9%
7	BILASPUR	1579744	6340	38	0.6%
8	DANTEWADA	247391	2300	83	3.6%
9	DHAMTARI	679971	5389	96	1.8%
10	DURG	1479452	5365	66	1.2%
11	GARIYABAND	523742	5298	128	2.4%
12	GPM	294582	1932	27	1.4%
13	JANJGIR	877434	6317	29	0.5%
14	JASHPUR	731978	5398	92	1.7%
15	KANKER	645889	4600	154	3.3%
16	KAWARDHA	820279	5051	34	0.7%
17	KCG	328510	2643	18	0.7%
18	KONDAGAON	509109	4455	126	2.8%
19	KORBA	1072028	3659	39	1.1%
20	KORIA	209024	790	10	1.3%
21	MAHASAMUND	922438	7025	74	1.1%
22	MCB	347622	1145	9	0.8%
23	MMA	253171	2524	46	1.8%
24	MUNGELI	692346	3096	15	0.5%
25	NARAYANPUR	122544	656	24	3.7%
26	RAIGARH	980731	8461	169	2.0%
27	RAIPUR	2069342	9344	46	0.5%
28	RAJNANDGAON	788849	5747	29	0.5%
29	SARGUJA	739551	3432	51	1.5%
30	SUKAMA	203940	1415	173	12.2%
31	SURAJPUR	702183	4378	63	1.4%
32	SAKTI	596277	5156	25	0.5%
33	SARANGARH- BILAIGARH	569915	5204	85	1.6%
State Average		23195000	145181	2035	1.4%

Figure-27: Age distribution of deaths due to anemia (n=2035): 39% of these deaths are in 15-49 year age group.

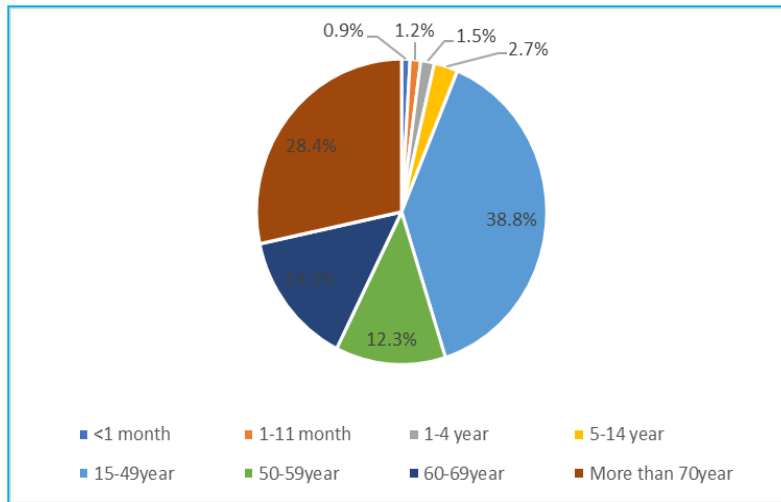


Figure-28: Gender distribution (n=2035): 57% of the deaths are of female persons.

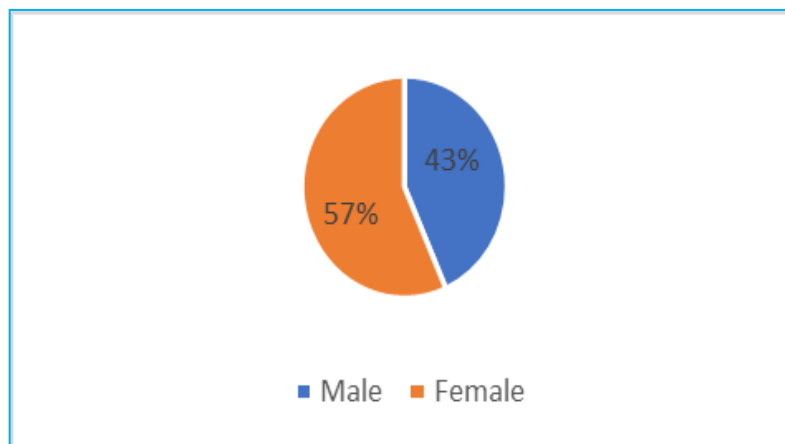
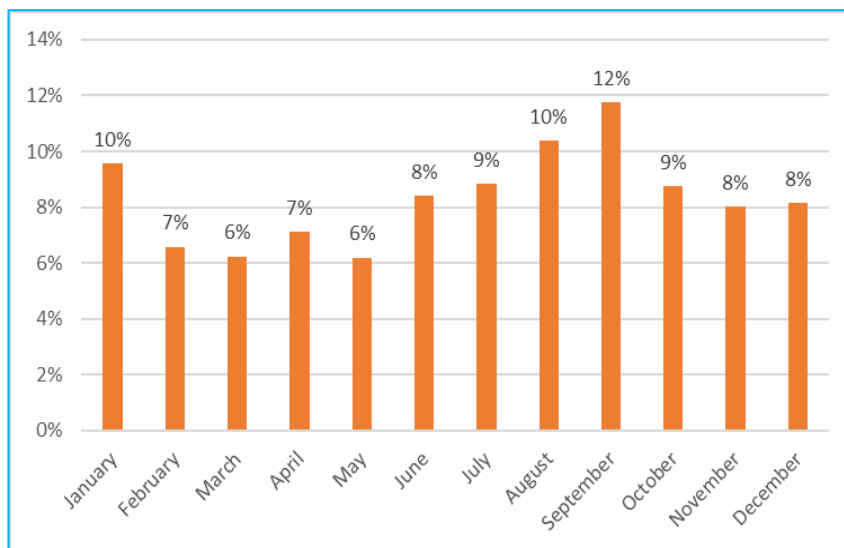


Figure-29: The numbers of deaths are relatively highest in September (n=2035).



Chapter 3: Deaths reported as Non-Communicable Diseases in Rural Chhattisgarh

3.1 Deaths due to Cardiovascular diseases (including CHD & anomalies):

VHSNCs have reported 47391 deaths during 2022 for which the cause is recorded as High BP, Stroke and Heart Disease (including congenital heart disease & anomalies).

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	2240	38.2%
2	BALODABAZAAR	1115859	7161	2235	31.2%
3	BALRAMPUR	660654	3510	1003	28.6%
4	BASTAR	735340	4578	1273	27.8%
5	BEMETARA	800121	5391	1668	30.9%
6	BIJAPUR	209211	1562	201	12.9%
7	BILASPUR	1579744	6340	2480	39.1%
8	DANTEWADA	247391	2300	175	7.6%
9	DHAMTARI	679971	5389	1892	35.1%
10	DURG	1479452	5365	2255	42.0%
11	GARIYABAND	523742	5298	1398	26.4%
12	GPM	294582	1932	477	24.7%
13	JANJGIR	877434	6317	2498	39.5%
14	JASHPUR	731978	5398	1314	24.3%
15	KANKER	645889	4600	1271	27.6%
16	KAWARDHA	820279	5051	1707	33.8%
17	KCG	328510	2643	1106	41.8%
18	KONDAGAON	509109	4455	1051	23.6%
19	KORBA	1072028	3659	1076	29.4%
20	KORIA	209024	790	228	28.9%
21	MAHASAMUND	922438	7025	2124	30.2%
22	MCB	347622	1145	296	25.9%
23	MMA	253171	2524	963	38.2%
24	MUNGELI	692346	3096	1304	42.1%
25	NARAYANPUR	122544	656	132	20.1%
26	RAIGARH	980731	8461	2806	33.2%
27	RAIPUR	2069342	9344	3539	37.9%
28	RAJNANDGAON	788849	5747	1996	34.7%
29	SARGUJA	739551	3432	928	27.0%
30	SUKAMA	203940	1415	208	14.7%
31	SURAJPUR	702183	4378	1370	31.3%
32	SAKTI	596277	5156	2075	40.2%
33	SARANGARH-BILAIGARH	569915	5204	2102	40.4%
State Average		23195000	145181	47391	32.6%

Figure-30: Age distribution of deaths due to CVD (n=47391): 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.

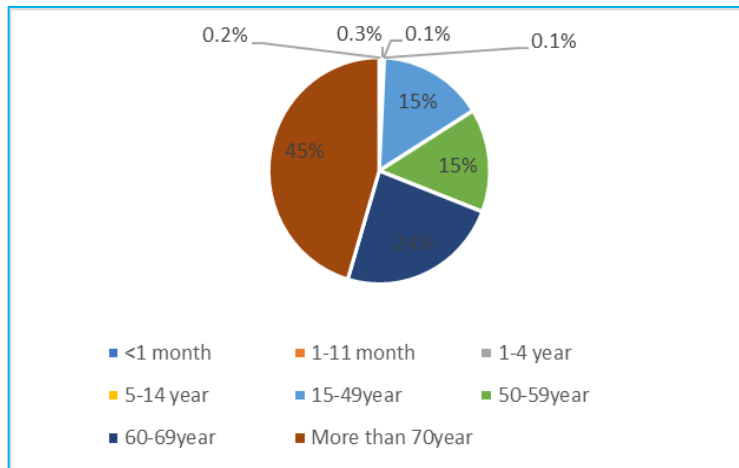


Figure-31: Age distribution (n=47391): 58% of the deaths are of male persons.

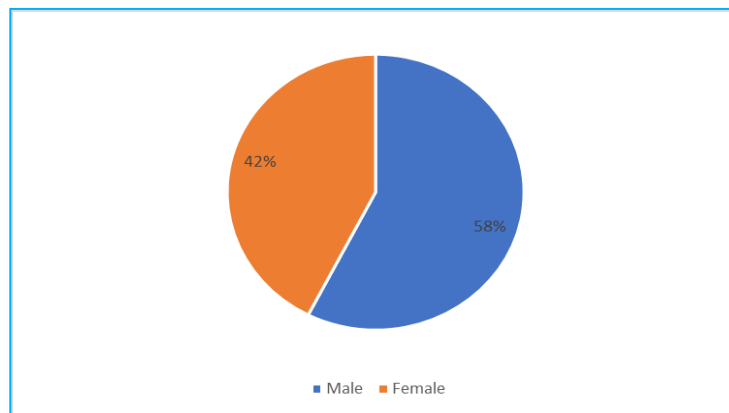
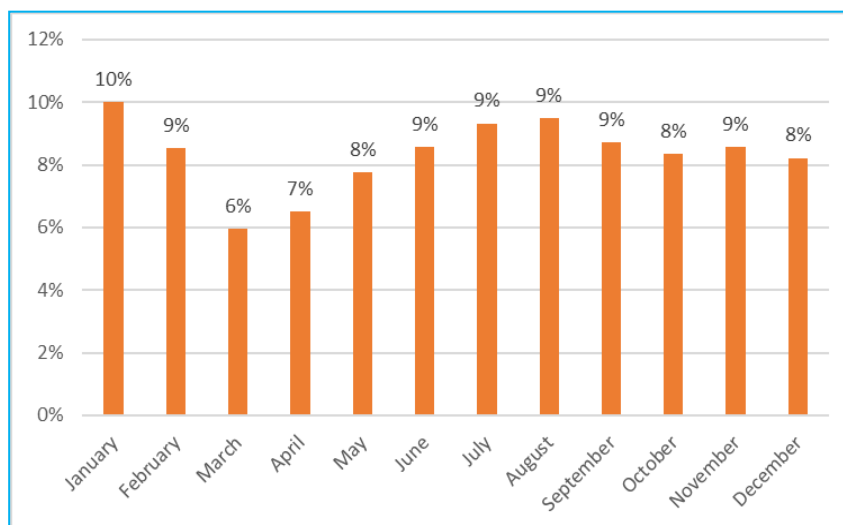


Figure-32: The number of deaths per month is highest in January (n=47391).



3.2 Deaths due to Cancer:

VHSNCs have reported 6529 deaths during 2022 for which the cause is recorded as Cancer.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	297	5.1%
2	BALODABAZAAR	1115859	7161	355	5.0%
3	BALRAMPUR	660654	3510	144	4.1%
4	BASTAR	735340	4578	153	3.3%
5	BEMETARA	800121	5391	331	6.1%
6	BIJAPUR	209211	1562	37	2.4%
7	BILASPUR	1579744	6340	309	4.9%
8	DANTEWADA	247391	2300	22	1.0%
9	DHAMTARI	679971	5389	194	3.6%
10	DURG	1479452	5365	302	5.6%
11	GARIYABAND	523742	5298	212	4.0%
12	GPM	294582	1932	79	4.1%
13	JANJGIR	877434	6317	301	4.8%
14	JASHPUR	731978	5398	190	3.5%
15	KANKER	645889	4600	156	3.4%
16	KAWARDHA	820279	5051	296	5.9%
17	KCG	328510	2643	147	5.6%
18	KONDAGAON	509109	4455	150	3.4%
19	KORBA	1072028	3659	167	4.6%
20	KORIA	209024	790	60	7.6%
21	MAHASAMUND	922438	7025	277	3.9%
22	MCB	347622	1145	58	5.1%
23	MMA	253171	2524	98	3.9%
24	MUNGELI	692346	3096	174	5.6%
25	NARAYANPUR	122544	656	32	4.9%
26	RAIGARH	980731	8461	396	4.7%
27	RAIPUR	2069342	9344	466	5.0%
28	RAJNANDGAON	788849	5747	295	5.1%
29	SARGUJA	739551	3432	147	4.3%
30	SUKAMA	203940	1415	33	2.3%
31	SURAJPUR	702183	4378	231	5.3%
32	SAKTI	596277	5156	187	3.6%
33	SARANGARH-BILAIGARH	569915	5204	233	4.5%
State Average		23195000	145181	6529	4.5%

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

Figure-33: Age distribution of deaths due to cancer (n=6529): 34% of these deaths are in 15–59-year age group.

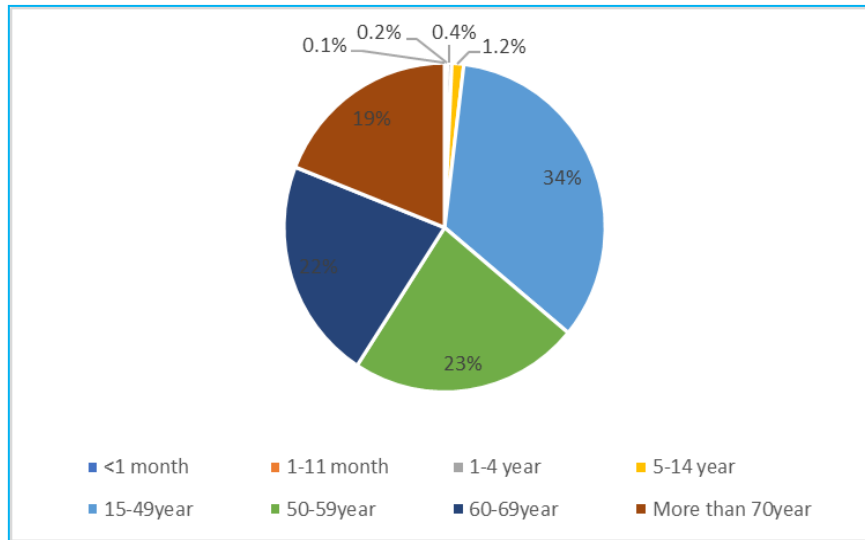


Figure-34: Gender distribution of deaths due to cancer (n=6529): 50% of the deaths are of male and 50% of the deaths are of female persons.

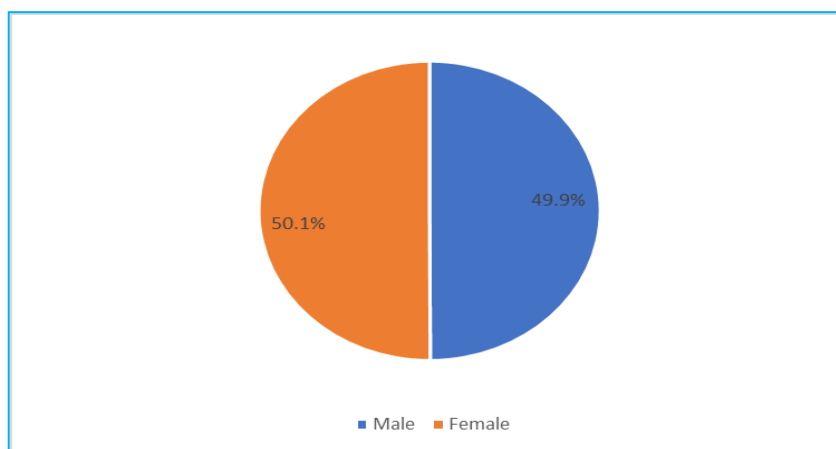
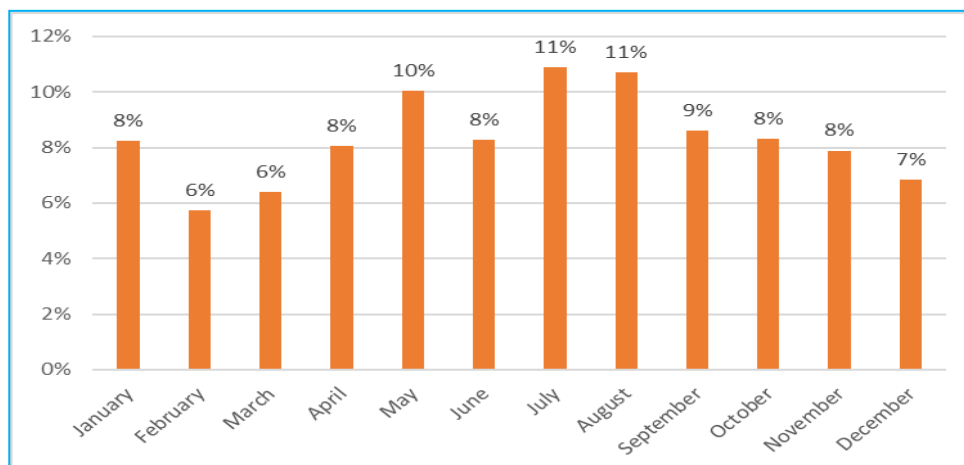


Figure-35: The number of deaths per month does not have an obvious seasonal pattern (n=6529).



3.3 Deaths due to Diabetes:

VHSNCs have reported 5277 deaths during 2022 for which the cause is recorded as Diabetes.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	256	4.4%
2	BALODABAZAAR	1115859	7161	223	3.1%
3	BALRAMPUR	660654	3510	93	2.6%
4	BASTAR	735340	4578	138	3.0%
5	BEMETARA	800121	5391	164	3.0%
6	BIJAPUR	209211	1562	34	2.2%
7	BILASPUR	1579744	6340	203	3.2%
8	DANTEWADA	247391	2300	24	1.0%
9	DHAMTARI	679971	5389	262	4.9%
10	DURG	1479452	5365	183	3.4%
11	GARIYABAND	523742	5298	168	3.2%
12	GPM	294582	1932	82	4.2%
13	JANJGIR	877434	6317	195	3.1%
14	JASHPUR	731978	5398	169	3.1%
15	KANKER	645889	4600	303	6.6%
16	KAWARDHA	820279	5051	183	3.6%
17	KCG	328510	2643	114	4.3%
18	KONDAGAON	509109	4455	153	3.4%
19	KORBA	1072028	3659	123	3.4%
20	KORIA	209024	790	28	3.5%
21	MAHASAMUND	922438	7025	316	4.5%
22	MCB	347622	1145	49	4.3%
23	MMA	253171	2524	113	4.5%
24	MUNGELI	692346	3096	147	4.7%
25	NARAYANPUR	122544	656	33	5.0%
26	RAIGARH	980731	8461	279	3.3%
27	RAIPUR	2069342	9344	360	3.9%
28	RAJNANDGAON	788849	5747	211	3.7%
29	SARGUJA	739551	3432	115	3.4%
30	SUKAMA	203940	1415	14	1.0%
31	SURAJPUR	702183	4378	181	4.1%
32	SAKTI	596277	5156	143	2.8%
33	SARANGARH- BILAIGARH	569915	5204	218	4.2%
State Average		23195000	145181	5277	3.6%

Figure-36: Age distribution of deaths due to diabetes (n=5277): 62% of these deaths are in 60 years and above groups.

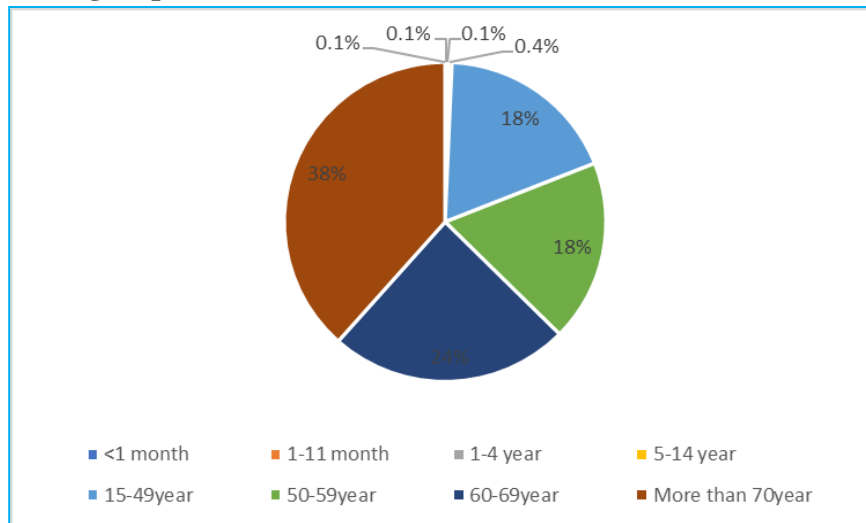


Figure-37: Gender distribution (n=5277): 57% of the reported deaths are of male persons.

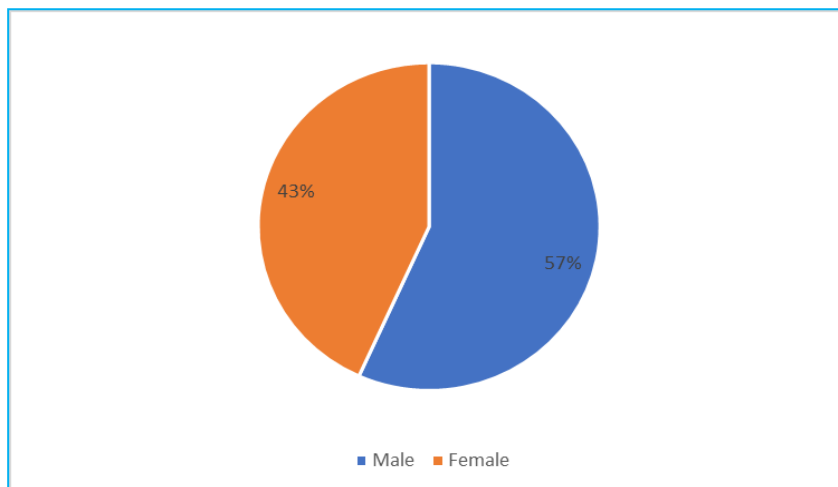
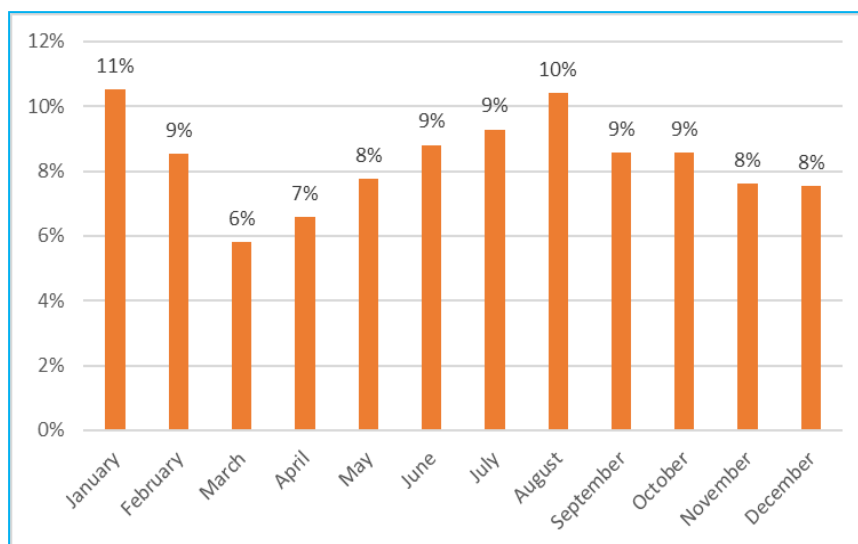


Figure-38: The number of deaths per month is slightly higher in January (n=5277).



3.4 Deaths due to Digestive Disease:

VHSNCs have reported 4333 deaths during 2022 for which the cause is recorded as Digestive disease.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	77	1.3%
2	BALODABAZAAR	1115859	7161	190	2.7%
3	BALRAMPUR	660654	3510	178	5.1%
4	BASTAR	735340	4578	222	4.8%
5	BEMETARA	800121	5391	111	2.1%
6	BIJAPUR	209211	1562	84	5.4%
7	BILASPUR	1579744	6340	148	2.3%
8	DANTEWADA	247391	2300	103	4.5%
9	DHAMTARI	679971	5389	120	2.2%
10	DURG	1479452	5365	115	2.1%
11	GARIYABAND	523742	5298	122	2.3%
12	GPM	294582	1932	89	4.6%
13	JANJGIR	877434	6317	152	2.4%
14	JASHPUR	731978	5398	174	3.2%
15	KANKER	645889	4600	148	3.2%
16	KAWARDHA	820279	5051	126	2.5%
17	KCG	328510	2643	65	2.5%
18	KONDAGAON	509109	4455	269	6.0%
19	KORBA	1072028	3659	124	3.4%
20	KORIA	209024	790	35	4.4%
21	MAHASAMUND	922438	7025	113	1.6%
22	MCB	347622	1145	68	5.9%
23	MMA	253171	2524	75	3.0%
24	MUNGELI	692346	3096	86	2.8%
25	NARAYANPUR	122544	656	41	6.3%
26	RAIGARH	980731	8461	341	4.0%
27	RAIPUR	2069342	9344	204	2.2%
28	RAJNANDGAON	788849	5747	112	1.9%
29	SARGUJA	739551	3432	179	5.2%
30	SUKAMA	203940	1415	56	4.0%
31	SURAJPUR	702183	4378	176	4.0%
32	SAKTI	596277	5156	129	2.5%
33	SARANGARH-BILAIGARH	569915	5204	101	1.9%
State Average		23195000	145181	4333	3.0%

Figure-39: Age distribution of deaths due to digestive disease (n=4333): 34% of these deaths are in 15-49 year age group.

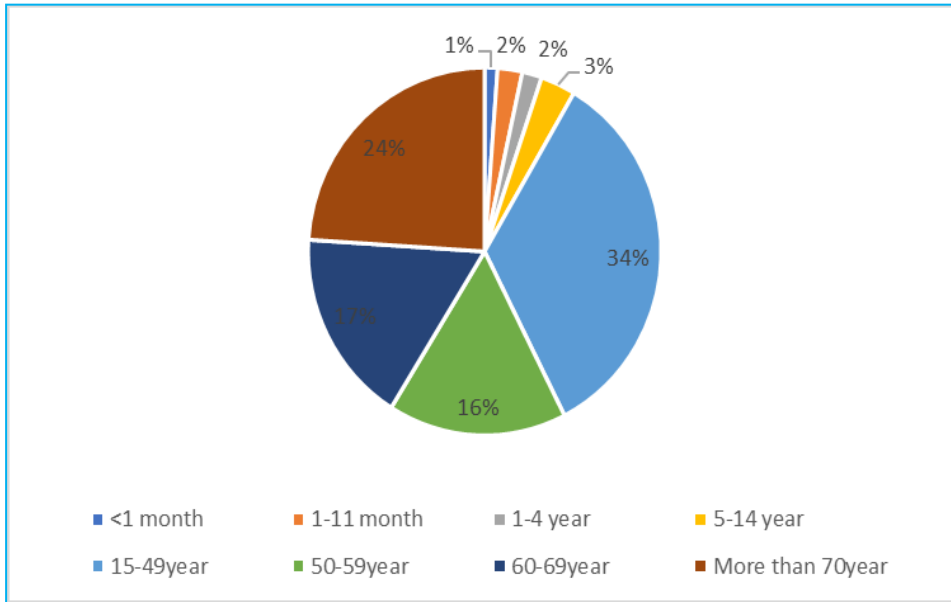


Figure-40: Gender distribution (n=4333): 63% of the deaths are of male persons.

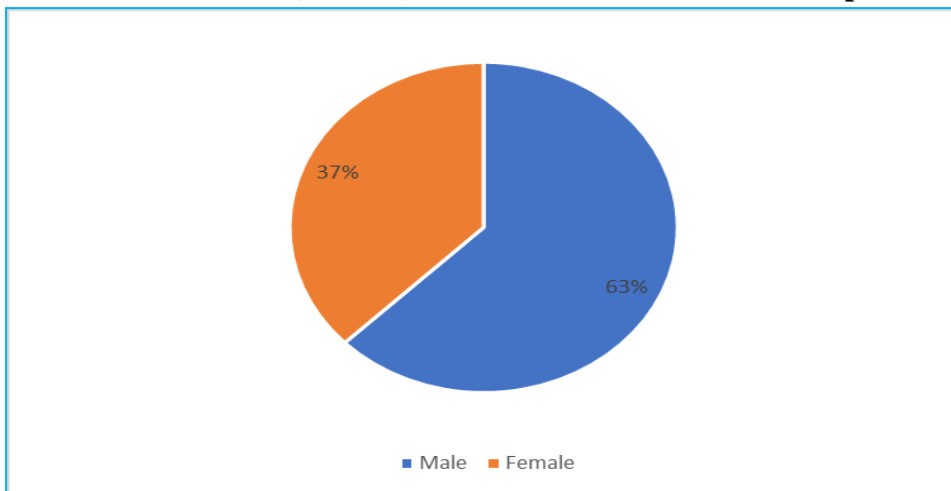
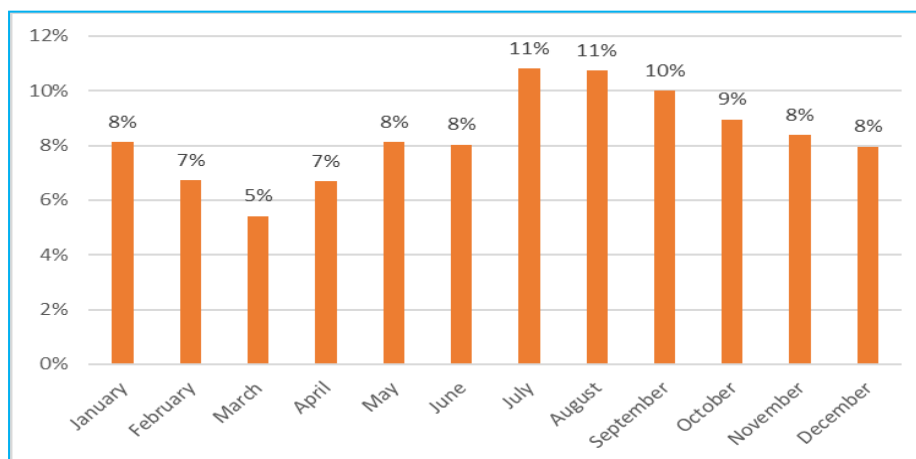


Figure-41: The numbers of deaths are relatively higher during July to August (n=4333).



3.5 Deaths due to Respiratory diseases:

VHSNCs have reported 5488 deaths during 2022 for which the cause is recorded as respiratory disease.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	201	3.4%
2	BALODABAZAAR	1115859	7161	242	3.4%
3	BALRAMPUR	660654	3510	82	2.3%
4	BASTAR	735340	4578	92	2.0%
5	BEMETARA	800121	5391	180	3.3%
6	BIJAPUR	209211	1562	61	3.9%
7	BILASPUR	1579744	6340	260	4.1%
8	DANTEWADA	247391	2300	25	1.1%
9	DHAMTARI	679971	5389	438	8.1%
10	DURG	1479452	5365	369	6.9%
11	GARIYABAND	523742	5298	279	5.3%
12	GPM	294582	1932	37	1.9%
13	JANJGIR	877434	6317	288	4.6%
14	JASHPUR	731978	5398	51	0.9%
15	KANKER	645889	4600	147	3.2%
16	KAWARDHA	820279	5051	158	3.1%
17	KCG	328510	2643	158	6.0%
18	KONDAGAON	509109	4455	116	2.6%
19	KORBA	1072028	3659	125	3.4%
20	KORIA	209024	790	28	3.5%
21	MAHASAMUND	922438	7025	399	5.7%
22	MCB	347622	1145	36	3.1%
23	MMA	253171	2524	96	3.8%
24	MUNGELI	692346	3096	107	3.5%
25	NARAYANPUR	122544	656	19	2.9%
26	RAIGARH	980731	8461	215	2.5%
27	RAIPUR	2069342	9344	460	4.9%
28	RAJNANDGAON	788849	5747	238	4.1%
29	SARGUJA	739551	3432	57	1.7%
30	SUKAMA	203940	1415	24	1.7%
31	SURAJPUR	702183	4378	112	2.6%
32	SAKTI	596277	5156	205	4.0%
33	SARANGARH- BILAIGARH	569915	5204	183	3.5%
State Average		23195000	145181	5488	3.8%

Figure-42: Age distribution of deaths due to respiratory diseases (n=5488): 54% of these deaths are in above 70 year age group.

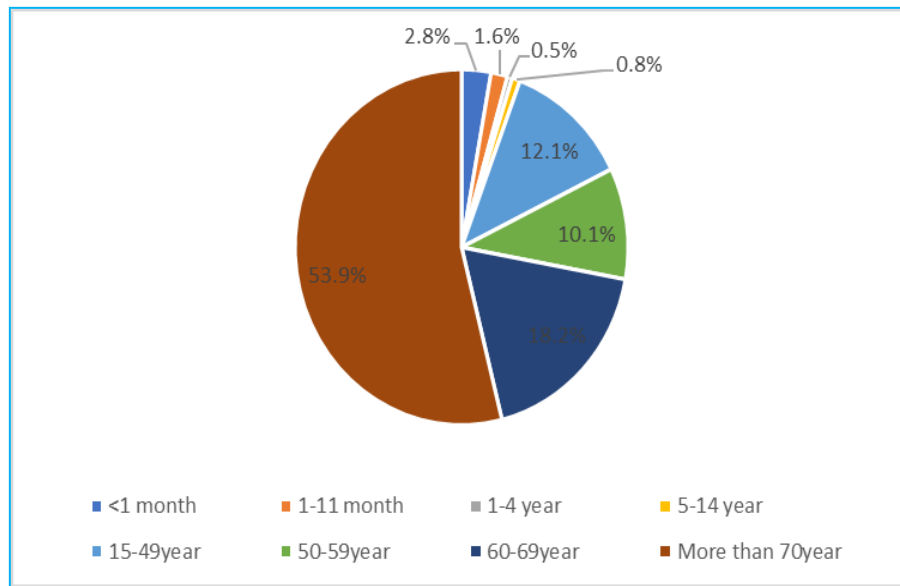


Figure-43: Gender distribution (n=5488): 57% of the deaths are of male persons.

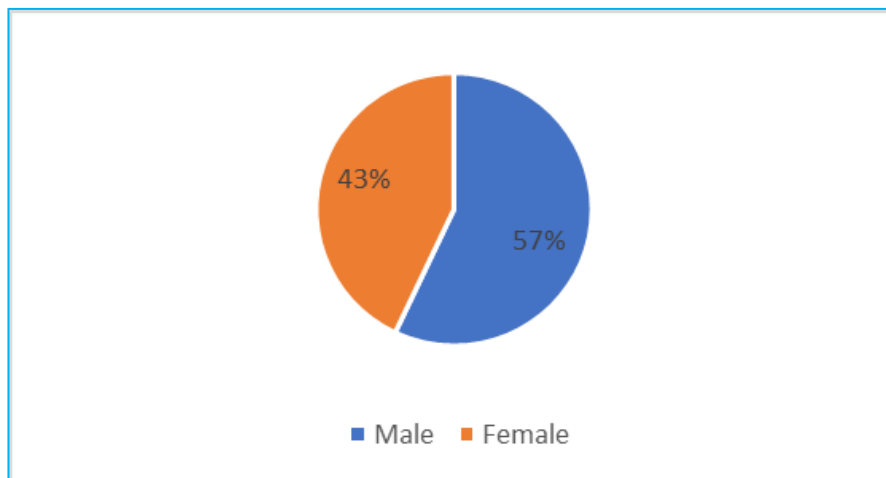
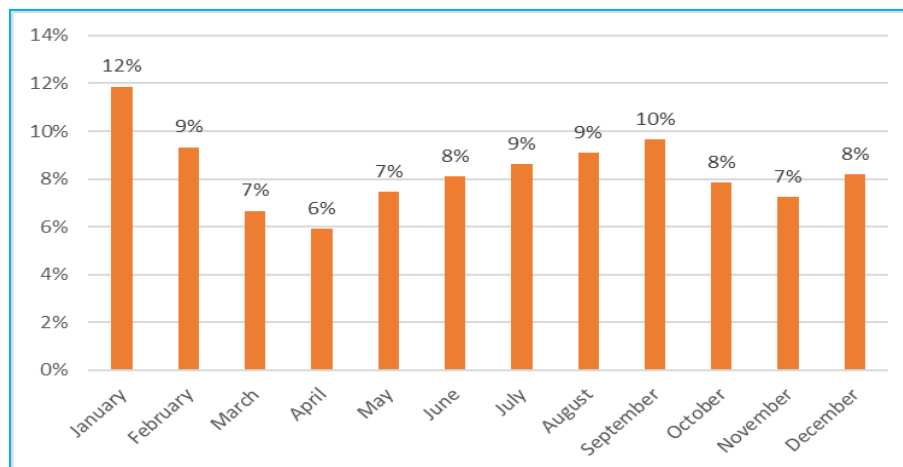


Figure-44: The numbers of deaths are relatively higher in January (n=5488)



3.6 Deaths due to Kidney related diseases:

VHSNCs have reported 5203 deaths during 2022 for which the cause is recorded as Kidney related disease.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	175	3.0%
2	BALODABAZAAR	1115859	7161	181	2.5%
3	BALRAMPUR	660654	3510	100	2.8%
4	BASTAR	735340	4578	95	2.1%
5	BEMETARA	800121	5391	118	2.2%
6	BIJAPUR	209211	1562	77	4.9%
7	BILASPUR	1579744	6340	180	2.8%
8	DANTEWADA	247391	2300	49	2.1%
9	DHAMTARI	679971	5389	189	3.5%
10	DURG	1479452	5365	165	3.1%
11	GARIYABAND	523742	5298	222	4.2%
12	GPM	294582	1932	65	3.4%
13	JANJGIR	877434	6317	203	3.2%
14	JASHPUR	731978	5398	246	4.6%
15	KANKER	645889	4600	330	7.2%
16	KAWARDHA	820279	5051	107	2.1%
17	KCG	328510	2643	77	2.9%
18	KONDAGAON	509109	4455	118	2.6%
19	KORBA	1072028	3659	134	3.7%
20	KORIA	209024	790	22	2.8%
21	MAHASAMUND	922438	7025	342	4.9%
22	MCB	347622	1145	29	2.5%
23	MMA	253171	2524	149	5.9%
24	MUNGELI	692346	3096	69	2.2%
25	NARAYANPUR	122544	656	31	4.7%
26	RAIGARH	980731	8461	370	4.4%
27	RAIPUR	2069342	9344	399	4.3%
28	RAJNANDGAON	788849	5747	219	3.8%
29	SARGUJA	739551	3432	148	4.3%
30	SUKAMA	203940	1415	38	2.7%
31	SURAJPUR	702183	4378	138	3.2%
32	SAKTI	596277	5156	184	3.6%
33	SARANGARH- BILAIGARH	569915	5204	234	4.5%
State Average		23195000	145181	5203	3.6%

Figure-45: Age distribution of deaths due to kidney related diseases (n=5203): 40% of these deaths are in 15-49 year age group.

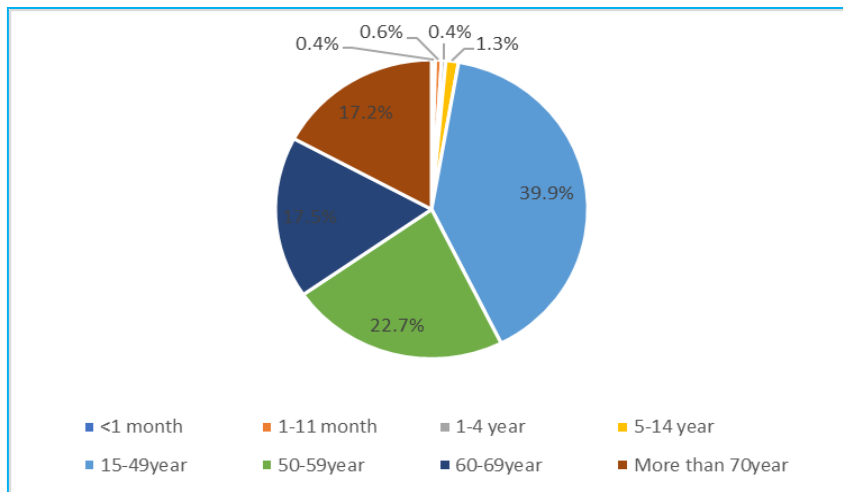


Figure-46: Gender distribution (n=5203): 70% of the deaths are of male persons.

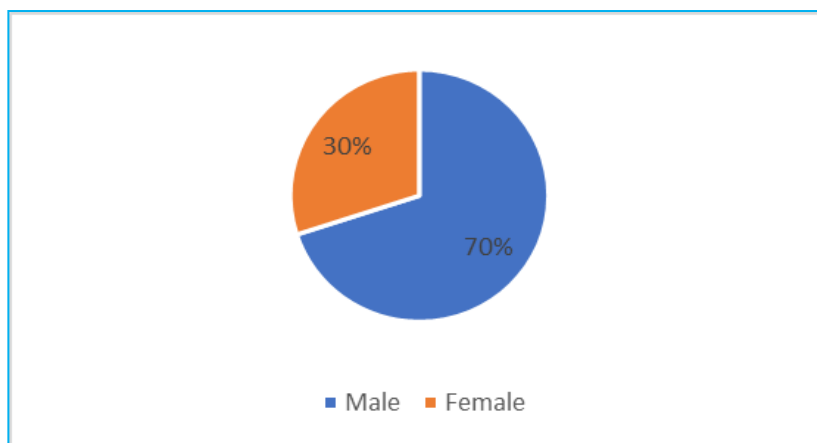
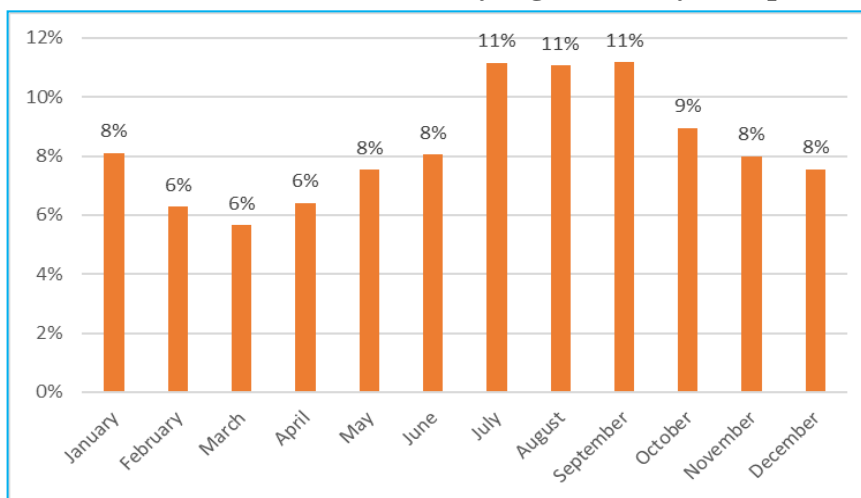


Figure-47: The numbers of deaths are relatively higher in July to September (n=5203).



3.7 Deaths due to Sickle Cell Anemia:

VHSNCs have reported 689 deaths during 2022 for which the cause is recorded as Sickle Cell Anemia.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	27	0.5%
2	BALODABAZAAR	1115859	7161	34	0.5%
3	BALRAMPUR	660654	3510	17	0.5%
4	BASTAR	735340	4578	24	0.5%
5	BEMETARA	800121	5391	12	0.2%
6	BIJAPUR	209211	1562	2	0.1%
7	BILASPUR	1579744	6340	20	0.3%
8	DANTEWADA	247391	2300	10	0.4%
9	DHAMTARI	679971	5389	19	0.4%
10	DURG	1479452	5365	21	0.4%
11	GARIYABAND	523742	5298	59	1.1%
12	GPM	294582	1932	2	0.1%
13	JANJGIR	877434	6317	31	0.5%
14	JASHPUR	731978	5398	11	0.2%
15	KANKER	645889	4600	12	0.3%
16	KAWARDHA	820279	5051	22	0.4%
17	KCG	328510	2643	5	0.2%
18	KONDAGAON	509109	4455	12	0.3%
19	KORBA	1072028	3659	25	0.7%
20	KORIA	209024	790	1	0.1%
21	MAHASAMUND	922438	7025	46	0.7%
22	MCB	347622	1145	1	0.1%
23	MMA	253171	2524	13	0.5%
24	MUNGELI	692346	3096	8	0.3%
25	NARAYANPUR	122544	656	1	0.2%
26	RAIGARH	980731	8461	54	0.6%
27	RAIPUR	2069342	9344	51	0.5%
28	RAJNANDGAON	788849	5747	21	0.4%
29	SARGUJA	739551	3432	25	0.7%
30	SUKAMA	203940	1415	4	0.3%
31	SURAJPUR	702183	4378	31	0.7%
32	SAKTI	596277	5156	24	0.5%
33	SARANGARH-BILAIGARH	569915	5204	44	0.8%
State Average		23195000	145181	689	0.5%

Figure-48: Age distribution of deaths due to sickle cell disease (n=689): 66% of these deaths are in 15-49 year age group and 17% 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.

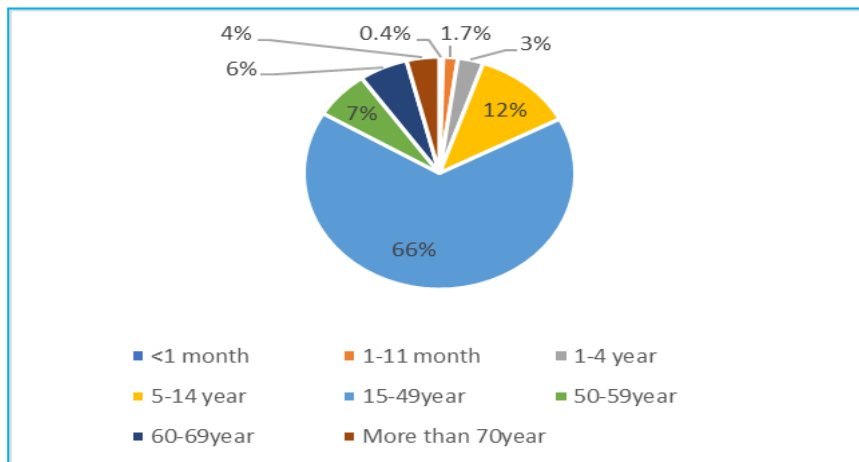


Figure-49: Gender distribution (n=689): 57% of the deaths are of female persons.

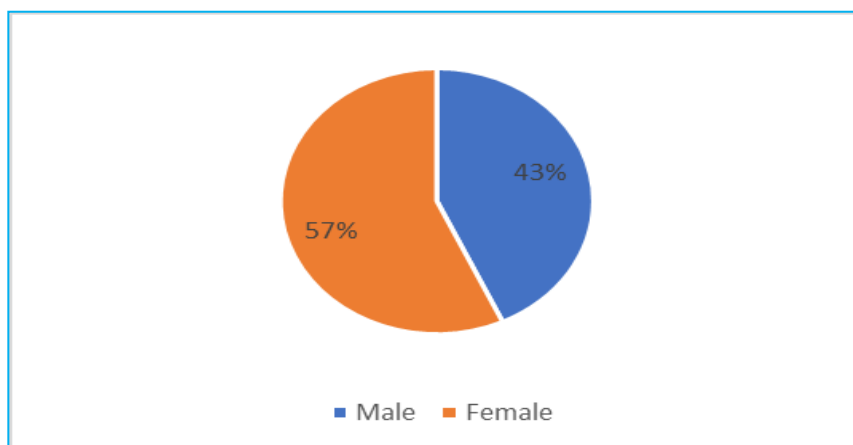
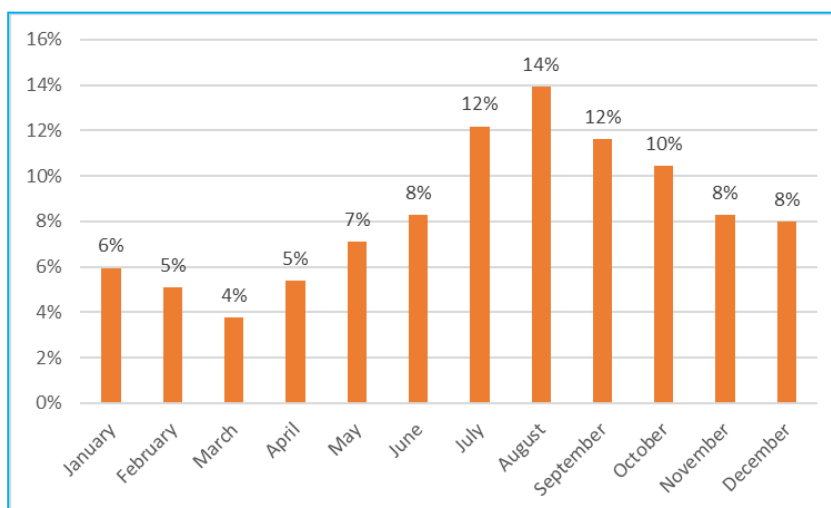


Figure-50: The numbers of deaths are relatively highest in August (n=689).



Chapter 4: Death due to Injuries in rural Chhattisgarh – Accidents, Suicides, Murder, Snake-bite

4.1 Deaths due to Accident:

VHSNCs have reported 10019 deaths during 2022 for which the cause is recorded as accident.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	296	5.1%
2	BALODABAZAAR	1115859	7161	455	6.4%
3	BALRAMPUR	660654	3510	344	9.8%
4	BASTAR	735340	4578	334	7.3%
5	BEMETARA	800121	5391	422	7.8%
6	BIJAPUR	209211	1562	119	7.6%
7	BILASPUR	1579744	6340	487	7.7%
8	DANTEWADA	247391	2300	132	5.7%
9	DHAMTARI	679971	5389	299	5.5%
10	DURG	1479452	5365	313	5.8%
11	GARIYABAND	523742	5298	237	4.5%
12	GPM	294582	1932	113	5.8%
13	JANJGIR	877434	6317	433	6.9%
14	JASHPUR	731978	5398	410	7.6%
15	KANKER	645889	4600	314	6.8%
16	KAWARDHA	820279	5051	283	5.6%
17	KCG	328510	2643	189	7.2%
18	KONDAGAON	509109	4455	332	7.5%
19	KORBA	1072028	3659	274	7.5%
20	KORIA	209024	790	67	8.5%
21	MAHASAMUND	922438	7025	455	6.5%
22	MCB	347622	1145	125	10.9%
23	MMA	253171	2524	127	5.0%
24	MUNGELI	692346	3096	226	7.3%
25	NARAYANPUR	122544	656	57	8.7%
26	RAIGARH	980731	8461	615	7.3%
27	RAIPUR	2069342	9344	776	8.3%
28	RAJNANDGAON	788849	5747	361	6.3%
29	SARGUJA	739551	3432	319	9.3%
30	SUKAMA	203940	1415	93	6.6%
31	SURAJPUR	702183	4378	399	9.1%
32	SAKTI	596277	5156	306	5.9%
33	SARANGARH- BILAIGARH	569915	5204	307	5.9%
State Average		23195000	145181	10019	6.9%

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.

Figure-51: Classification of Accidents deaths (n=10019):

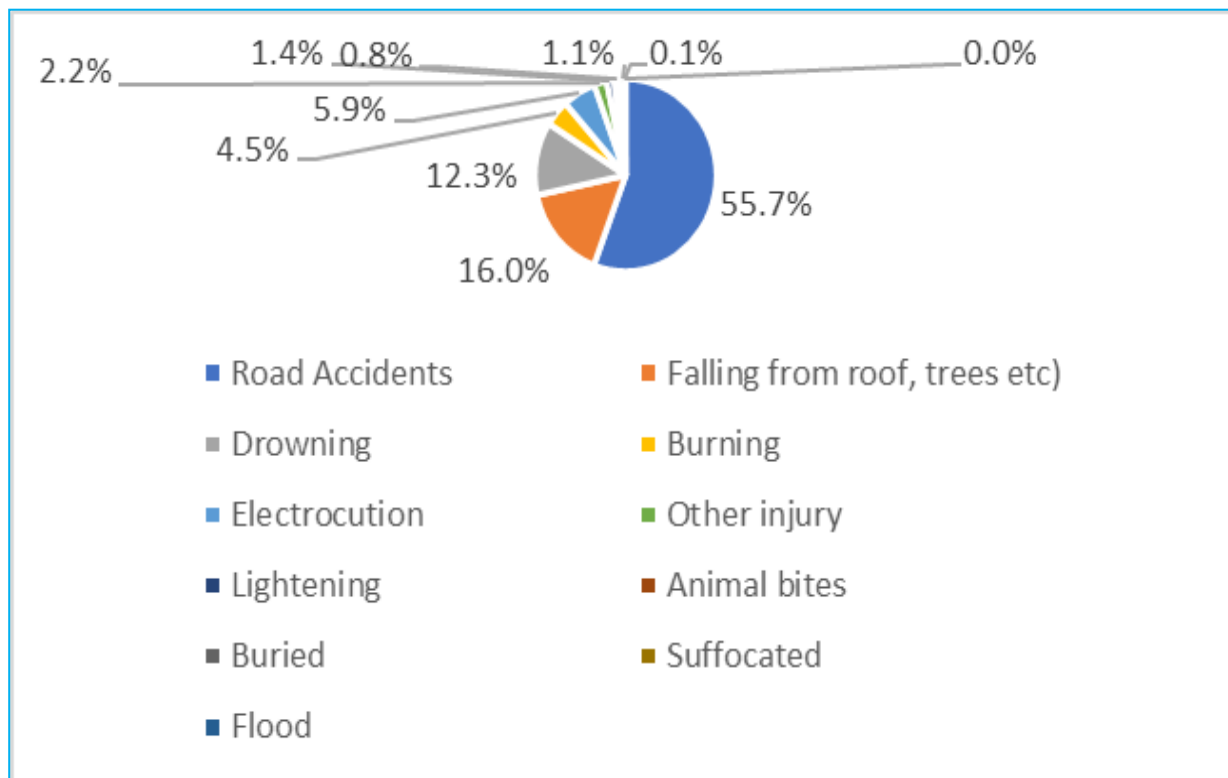


Figure-52: Age distribution of deaths due to accidents (n=10019): 55% of these deaths are in 15-49 year age group.

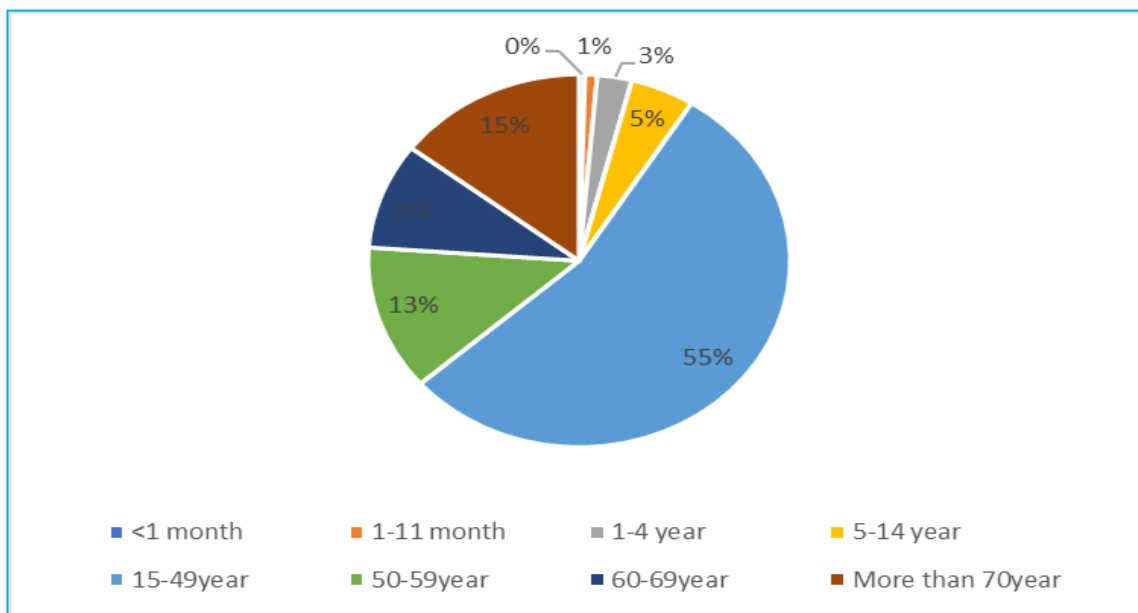


Figure-53: Gender distribution (n=10019): 73% of the deaths due to accident are of male persons.

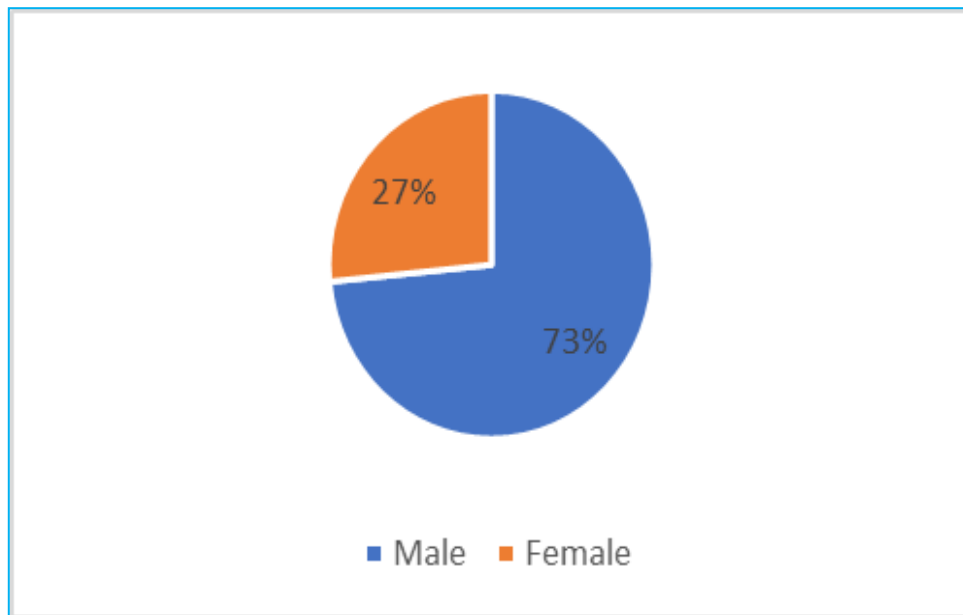
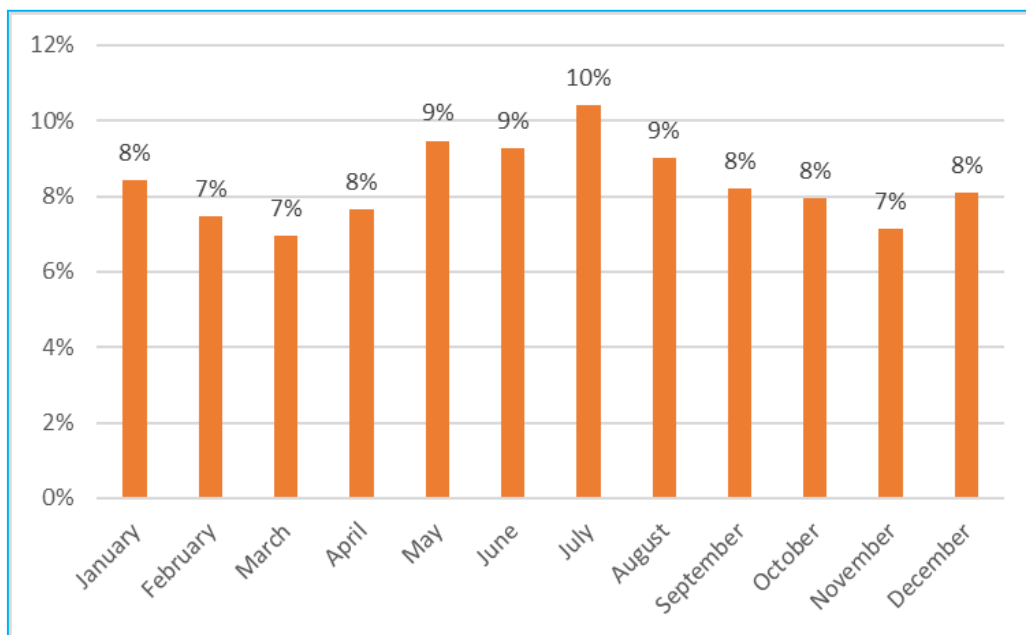


Figure-54: The number of deaths per month does not have a seasonal pattern (n=10019).



4.2 Deaths due to suicide:

VHSNCs have reported 6291 deaths during 2022 for which the cause is recorded as suicide.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	251	4.3%
2	BALODABAZAAR	1115859	7161	323	4.5%
3	BALRAMPUR	660654	3510	183	5.2%
4	BASTAR	735340	4578	135	2.9%
5	BEMETARA	800121	5391	167	3.1%
6	BIJAPUR	209211	1562	92	5.9%
7	BILASPUR	1579744	6340	260	4.1%
8	DANTEWADA	247391	2300	157	6.8%
9	DHAMTARI	679971	5389	239	4.4%
10	DURG	1479452	5365	241	4.5%
11	GARIYABAND	523742	5298	209	3.9%
12	GPM	294582	1932	67	3.5%
13	JANJGIR	877434	6317	263	4.2%
14	JASHPUR	731978	5398	219	4.1%
15	KANKER	645889	4600	260	5.7%
16	KAWARDHA	820279	5051	124	2.5%
17	KCG	328510	2643	94	3.6%
18	KONDAGAON	509109	4455	234	5.3%
19	KORBA	1072028	3659	203	5.5%
20	KORIA	209024	790	52	6.6%
21	MAHASAMUND	922438	7025	312	4.4%
22	MCB	347622	1145	70	6.1%
23	MMA	253171	2524	77	3.1%
24	MUNGELI	692346	3096	109	3.5%
25	NARAYANPUR	122544	656	28	4.3%
26	RAIGARH	980731	8461	354	4.2%
27	RAIPUR	2069342	9344	531	5.7%
28	RAJNANDGAON	788849	5747	222	3.9%
29	SARGUJA	739551	3432	170	5.0%
30	SUKAMA	203940	1415	69	4.9%
31	SURAJPUR	702183	4378	245	5.6%
32	SAKTI	596277	5156	173	3.4%
33	SARANGARH-BILAIGARH	569915	5204	158	3.0%
State Average		23195000	145181	6291	4.3%

Figure-55: Age distribution of deaths due to suicide (n=6291): 77% of these deaths are in 15-49 year age group.

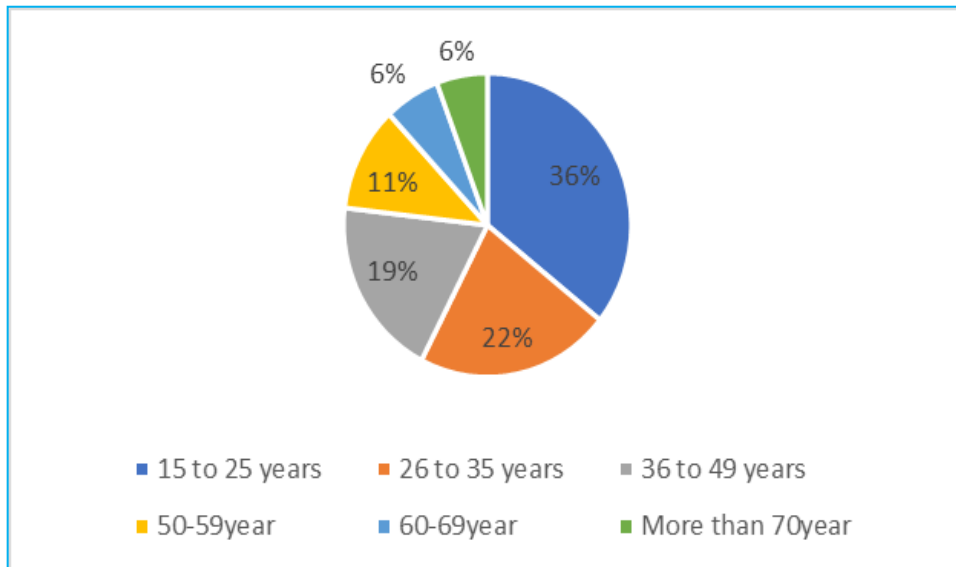


Figure-56: Gender distribution (n=6291): 72% of these deaths are male.

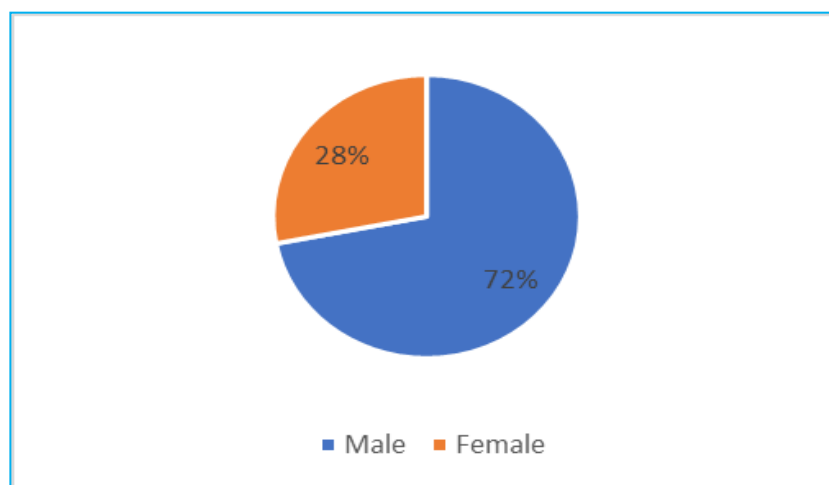
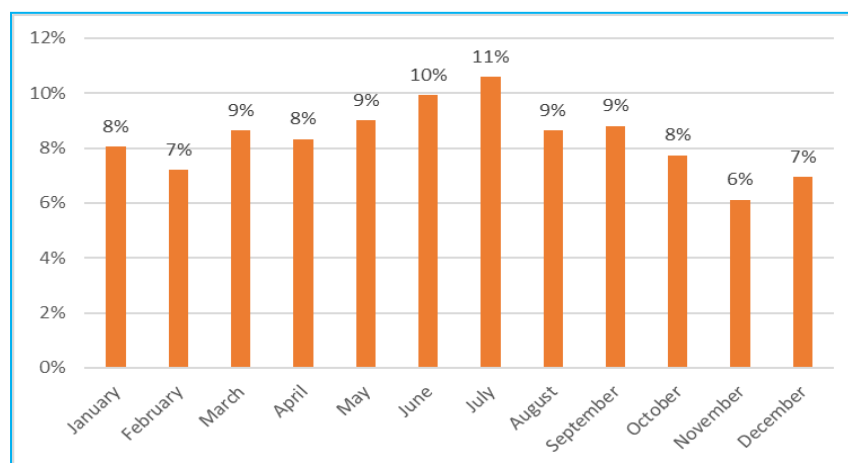


Figure-57: The number of deaths per month does not have a seasonal pattern (n=6291).



4.3 Death due to Murder:

VHSNCs have reported 678 deaths during 2022 for which the cause is recorded as murder.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	14	0.2%
2	BALODABAZAAR	1115859	7161	15	0.2%
3	BALRAMPUR	660654	3510	24	0.7%
4	BASTAR	735340	4578	18	0.4%
5	BEMETARA	800121	5391	23	0.4%
6	BIJAPUR	209211	1562	22	1.4%
7	BILASPUR	1579744	6340	34	0.5%
8	DANTEWADA	247391	2300	42	1.8%
9	DHAMTARI	679971	5389	14	0.3%
10	DURG	1479452	5365	22	0.4%
11	GARIYABAND	523742	5298	21	0.4%
12	GPM	294582	1932	12	0.6%
13	JANJGIR	877434	6317	18	0.3%
14	JASHPUR	731978	5398	43	0.8%
15	KANKER	645889	4600	14	0.3%
16	KAWARDHA	820279	5051	24	0.5%
17	KCG	328510	2643	4	0.2%
18	KONDAGAON	509109	4455	13	0.3%
19	KORBA	1072028	3659	12	0.3%
20	KORIA	209024	790	6	0.8%
21	MAHASAMUND	922438	7025	18	0.3%
22	MCB	347622	1145	7	0.6%
23	MMA	253171	2524	8	0.3%
24	MUNGELI	692346	3096	16	0.5%
25	NARAYANPUR	122544	656	3	0.5%
26	RAIGARH	980731	8461	65	0.8%
27	RAIPUR	2069342	9344	45	0.5%
28	RAJNANDGAON	788849	5747	16	0.3%
29	SARGUJA	739551	3432	29	0.8%
30	SUKAMA	203940	1415	11	0.8%
31	SURAJPUR	702183	4378	33	0.8%
32	SAKTI	596277	5156	15	0.3%
33	SARANGARH-BILAIGARH	569915	5204	17	0.3%
State Average		23195000	145181	678	0.5%

Figure-58: Age distribution of deaths due to murder (n=678): 71% of these deaths are in 15-49 year age group. Deaths due to murder are also high in the 50-59 year age group.

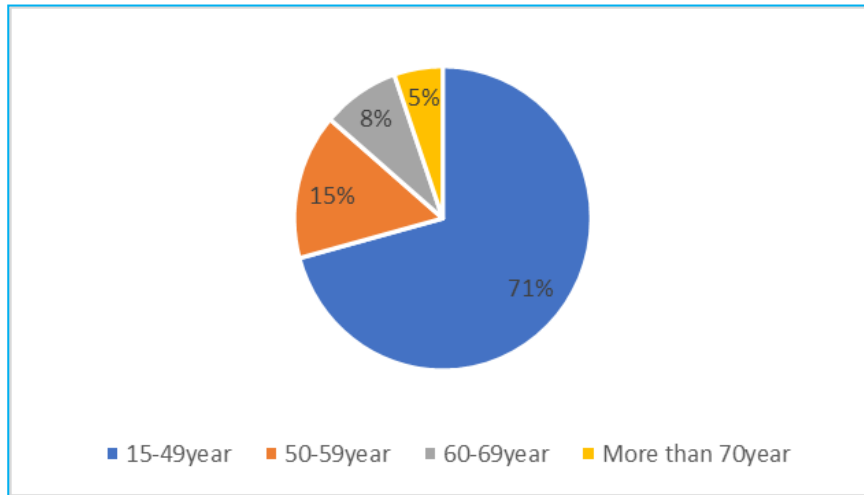


Figure-59: Gender distribution (n=678): 62% of the deaths due to murder are of male persons.

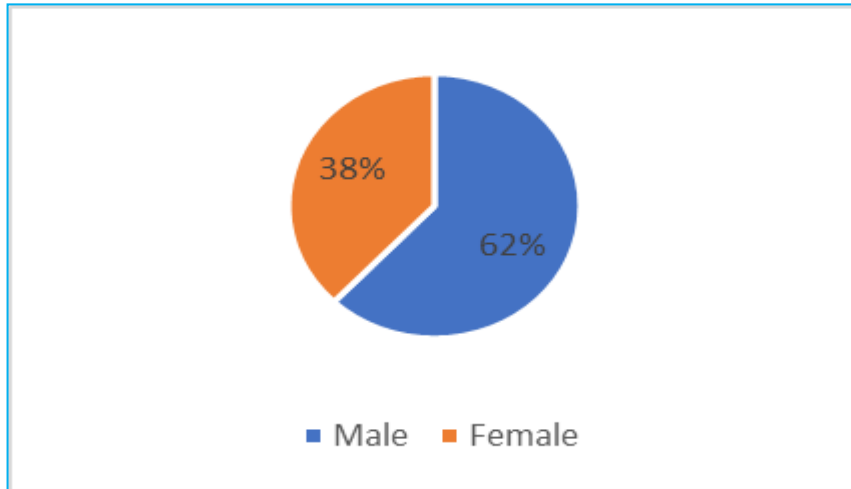
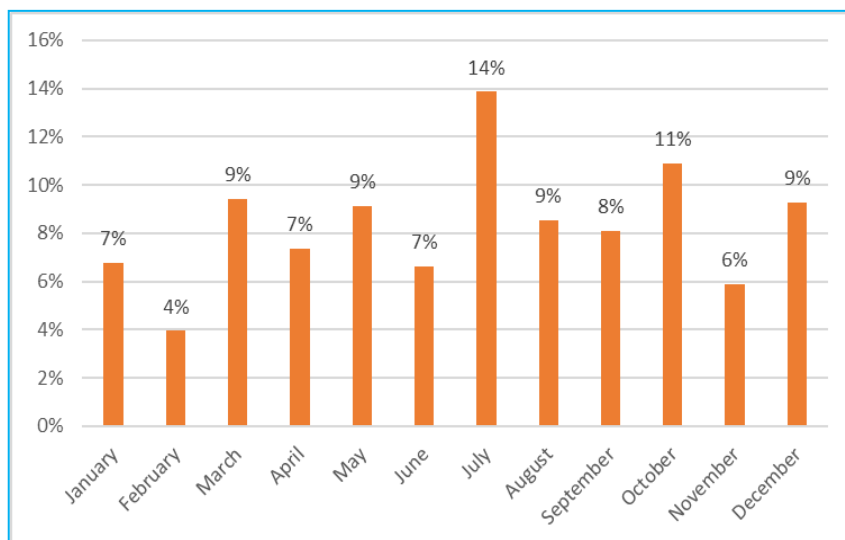


Figure-60: The number of deaths per month is slightly higher in July (n=678).



4.4 Deaths due to snake bite:

VHSNCs have reported 846 deaths during 2022 for which the cause is recorded as snake bite.

S.N.	District	Projected rural population 2022	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BAALOD	685773	5859	13	0.2%
2	BALODABAZAAR	1115859	7161	18	0.3%
3	BALRAMPUR	660654	3510	52	1.5%
4	BASTAR	735340	4578	34	0.7%
5	BEMETARA	800121	5391	21	0.4%
6	BIJAPUR	209211	1562	24	1.5%
7	BILASPUR	1579744	6340	36	0.6%
8	DANTEWADA	247391	2300	24	1.0%
9	DHAMTARI	679971	5389	23	0.4%
10	DURG	1479452	5365	13	0.2%
11	GARIYABAND	523742	5298	29	0.5%
12	GPM	294582	1932	18	0.9%
13	JANJGIR	877434	6317	42	0.7%
14	JASHPUR	731978	5398	27	0.5%
15	KANKER	645889	4600	24	0.5%
16	KAWARDHA	820279	5051	51	1.0%
17	KCG	328510	2643	10	0.4%
18	KONDAGAON	509109	4455	45	1.0%
19	KORBA	1072028	3659	34	0.9%
20	KORIA	209024	790	5	0.6%
21	MAHASAMUND	922438	7025	40	0.6%
22	MCB	347622	1145	13	1.1%
23	MMA	253171	2524	15	0.6%
24	MUNGELI	692346	3096	17	0.5%
25	NARAYANPUR	122544	656	5	0.8%
26	RAIGARH	980731	8461	52	0.6%
27	RAIPUR	2069342	9344	11	0.1%
28	RAJNANDGAON	788849	5747	11	0.2%
29	SARGUJA	739551	3432	29	0.8%
30	SUKAMA	203940	1415	23	1.6%
31	SURAJPUR	702183	4378	34	0.8%
32	SAKTI	596277	5156	30	0.6%
33	SARANGARH-BILAIGARH	569915	5204	23	0.4%
State Average		23195000	145181	846	0.6%

Figure-61: Age distribution of deaths due to snake bite (n=846): 50% 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.

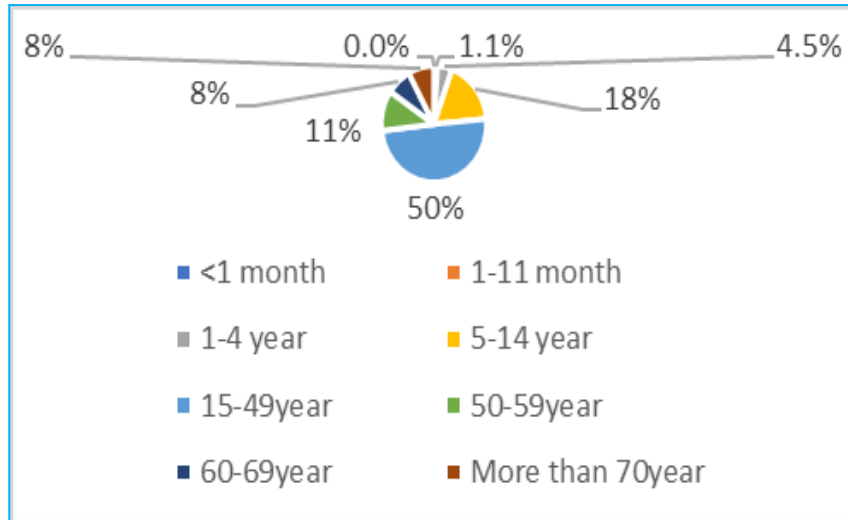


Figure-62: Gender distribution (n=846): 52% of the deaths due to snake bite are of male persons.

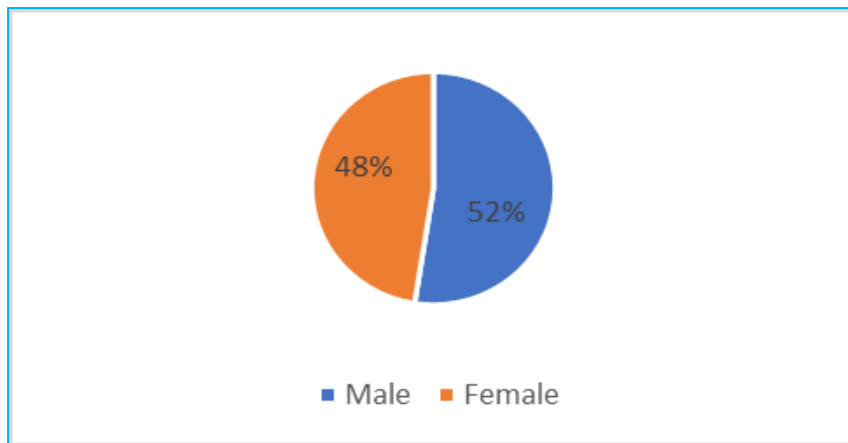
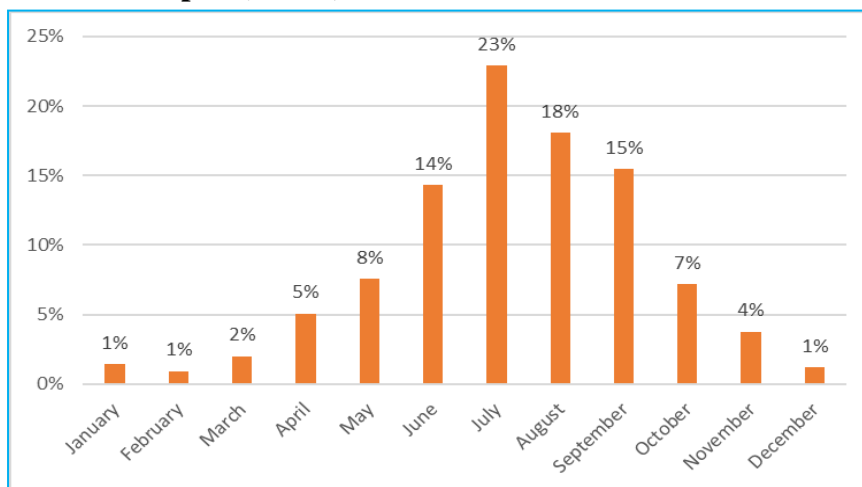


Figure-63: The number of deaths per month is slightly higher in July. It drops in October and is low otherwise till April (n=846).



Analysis for some other causes is available in Annexure - I

Chapter 5: Under-5 Child Deaths in rural Chhattisgarh

5.1 District wise no. of Newborn Deaths (<1 month) in 2022

The report covers 6407 of the total 17165 estimated neonatal deaths in the rural areas of the state.

Thus the overall reporting percentage for neonatal deaths is 37%.

S.N.	District	Projected Rural Population 2022	Expected no. of Neonatal deaths	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BALOD	685773	377	5859	350	93%
2	BALODA BAZAR	1115859	1003	7161	365	36%
3	BALRAMPUR	660654	472	3510	137	29%
4	BASTAR	735340	390	4578	253	65%
5	BEMETARA	800121	440	5391	222	50%
6	BIJAPUR	209211	146	1562	70	48%
7	BILASPUR	1579744	988	6340	225	23%
8	DANTEWADA	247391	172	2300	97	56%
9	DHANTARI	679971	502	5389	312	62%
10	DURG	1479452	813	5365	206	25%
11	GARIYABAND	523742	471	5298	245	52%
12	GPM	294582	184	1932	76	41%
13	JANJGIR-CHAMPA	877434	577	6317	227	39%
14	JASHPUR	731978	557	5398	247	44%
15	KABIRDHAM	820279	956	4600	178	19%
16	KANKER	645889	339	5051	223	66%
17	KONDAGAON	509109	270	4455	178	66%
18	KORBA	1072028	993	3659	173	17%
19	KOREA	209024	161	790	29	18%
20	MAHASAMUND	922438	772	7025	338	44%
21	MUNGELI	692346	433	3096	127	29%
22	NARAYANPUR	122544	64	656	41	64%
23	RAIGARH	980731	751	8461	311	41%
24	RAIPUR	2069342	1860	9344	376	20%
25	RAJNANDGAON	788849	694	5747	286	41%
26	SUKMA	203940	142	4378	57	40%
27	SURAJPUR	702183	502	5156	220	44%
28	SURGUJA	739551	529	5204	145	27%
29	MCB	347622	268	1145	58	22%
30	MMA	253171	223	2524	102	46%
31	SAKTI	596277	392	3432	216	55%
32	SARANGARH BILAIGARH	569915	436	1415	213	49%
33	KCG	328510	289	2643	104	36%
State Average		23195000	17165	145181	6407	37%

Figure-64: The neonatal deaths recorded monthly are slightly higher in July to September (n=6407).

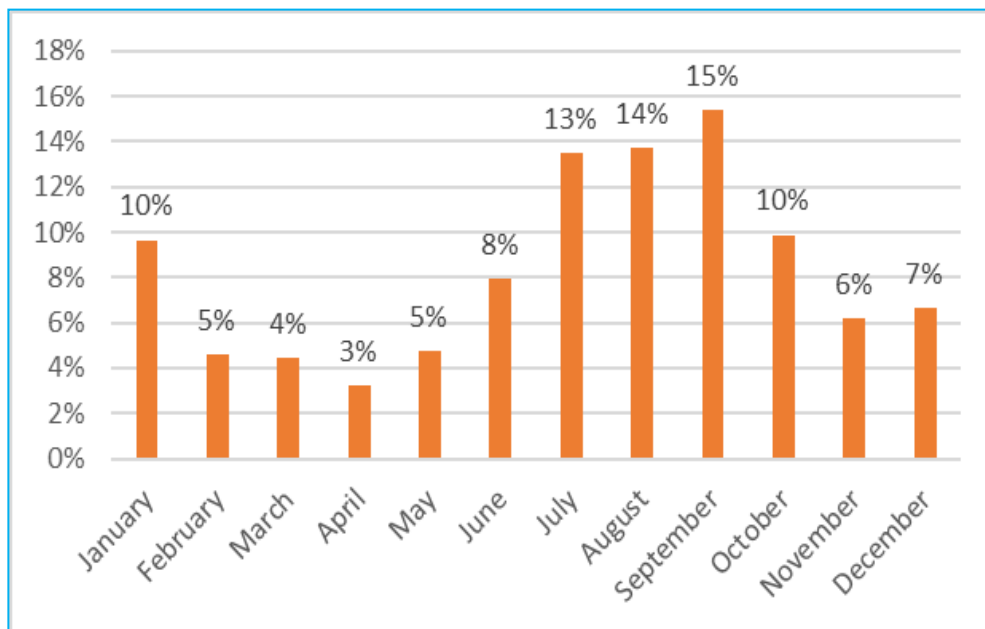
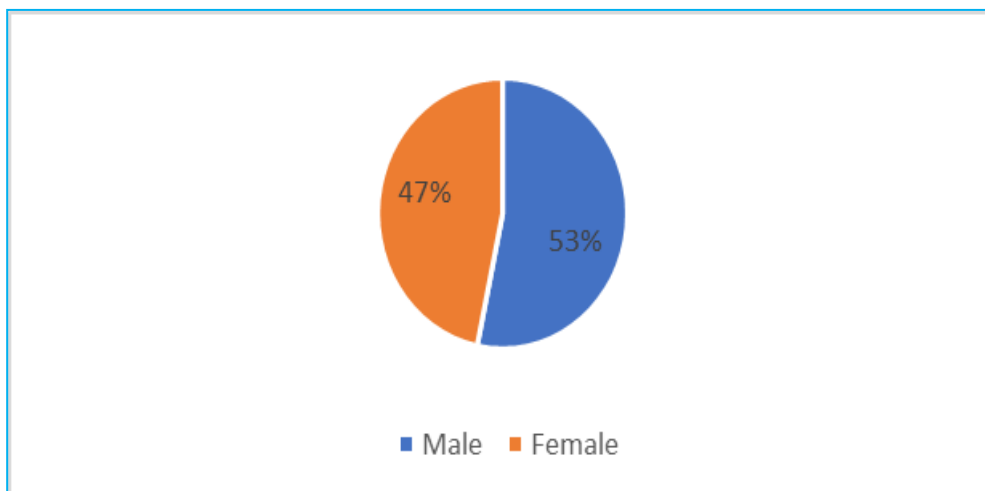


Figure-65: Gender distribution (n=6407): 53% of the neonatal deaths recorded were of male children.

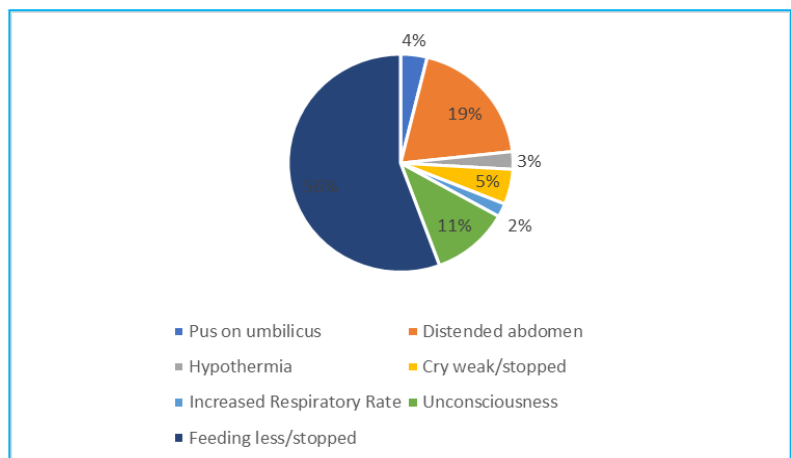


The causes for 36% of reported neonatal deaths are due to neonatal conditions (Birth Asphyxia & sepsis). Low Birth Weight, Pneumonia and Jaundice were also important causes of neonatal deaths.

Reported Causes	Number of Neonatal Deaths Reported 2022	% in 2022	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidental	44	0.7%	0.6%	0.5%	0.3%	1%	1%	1%	1%	0%	0%
Convulsions	255	4.0%	3.9%	3.3%	3.9%	4%	3%	4%	3%	3%	2%
Fever	67	1.0%	2.2%	0.9%	1.0%	1%	2%	2%	2%	3%	2%
Neonatal Jaundice	178	2.8%	2.8%	2.7%	3.4%	4%	3%	4%	3%	4%	3%
Low Birth Weight	498	7.8%	6.7%	7.3%	8.9%	11%	13%	16%	17%	14%	11%
Diarrhoea	54	0.8%	1.0%	0.7%	0.6%	1%	1%	1%	1%	1%	1%
Pneumonia	253	3.9%	5.2%	2.3%	2.9%	6%	6%	8%	7%	7%	8%
T.B.	2	0.0%	0.1%	0.0%	0.1%	0%	0%	0%	0%	0%	0%
Birth Asphyxia	1794	28.0%	22.1%	24.7%	25.3%	20%	23%	59%	61%	63%	60%
Neonatal sepsis	498	7.8%	10.0%	11.5%	9.7%	12%	8%				
Congenital Heart Disease/Anomalies	111	1.7%	2.0%	1.2%	1.5%	2%	1%	1%			
Digestive Diseases	51	0.8%	1.4%	0.8%	1.0%	2%	2%	3%			
Kidney related diseases	20	0.3%	0.3%	0.1%	0.2%	0%	0%	0%			
Neonatal Diabetes	4	0.1%	0.0%	0.1%	0.1%	0%	0%	0%			
Sickel Cell Anaemia	3	0.0%	0.1%	0.0%	0.0%	0%	0%	0%			
Neonatal Cancer	5	0.1%	0.1%	0.1%	0.1%	0%	0%	0%			
Corona	0	0.0%	0.1%	0.0%							
Cough & Cold	6	0.1%	0.3%	0.1%							
Respiratory diseases	156	2.4%	2.8%	1.0%							
Anaemia	19	0.3%	0.6%	0.1%							
Chicken pox	10	0.2%	0.2%	0.0%							
Other	2379	37.1%	37.6%	42.5%	41.0%	36%	37%	1%	5%	6%	12%
Total	6407	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Figure-66: Reported symptoms of Neonatal sepsis (n=498)

56% 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 2022

The report covers 2774 of the total 7182 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 39%.

S.N.	District	Projected rural population 2022	Expected no. of post-neonatal deaths	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BALOD	685773	182	5859	113	62%
2	BALODA BAZAR	1115859	211	7161	141	67%
3	BALRAMPUR	660654	375	3510	60	16%
4	BASTAR	735340	202	4578	114	56%
5	BEMETARA	800121	212	5391	118	56%
6	BIJAPUR	209211	75	1562	37	49%
7	BILASPUR	1579744	418	6340	105	25%
8	DANTEWADA	247391	89	2300	61	69%
9	DHAMTARI	679971	163	5389	88	54%
10	DURG	1479452	392	5365	66	17%
11	GARIYABAND	523742	99	5298	114	115%
12	GPM	294582	78	1932	43	55%
13	JANJGIR-CHAMPA	877434	238	6317	91	38%
14	JASHPUR	731978	325	5398	112	34%
15	KABIRDHAM	820279	364	4600	105	29%
16	KANKER	645889	239	5051	92	39%
17	KONDAGAON	509109	140	4455	97	69%
18	KORBA	1072028	271	3659	85	31%
19	KOREA	209024	68	790	19	28%
20	MAHASAMUND	922438	396	7025	139	35%
21	MUNGELI	692346	183	3096	46	25%
22	NARAYANPUR	122544	33	656	16	48%
23	RAIGARH	980731	316	8461	135	43%
24	RAIPUR	2069342	392	9344	144	37%
25	RAJNANDGAON	788849	213	5747	119	56%
26	SUKMA	203940	73	4378	36	49%
27	SURAJPUR	702183	398	5156	101	25%
28	SURGUJA	739551	419	5204	58	14%
29	MCB	347622	114	1145	23	20%
30	MMA	253171	69	2524	51	74%
31	SAKTI	596277	162	3432	97	60%
32	SARANGARH BILAIGARH	569915	184	1415	97	53%
33	KCG	328510	89	2643	51	57%
State Average		23195000	7182	145181	2774	39%

Figure-67: The post-neonatal infant deaths recorded monthly are slightly higher in September (n=2774).

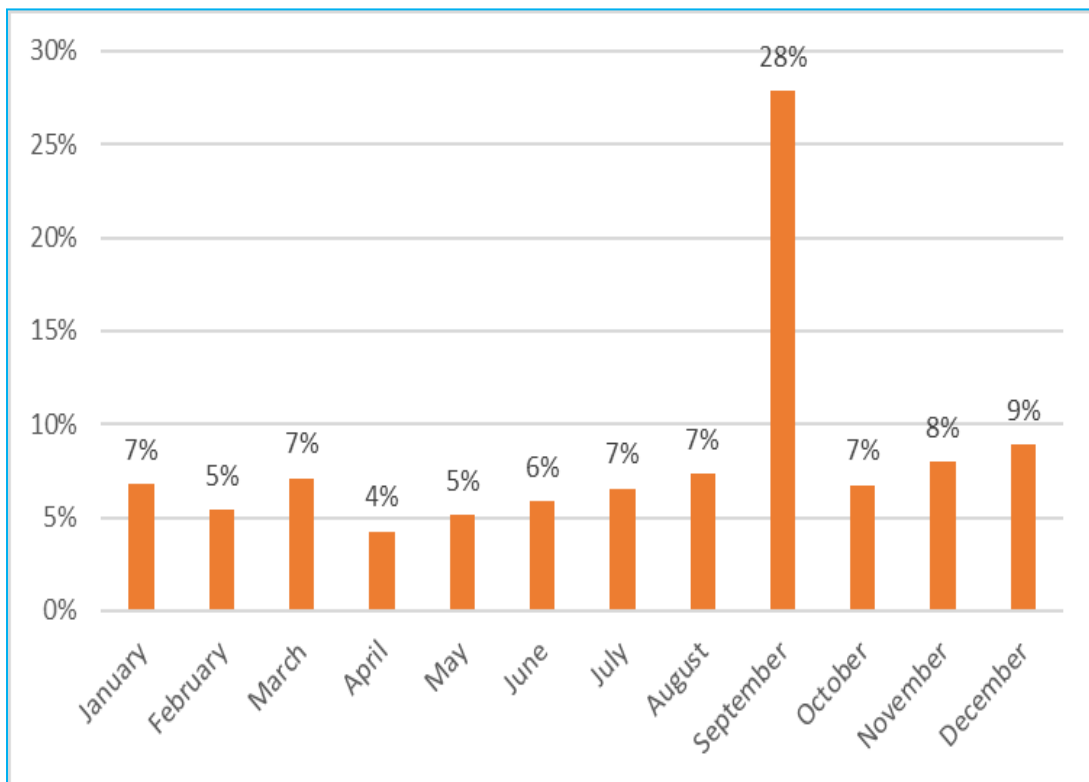
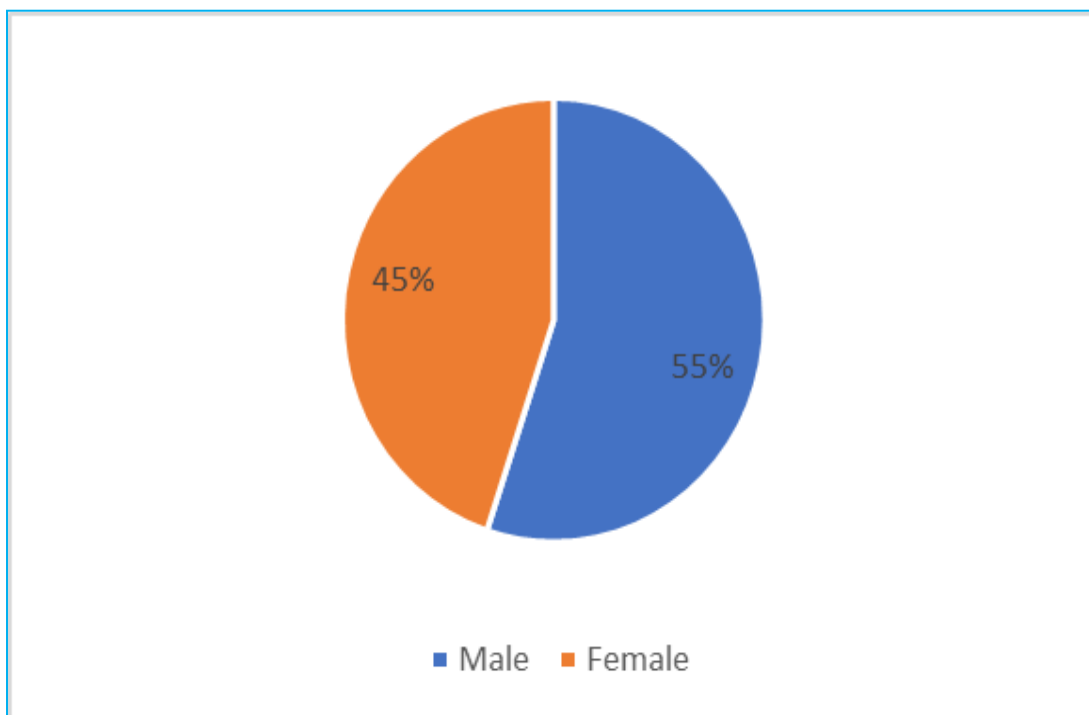


Figure-68: Gender distribution (n=2774): 55% of the post-neonatal deaths recorded were of male children.



Reported Causes	Number of Post-Neonatal Deaths Reported 2022	% in 2022	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accident	94	3.4%	4.8%	3.0%	2%	4.1%	3%	4%	5%	1%	4%
Convulsion	215	7.8%	6.4%	6.3%	6%	5.7%	4%	5%	3%	2%	2%
Fever/Malaria	217	7.8%	9.2%	6.9%	7%	6.1%	7%	9%	10%	13%	16%
Childhood Jaundice	90	3.2%	4.0%	3.4%	5%	5.4%	4%	4%	3%	4%	5%
Malnutrition	200	7.2%	5.7%	6.6%	9%	9.0%	8%	15%	8%	10%	8%
Pneumonia	562	20.3%	17.5%	20.5%	20%	24.0%	19%	35%	30%	28%	20%
Snake bite	9	0.3%	0.0%	0.5%	0%	0.3%	0%	0%	0%	0%	0%
Diarrhoea	174	6.3%	5.8%	5.3%	5%	5.1%	5%	7%	6%	6%	8%
T.B.	4	0.1%	0.1%	0.1%	0%	0.3%	0%	0%	0%	0%	1%
Congenital Heart Disease/Anomalies	160	5.8%	6.4%	5.9%	7%	8.3%	8%	10%			
Digestive Diseases	98	3.5%	3.0%	4.2%	4%	5.1%	3%	5%			
Kidney related diseases	33	1.2%	0.9%	0.7%	1%	0.5%	0%	0%			
Diabetes	4	0.1%	0.3%	0.2%	0%	0.2%	0%	0%			
Sickel Cell Anaemia	12	0.4%	0.5%	0.2%	0%	0.7%	0%	0%			
Cancer	13	0.5%	0.5%	0.2%	0%	0.9%	1%	0%			
Corona	0	0.0%	0.2%	0.1%							
Cough & Cold	27	1.0%	1.0%	0.3%							
Respiratory diseases	88	3.2%	2.7%	1.1%							
Anaemia	24	0.9%	2.2%	0.5%							
Chicken pox	11	0.4%	0.7%	0.4%							
Other	739	26.6%	28.0%	33.7%	32%	24.3%	37%	4%	35%	35%	35%
Total	2774	100%	100%	100%	100%	100.0%	100%	100%	100%	100%	100%

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

5.3 District wise no. of Child Deaths (1 to 4 years) in 2022

The report covers 1644 of the total 8365 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 20%.

S.N.	District	Projected rural population 2022	Expected no. of under 5 deaths	Total reported deaths by VHSNC in 2022	Number of deaths reported by VHSNC in 2022	% of reported deaths
1	BALOD	685773	117	5859	68	58%
2	BALODA BAZAR	1115859	317	7161	90	28%
3	BALRAMPUR	660654	668	3510	34	5%
4	BASTAR	735340	188	4578	63	34%
5	BEMETARA	800121	152	5391	61	40%
6	BIJAPUR	209211	85	1562	26	31%
7	BILASPUR	1579744	570	6340	61	11%
8	DANTEWADA	247391	106	2300	32	30%
9	DHAMTARI	679971	122	5389	71	58%
10	DURG	1479452	308	5365	43	14%
11	GARIYABAND	523742	161	5298	58	36%
12	GPM	294582	106	1932	27	25%
13	JANJGIR-CHAMPA	877434	204	6317	62	30%
14	JASHPUR	731978	464	5398	57	12%
15	KABIRDHAM	820279	364	4600	58	16%
16	KANKER	645889	214	5051	41	19%
17	KONDAGAON	509109	140	4455	74	53%
18	KORBA	1072028	226	3659	40	18%
19	KOREA	209024	72	790	5	7%
20	MAHASAMUND	922438	218	7025	64	29%
21	MUNGELI	692346	266	3096	22	8%
22	NARAYANPUR	122544	36	656	7	20%
23	RAIGARH	980731	277	8461	112	40%
24	RAIPUR	2069342	685	9344	96	14%
25	RAJNANDGAON	788849	160	5747	74	46%
26	SUKMA	203940	92	4378	22	24%
27	SURAJPUR	702183	727	5156	48	7%
28	SURGUJA	739551	784	5204	46	6%
29	MCB	347622	120	1145	20	17%
30	MMA	253171	51	2524	28	54%
31	SAKTI	596277	138	3432	48	35%
32	SARANGARH BILAIGARH	569915	161	1415	53	33%
33	KCG	328510	67	2643	33	49%
State Average		23195000	8365	145181	1644	20%

Figure-69: The 1-4 year age group deaths recorded monthly are slightly higher in September (n=1644).

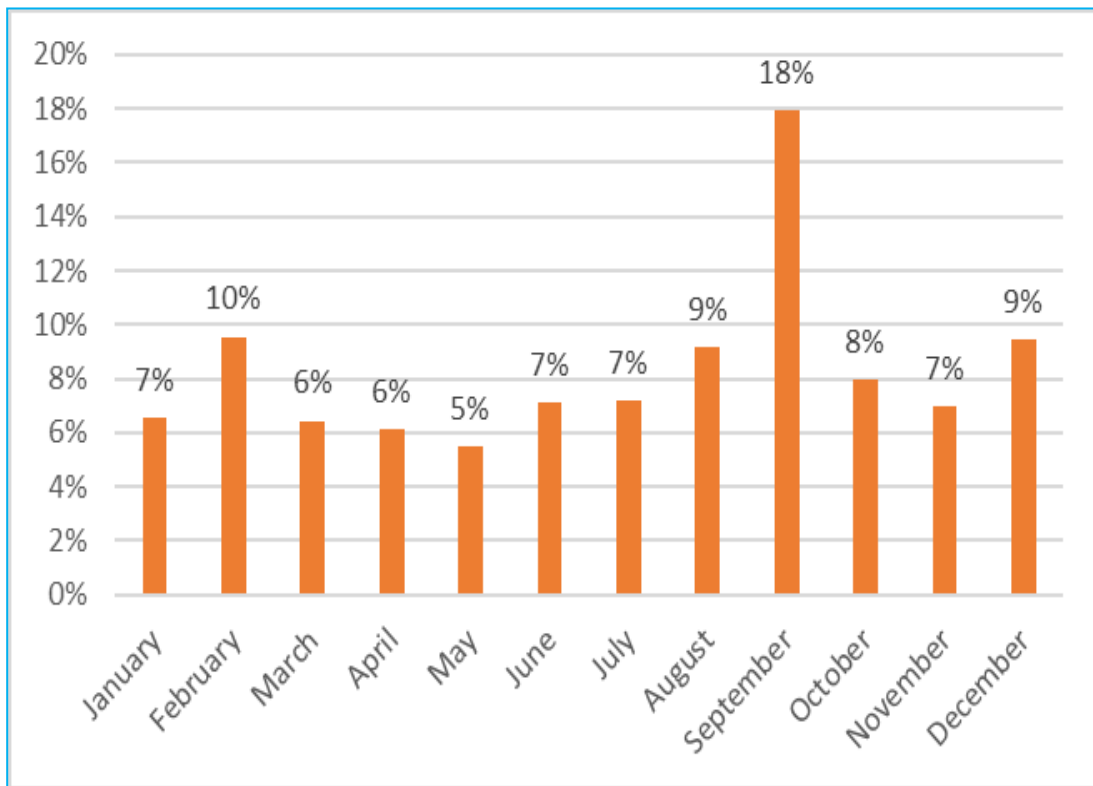
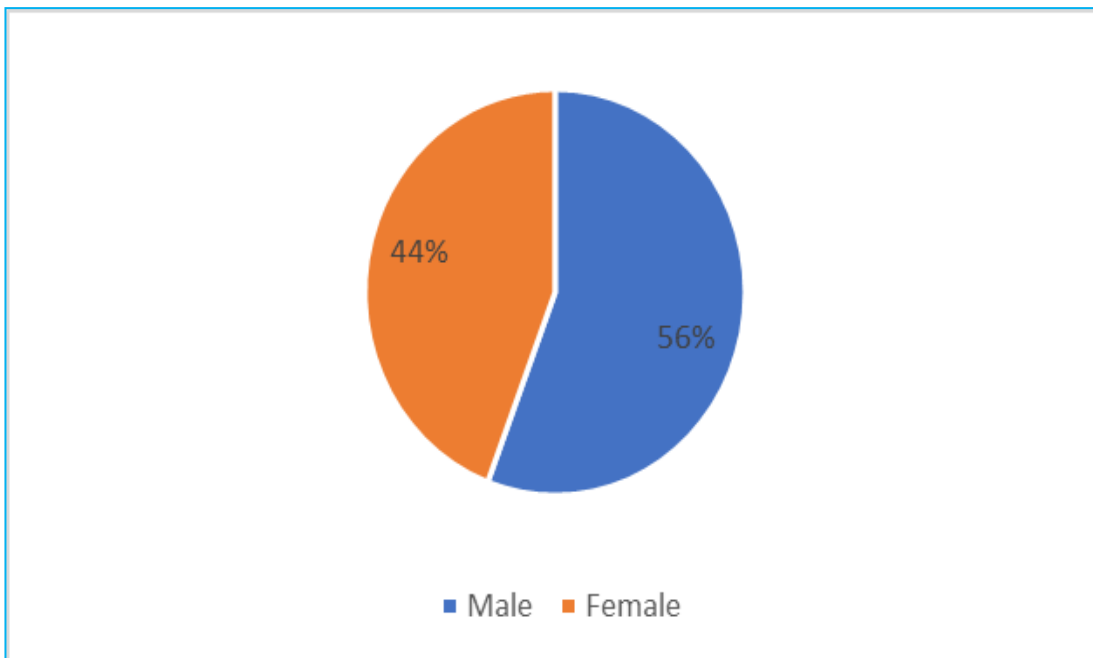


Figure-70: Gender distribution (n=1644): 56% of the 1-4 year age group deaths recorded were of male children.



Reported Causes	Number of Deaths Reported 2022	% in 2022	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accident	266	16.2%	15.1%	17.5%	15%	15.6%	14%	14%	12%	10%	12%
Convulsion	135	8.2%	7.6%	7.7%	8%	7.5%	7%	7%	5%	3%	4%
Fever/Malaria	184	11.2%	12.5%	8.1%	9%	11.0%	11%	17%	17%	21%	20%
Jaundice	61	3.7%	5.5%	4.3%	5%	6.4%	6%	8%	6%	6%	6%
Malnutrition	74	4.5%	3.5%	4.8%	5%	6.7%	6%	10%	6%	5%	5%
Pneumonia	147	8.9%	5.9%	5.6%	7%	7.7%	10%	13%	10%	10%	7%
Snake bite	38	2.3%	0.0%	3.2%	3%	1.9%	2%	2%	1%	2%	2%
Diarrhoea	91	5.5%	5.0%	5.0%	5%	4.5%	6%	8%	7%	6%	5%
T.B.	5	0.3%	0.6%	0.4%	1%	0.5%	1%	0%	1%	1%	1%
Rabies	8	0.5%	0.3%	0.6%	0%	0.5%	0%	0%	1%	1%	1%
Congenital Heart Disease/Anomalies	42	2.6%	5.9%	4.2%	7%	6.5%	7%	8%			
Digestive Diseases	78	4.7%	5.3%	5.6%	4%	4.8%	6%	7%			
Kidney related diseases	23	1.4%	1.0%	0.9%	0%	0.4%	0%	0%			
Diabetes	7	0.4%	0.4%	0.5%	1%	0.5%	0%	0%			
Sickel Cell Anaemia	21	1.3%	1.4%	1.8%	2%	2.4%	2%	2%			
Cancer	29	1.8%	1.6%	2.1%	2%	2.5%	2%	1%			
Corona	1	0.1%	0.1%	0.0%							
Cough & Cold	7	0.4%	0.4%	0.2%							
Respiratory diseases	26	1.6%	1.2%	0.9%							
Anaemia	31	1.9%	2.4%	1.3%							
Chicken pox	10	0.6%	0.6%	0.7%							
Other	360	21.9%	23.8%	24.5%	25%	20.8%	20%	2%	35%	35%	37%
Total	1644	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

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

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

Chapter 6: Urban-Slum Deaths in Chhattisgarh

Mahila Aarogya Samitis (MAS), a Women's Health Committees, are established in each Urban-Slum area across 19 cities in Chhattisgarh under the National Urban Health Mission (NUHM). The objectives of MAS are to monitor health, nutrition, and sanitation in the ward, disseminate information about government schemes to the community, develop a local-level work plan through community participation, assist impoverished and remote families, facilitate access to healthcare services, and enhance participation in health, nutrition, and sanitation-related issues.

MAS are mandated to record deaths occurring in their respective areas. One of the primary purposes of maintaining death registers within MAS is to enable health monitoring. These death registers are compiled and computerized into a state-level database by SHRC.

The causes of death analysed in this report are based on reports from communities in MAS meetings. Consequently, these definitions may not align with technical definitions. Nonetheless, despite this discrepancy, the information available through MAS registers remains valuable for understanding the likely and approximate causes of a significant portion of deaths in the state.

This report examines 12,228 deaths recorded by MAS during the year 2022. The deaths covered in the 2022 compilation constitute 76% of the total expected number of deaths based on the Crude Death Rate of the state (as per SRS 2020). The urban data pertains to slums in 20 cities with a population of 2.5 million slum dwellers (according to the Mitaniin Database).

The MAS-based system of recording deaths and causes, along with its compilation and analysis, represents a novel initiative. Over time, it is expected to evolve and become more useful in providing a clearer picture of mortality in urban-slum areas of the state.

Figure-71 Year wise Community Reported deaths in Urban Slum (expected Vs reported)

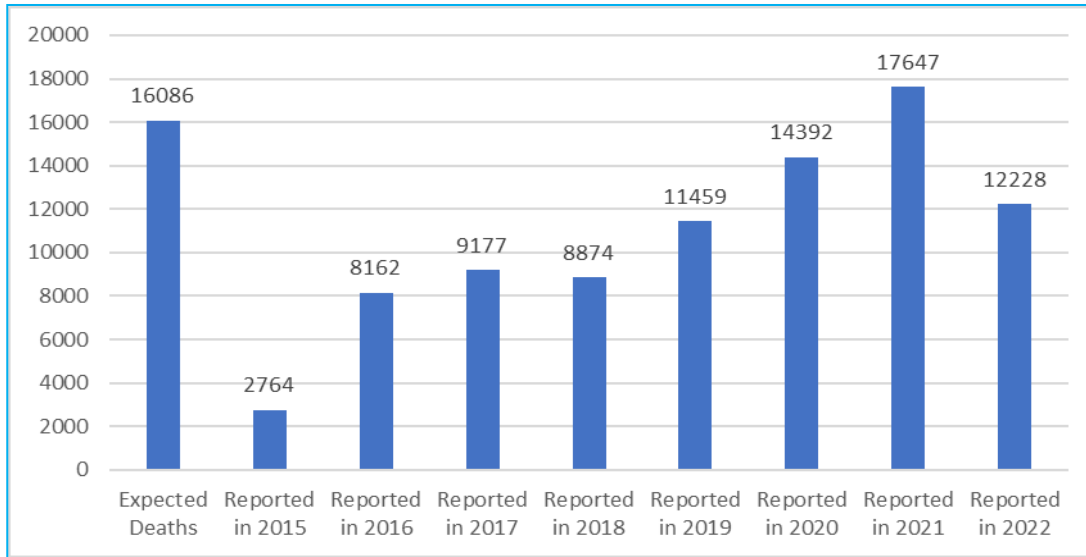
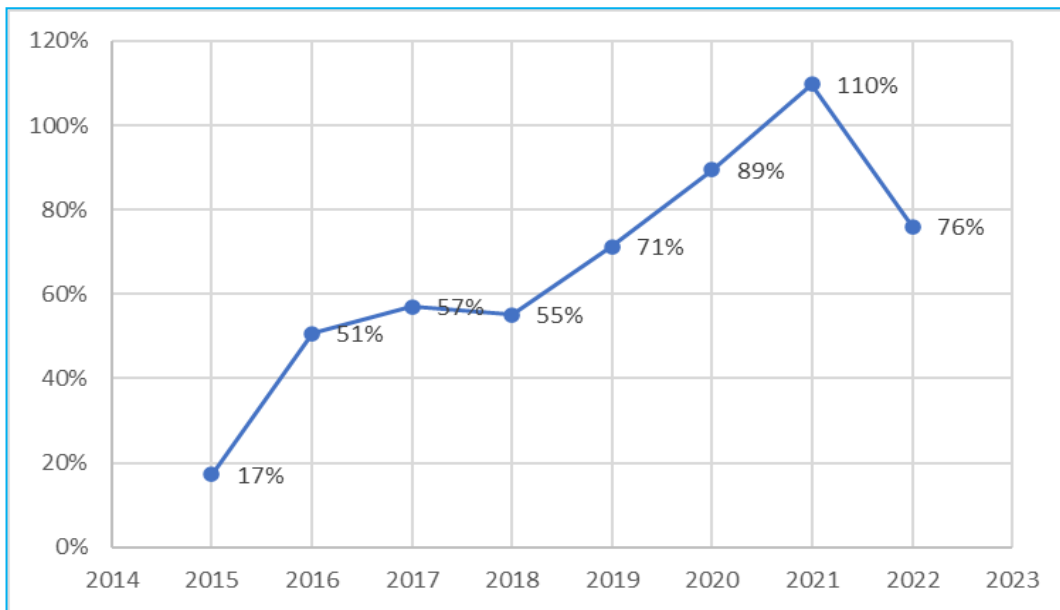


Figure-72 Year wise percentage of Community Reported deaths in Urban Slum



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

Age distribution of causes for deaths reported in Urban Slum

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 years	5 to 14 years	15 to 49 years	50 to 59 years	60 to 69 years	Above 70 years	Total
1	Accident	2	12	10	35	528	134	86	129	936
2	Convulsions	34	11	5	3	32	5	0	3	93
3	Fever/ Malaria	3	11	5	9	51	11	20	60	170
4	Neonatal Jaundice	9								9
5	Jaundice		3	0	4	69	12	13	7	108
6	Low Birth Weight	73								73
7	Malnutrition		8	0	0	0	0	0	0	8
8	Diarrhoea	0	6	4	5	22	4	6	10	57
9	Pneumonia	7	20	4	3	25	8	9	10	86
10	CHD/Anomalies	14	12	8	7					41
11	Stroke					148	208	377	672	1405
12	Heart Diseases/Heart attack					598	497	562	583	2240
13	High BP					73	95	132	319	619
14	Digestive Diseases	0	2	1	5	160	80	64	58	370
15	Kidney related Diseases	2	3	2	7	241	132	98	81	566
16	Diabetes	0	2	0	2	73	82	92	133	384
17	HIV/AIDS	0	0	0	1	24	2	2		29
18	T.B.	0	0	0	2	113	31	29	16	191
19	Snake Bite		0	0	2	8	0	0	0	10
20	Rabies			0	0	0	0	1	0	1
21	Birth Asphyxia	193								193
22	Neonatal Sepsis	23								23
23	Maternal causes					18				18
24	Murder					74	6	6	1	87
25	Suicide					471	61	23	23	578
26	Sickel Cell Anaemia			2	8	22	3	3	0	38
27	Cancer	0	2	1	11	235	143	139	106	637
28	Respiratory Diseases	7	3	0	3	87	57	82	170	409
29	Corona	0	0	2	0	12	5	8	12	39
30	Cough & Cold	1	3	0	0	1	1	3	3	12
31	Anemia	1	2	1	3	25	8	6	9	55
32	Chicken pox/Measles	0	0	1	0	0	0	0	0	1
33	Epilepsy	0	0	0	1	11	1	1	1	15
34	Mental illness	0	0	0	6	28	12	9	15	70
35	Dengue	0	0	0	0	3	0	2	0	5
36	Old age							46	811	857
37	Others	217	67	10	29	362	209	221	680	1795
	Total	586	167	56	146	3514	1807	2040	3912	12228

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

Chapter 7: 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.

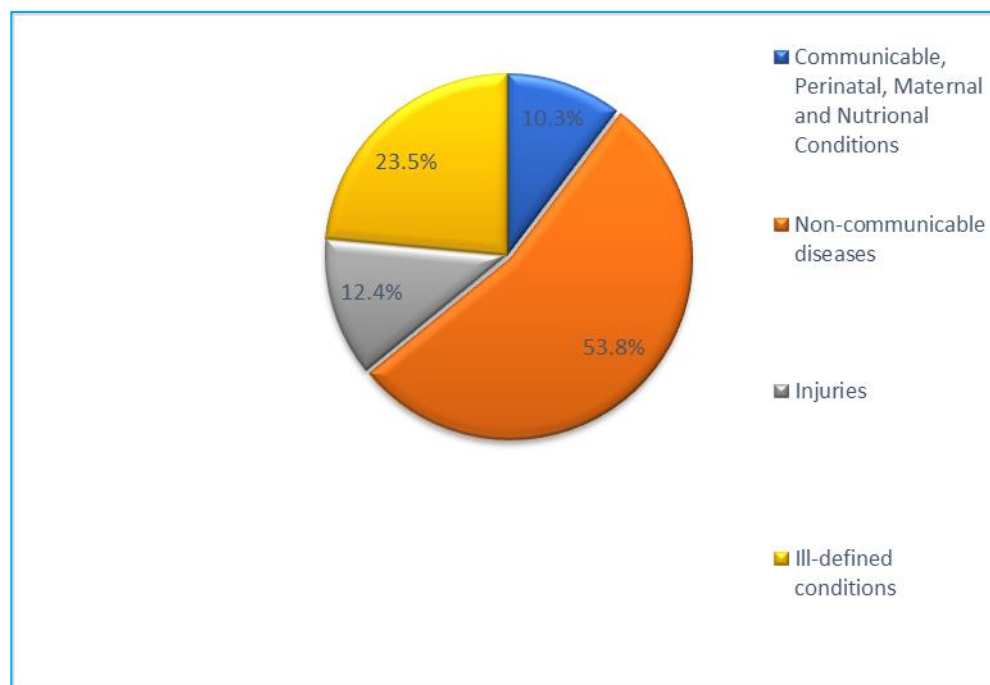
Age distribution of reported cause of deaths in Chhattisgarh, 2022 (Rural n=145181 and Urban Slum n=12228)

S.N.	Reported Causes	<1 month	1 to 11 months	1-4 years	5 to 14 years	15 to 49 years	50 to 59 years	60 to 69 years	Above 70 years	Total
1	Accident	46	106	276	528	5998	1396	1009	1596	10955
2	Convulsions	289	226	140	84	353	48	51	90	1281
3	Fever/ Malaria	70	228	189	164	726	210	299	695	2581
4	Neonatal Jaundice	187	0	0	0	0	0	0	0	187
5	Jaundice	0	93	61	111	1158	234	175	190	2022
6	Low Birth Weight	571	0	0	0	0	0	0	0	571
7	Malnutrition	0	208	74	12	16	6	13	40	369
8	Diarrhoea	54	180	95	94	367	130	155	273	1348
9	Pneumonia	260	582	151	44	112	35	32	42	1258
10	T.B.	2	4	5	24	987	494	447	439	2402
11	Snake Bite		9	38	154	428	96	64	67	856
12	Rabies			8	18	20	5	6	6	63
13	Birth Asphyxia	1987								1987
14	Neonatal Sepsis	521								521
15	Maternal causes					220				220
16	Murder					554	111	63	37	765
17	Suicide					5304	766	416	383	6869
18	Cancer	5	15	30	89	2463	1653	1564	1347	7166
19	HIV/AIDS				1	101	21	11	0	134
20	CHD/Anomalies	125	172	50	44					391
21	Stroke					2226	3112	6424	14365	26127
22	Heart Disease					5099	3903	4560	5960	19522
23	High BP					781	786	1333	2756	5656
24	Digestive Diseases	51	100	79	144	1637	788	807	1097	4703
25	Kidney related diseases	22	36	25	75	2317	1312	1008	974	5769
26	Diabetes	4	6	7	23	1040	1053	1367	2161	5661
27	Sickel Cell Anemia	3	12	23	91	479	49	43	27	727
28	Respiratory diseases	163	91	26	46	749	613	1081	3128	5897
29	Corona	0	0	3	3	67	41	49	55	218
30	Cough & Cold	7	30	7	4	36	11	27	59	181
31	Anemia	20	26	32	57	815	258	296	586	2090
32	Chicken pox/Measles	10	11	11	19	41	6	11	6	115
33	Epilepsy				1	595	132	75	78	881
34	Mental illness				6	414	124	124	173	841
35	Dengue				0	14	1	2	0	17
36	Old age							1215	10451	11666
37	Others	2596	806	370	434	5103	2563	3348	10172	25392
	Total	6993	2941	1700	2270	40220	19957	26075	57253	157409

The data provides insight into the primary causes of preventable mortality, particularly those recognized by communities, up to the age of sixty years. The analysis also highlights their relative significance.

- For neonates aged 0 to 1 month, Birth Asphyxia, Sepsis, and Low Birth Weight (LBW) are the most commonly reported causes of death.
- Among infants aged 1 to 11 months, Pneumonia, Fever/Malaria, Convulsions, Malnutrition, and Congenital Heart Disease/anomalies are the predominant reported causes of death.
- In children aged 1 to 4 years, Accidents, Fever/Malaria, Pneumonia, Convulsions, and Diarrhea are the leading reported causes of death.
- For the 5 to 14-year age group, Accidents, Fever/Malaria, Snake bites, Digestive issues, and Jaundice are the principal reported causes of death.
- In the 15-49 year age group, Cardiovascular Disease (CVD), Accidents, Suicides, Cancer, Kidney-related diseases, Jaundice, and Diabetes emerge as the leading reported causes of death.
- Within the 50-59 year age group, CVD, Cancer, Accidents, Kidney-related diseases, Diabetes, Respiratory diseases, Suicide, and Tuberculosis stand out as the primary reported causes of death.
- Among individuals aged 60-69 years and 70 years and above, CVD, Cancer, Diabetes, Respiratory diseases, Kidney-related diseases, Accidents, and Digestive diseases are the predominant reported causes of death.

Figure 73. Classification of cause of death reported in 2022 (Rural & Urban Slum)



- **54% deaths reported as non-communicable diseases**

Annexure – I

Table 1: Deaths due to Rabies:

VHSNCs have reported 62 deaths during 2022 for which the cause is recorded as Rabies

S.N.	District	Number of deaths reported	%
1	BAALOD	0	0.0%
2	BALODABAZAAR	2	3.2%
3	BALRAMPUR	3	4.8%
4	BASTAR	4	6.5%
5	BEMETARA	1	1.6%
6	BIJAPUR	2	3.2%
7	BILASPUR	2	3.2%
8	DANTEWADA	0	0.0%
9	DHAMTARI	2	3.2%
10	DURG	0	0.0%
11	GARIYABAND	2	3.2%
12	GPM	3	4.8%
13	JANJGIR	4	6.5%
14	JASHPUR	5	8.1%
15	KANKER	1	1.6%
16	KAWARDHA	6	9.7%
17	KCG	1	1.6%
18	KONDAGAON	4	6.5%
19	KORBA	1	1.6%
20	KORIA	0	0.0%
21	MAHASAMUND	4	6.5%
22	MCB	0	0.0%
23	MMA	0	0.0%
24	MUNGELI	3	4.8%
25	NARAYANPUR	0	0.0%
26	RAIGARH	4	6.5%
27	RAIPUR	1	1.6%
28	RAJNANDGAON	2	3.2%
29	SARGUJA	3	4.8%
30	SUKAMA	0	0.0%
31	SURAJPUR	1	1.6%
32	SAKTI	1	1.6%
33	SARANGARH-BILAIGARH	0	0.0%
State Average		62	100%

Figure-74: 32% of these deaths are in 15-49 year age group (n=62).

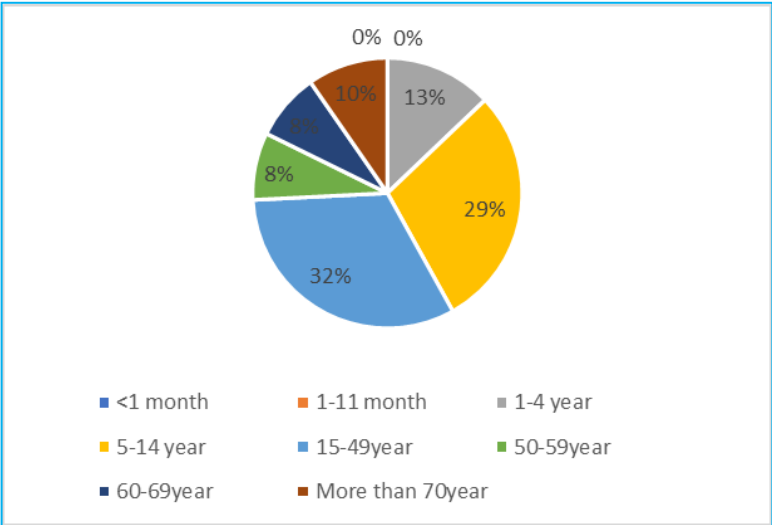


Figure-75: 69% of the deaths due to Rabies are of male persons (n=62).

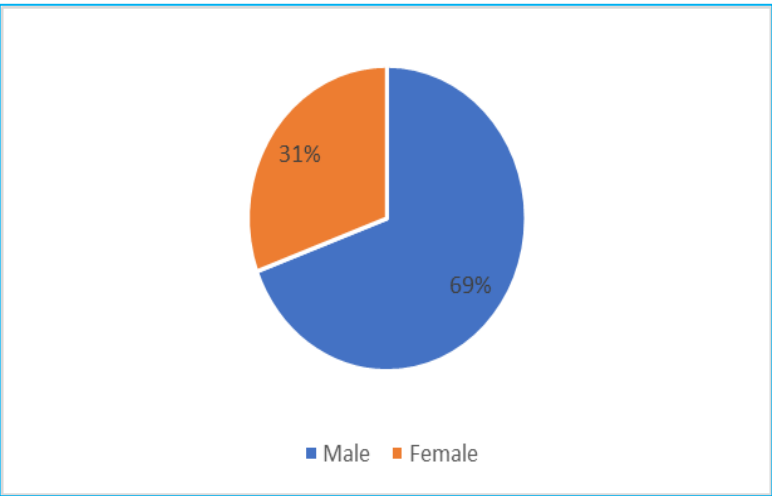


Figure-76: The number of deaths per month is slightly higher in January (n=62).

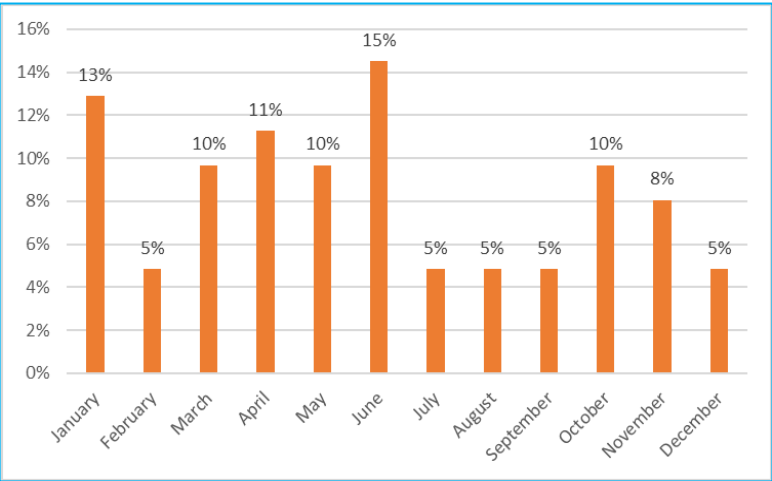


Table 2: Deaths due to HIV-AIDS:

VHSNCs have reported 105 deaths during 2022 for which the cause is recorded as HIV-AIDS

District	Number of deaths reported	%
BAALOD	8	8%
BALODABAZAAR	10	10%
BALRAMPUR	1	1%
BASTAR	3	3%
BEMETARA	2	2%
BILASPUR	4	4%
DHAMTARI	1	1%
DURG	13	12%
GPM	1	1%
JANJGIR	6	6%
KAWARDHA	13	12%
KORBA	2	2%
KORIA	1	1%
MAHASAMUND	2	2%
MCB	1	1%
RAIPUR	24	23%
RAJNANDGAON	5	5%
SARGUJA	2	2%
SURAJPUR	1	1%
Sakti	1	1%
Sarangarh-Bilaigarh	4	4%
Total	105	100%

Figure-77: 73% of these deaths are in 15-49 year age group (n=105).

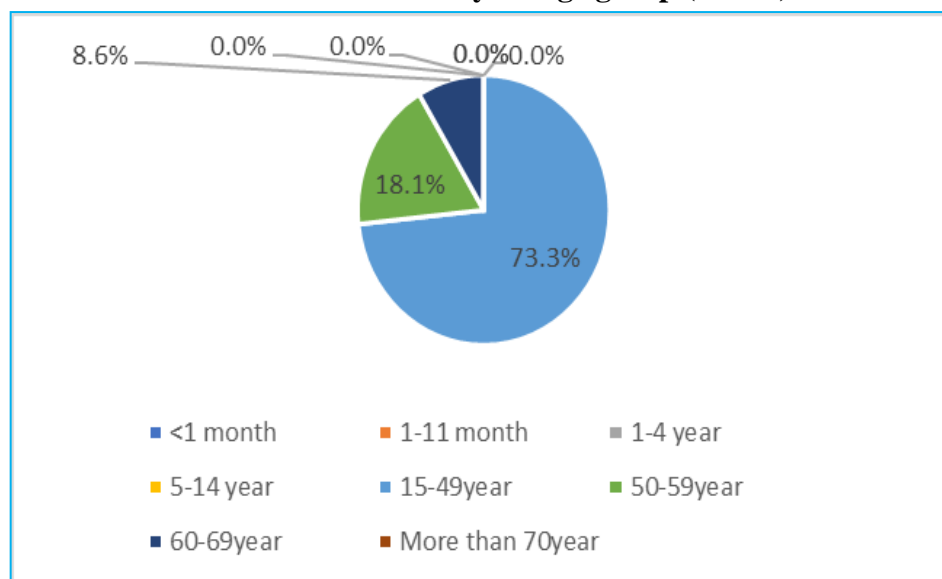


Figure 78: 69% of the deaths are of male persons (n=105).

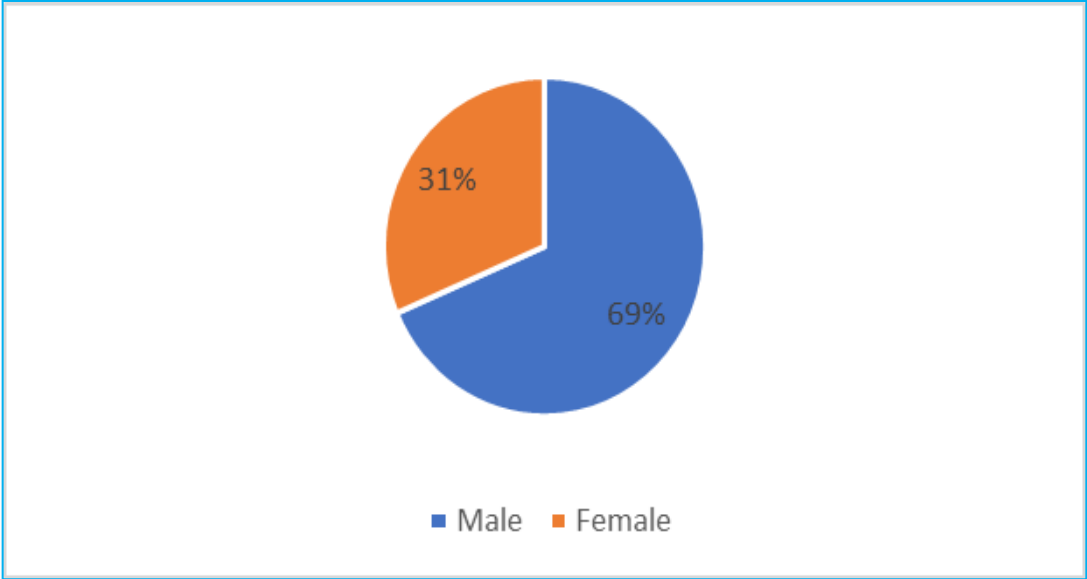
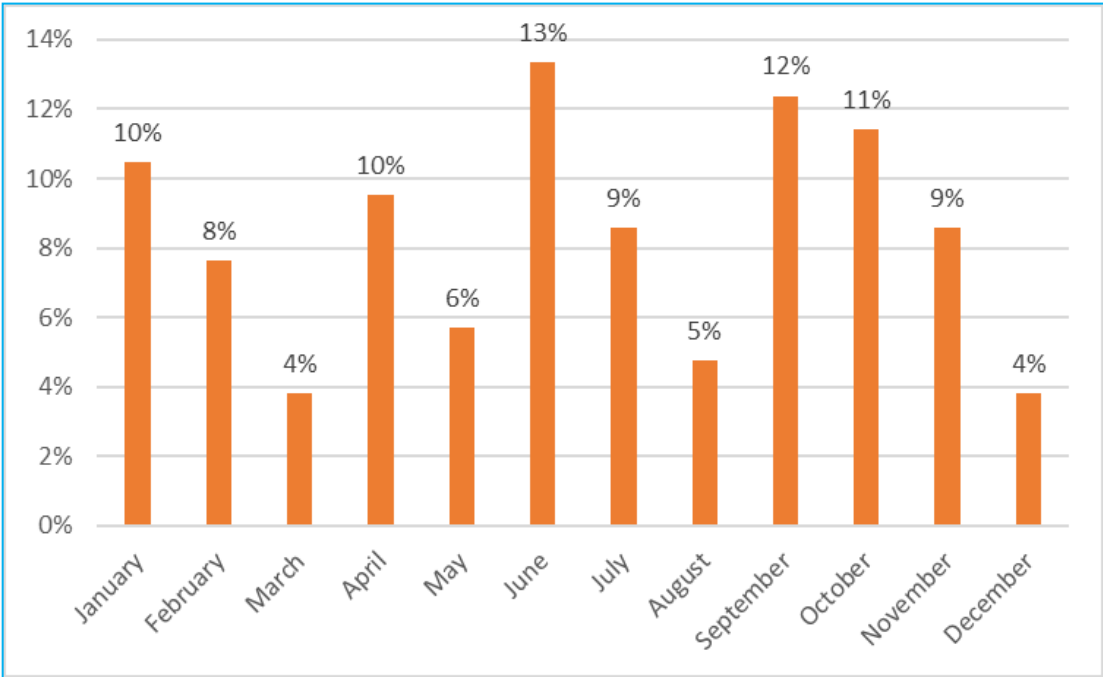


Figure-79: The number of deaths per month does not seem to have a seasonal pattern (n=105).



Annexure – II

Table 3: District wise no. of Deaths in 5 to 14 years age group in 2022

The report covers 2124 deaths in the 5-14 year age group in rural areas of the state.

District	Number of deaths reported	%
BAALOD	85	4%
BALODABAZAAR	95	4%
BALRAMPUR	44	2%
BASTAR	69	3%
BEMETARA	77	4%
BIJAPUR	26	1%
BILASPUR	97	5%
DANTEWADA	39	2%
DHAMTARI	119	6%
DURG	79	4%
GARIYABAND	87	4%
GPM	28	1%
JANJGIR	86	4%
JASHPUR	82	4%
KANKER	82	4%
KAWARDHA	83	4%
KCG	44	2%
KONDAGAON	65	3%
KORBA	62	3%
KORIA	11	1%
MAHASAMUND	104	5%
MCB	17	1%
MMA	43	2%
MUNGELI	43	2%
NARAYANPUR	10	0%
RAIGARH	95	4%
RAIPUR	110	5%
RAJNANDGAON	80	4%
SARGUJA	56	3%
SUKAMA	22	1%
SURAJPUR	64	3%
SAKTI	61	3%
SARANGARH-BILAIGARH	59	3%
Total	2124	100%

Figure-80: The 5-14 year age group deaths recorded monthly are higher in September (n=2124).

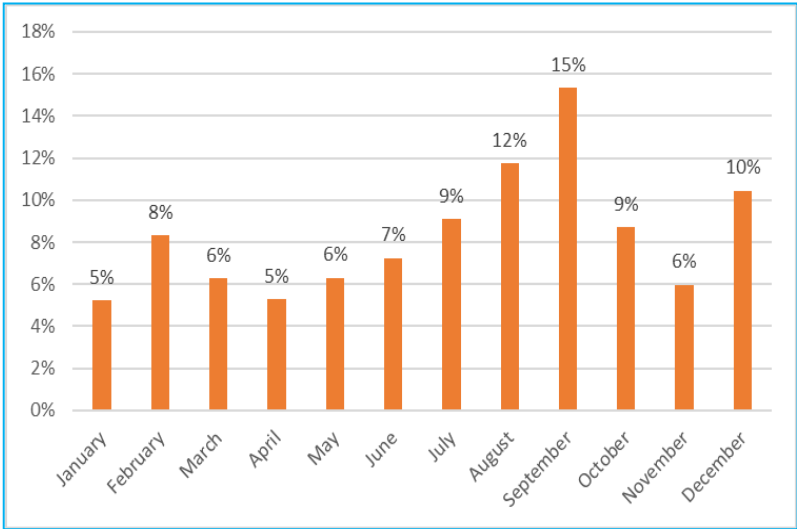


Figure-81: 56% of the 5-14 year age group deaths recorded were of male children (n=2124).

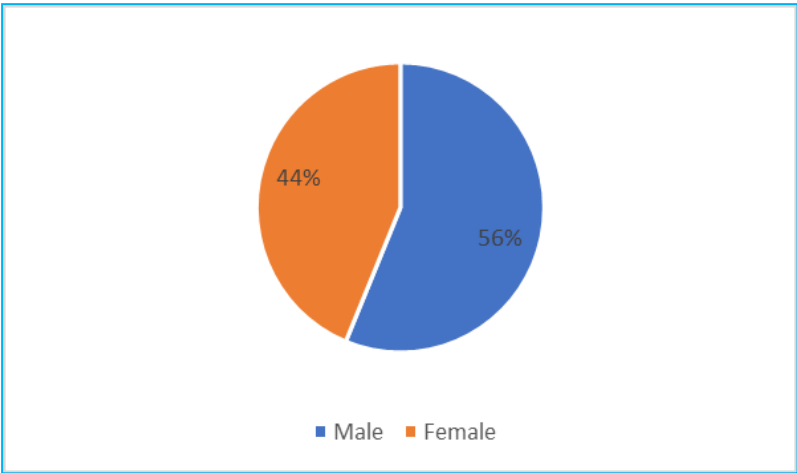


Table 4: Cause wise no. of Deaths in 5 to 14 years age group in 2022

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

Reported Causes	Number of deaths reported in 2022	% in 2022	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accident	493	23.2%	16.3%	20.0%	19%	21%	21%	18%	15%	12%	14%
Convulsion	81	3.8%	2.9%	3.3%	4%	4%	4%	3%	2%	2%	1%
Fever/Malaria	155	7.3%	9.5%	5.2%	7%	6%	10%	12%	14%	16%	17%
Jaundice	107	5.0%	6.0%	6.2%	6%	7%	7%	7%	6%	7%	6%
Malnutrition	12	0.6%	0.7%	0.7%	0%	1%	1%	1%	1%	1%	1%
Pneumonia	41	1.9%	1.3%	1.2%	1%	2%	2%	2%	2%	2%	1%
Snake bite	152	7.2%	6.6%	7.2%	5%	5%	5%	4%	5%	5%	4%
Diarrhoea	89	4.2%	2.6%	2.2%	3%	3%	4%	4%	3%	4%	3%
T.B.	22	1.0%	0.7%	0.8%	1%	1%	1%	1%	1%	1%	1%
Rabies	18	0.8%	0.7%	1.1%	1%	1%	1%	1%	1%	1%	2%
Congenital Heart Disease/Anomalies	37	1.7%	6.8%	9.2%	10%	9%	8%	3%			
Digestive Disease	139	6.5%	6.3%	7.0%	6%	8%	7%	5%			
Kidney related diseases	68	3.2%	2.3%	1.5%	0%	0%	0%	0%			
Diabetes	21	1.0%	1.2%	1.3%	1%	1%	1%	1%			
Cancer	78	3.7%	3.4%	3.1%	4%	4%	3%	3%			
Sickel Cell Anaemia	83	3.9%	3.4%	2.9%	4%	4%	4%	2%			
HIV/AIDS	0	0.0%	0.0%	0.1%	0%	0%	0%	0%			
Corona	3	0.1%	1.6%	0.2%							
Cough & Cold	4	0.2%	0.2%	0.1%							
Respiratory diseases	43	2.0%	1.3%	1.3%							
Anaemia	54	2.5%	2.1%	2.7%							
Chicken pox	19	0.9%	0.9%	0.5%							
Other	405	19.1%	23.2%	22.3%	27%	24%	23%	33%	49%	49%	50%
Total	2124	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table 5: District wise no. of Deaths in 15 to 49 years age group in 2022

The report covers 36706 deaths in the 15-49 year age group in rural areas of the state.

District	Number of deaths reported	%
BAALOD	1481	4%
BALODABAZAAR	1803	5%
BALRAMPUR	856	2%
BASTAR	1213	3%
BEMETARA	1280	3%
BIJAPUR	441	1%
BILASPUR	1587	4%
DANTEWADA	566	2%
DHAMTARI	1438	4%
DURG	1395	4%
GARIYABAND	1346	4%
GPM	508	1%
JANJGIR	1622	4%
JASHPUR	1311	4%
KANKER	1138	3%
KAWARDHA	1309	4%
KCG	654	2%
KONDAGAON	1230	3%
KORBA	946	3%
KORIA	196	1%
MAHASAMUND	1713	5%
MCB	285	1%
MMA	664	2%
MUNGELI	768	2%
NARAYANPUR	162	0%
RAIGARH	2078	6%
RAIPUR	2365	6%
RAJNANDGAON	1418	4%
SARGUJA	843	2%
SUKAMA	416	1%
SURAJPUR	1141	3%
Sakti	1256	3%
Sarangarh-Bilaigarh	1277	3%
Total	36706	100%

Figure-82: The 15-49 year age group deaths recorded monthly are slightly higher in September to December (n=36706).

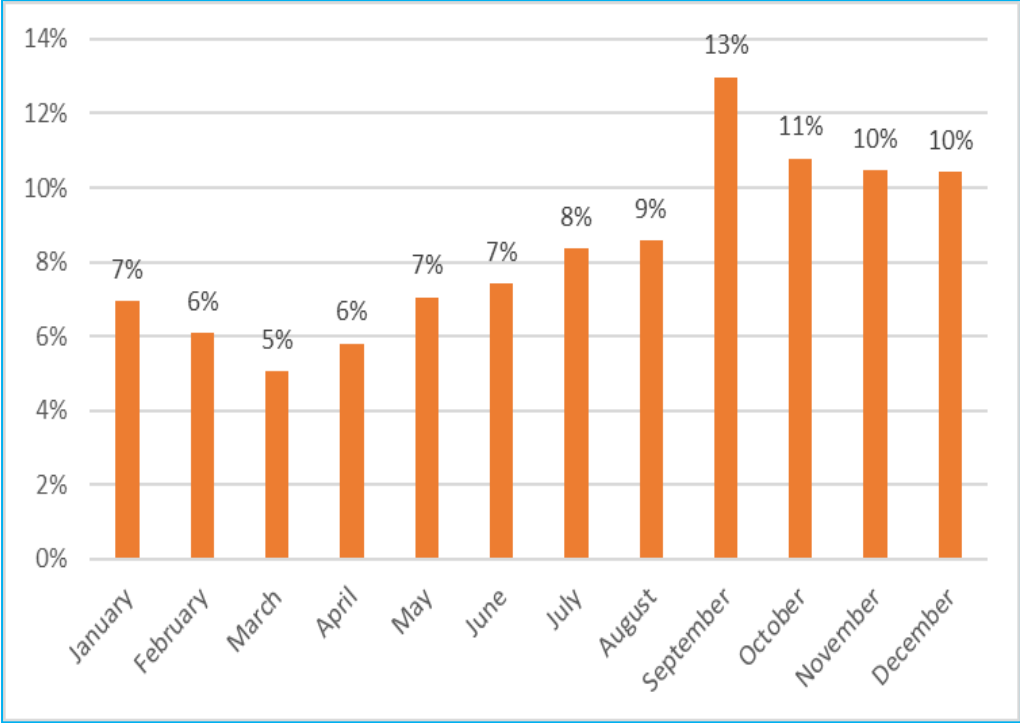


Figure-83: 57% of the 15-49 year age group deaths recorded were of male persons (n=36706).

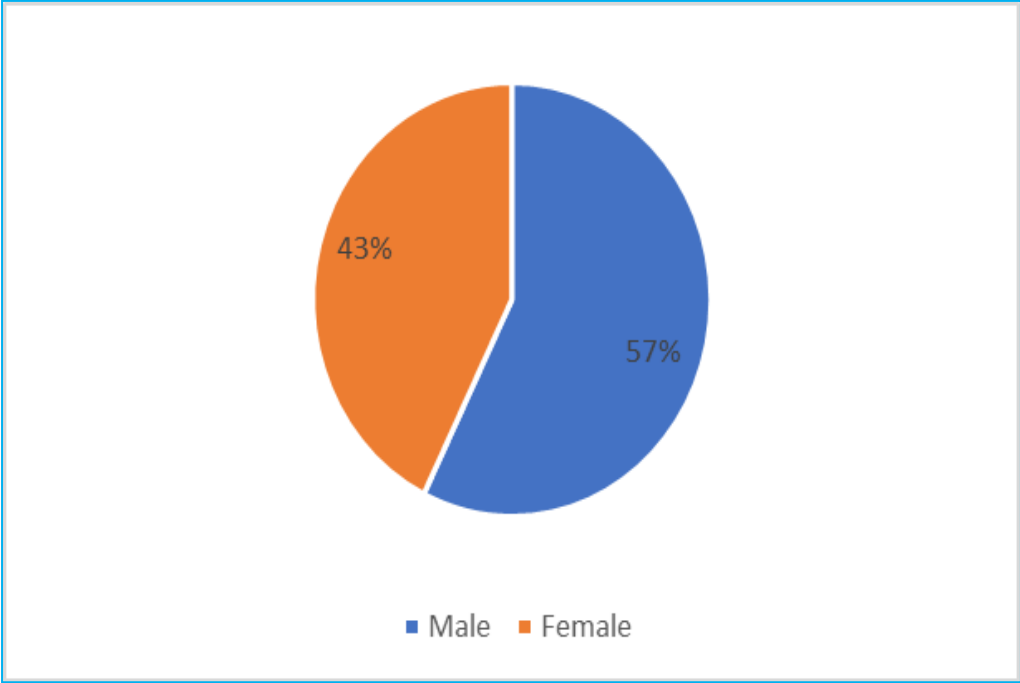


Table 6: Cause wise no. of Deaths in 15 to 49 years age group in 2022

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

Reported Causes	Number of deaths reported in 2022	% in 2022	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidental	5470	14.9%	11.5%	14.8%	17%	17%	16%	13%	14%	13%	12%
Convulsion	321	0.9%	0.6%	1.0%	1%	1%	1%	1%	1%	1%	1%
Fever/Malaria	675	1.8%	3.6%	1.7%	2%	2%	2%	3%	5%	6%	6%
Jaundice	1089	3.0%	3.0%	3.7%	3%	3%	4%	4%	4%	4%	3%
Malnutrition	16	0.0%	0.1%	0.0%	0%	0%	0%	0%	0%	0%	0%
Murder	480	1.3%	0.9%	1.2%	1%	1%	1%	1%	1%	1%	1%
Pneumonia	87	0.2%	0.4%	0.2%	0%	0%	0%	0%	0%	0%	0%
Snake bite	420	1.1%	1.1%	1.7%	1%	1%	1%	2%	2%	2%	2%
Diarrhoea	345	0.9%	0.8%	0.8%	1%	1%	1%	1%	1%	1%	2%
T.B.	874	2.4%	2.3%	2.5%	3%	3%	4%	4%	5%	4%	4%
Suicide	4833	13.2%	10.0%	12.8%	13%	11%	11%	10%	13%	12%	11%
Rabies	20	0.1%	0.1%	0.1%	0%	0%	0%	0%	0%	0%	0%
Maternal cause	202	0.6%	0.5%	1.1%	1%	1%	1%	1%	2%	2%	2%
High BP	708	1.9%	1.9%	1.4%	1%						
Stroke	2078	5.7%	4.7%	5.3%	5%						
Heart Attack/Disease	4501	12.3%	10.9%	11.3%	11%	17%	16%	8%			
Cancer	2228	6.1%	5.1%	6.0%	7%	7%	7%	6%			
Digestive Disease	1477	4.0%	3.9%	5.5%	4%	7%	6%	4%			
Diabetes	967	2.6%	3.0%	3.0%	3%	3%	3%	2%			
Sickle Cell Anaemia	457	1.2%	1.1%	1.3%	1%	1%	1%	1%			
HIV/AIDS	77	0.2%	0.2%	0.3%	0%	0%	0%	0%			
Kidney related diseases	2076	5.7%	4.5%	4.5%	1%	1%	0%	0%			
Corona	55	0.1%	10.6%	0.9%							
Cough & Cold	35	0.1%	0.2%	0.1%							
Respiratory diseases	662	1.8%	2.8%	1.7%							
Anaemia	790	2.2%	2.2%	2.1%							
Chicken pox	41	0.1%	0.2%	0.2%							
Epilepsy	584	1.6%	1.2%	1.6%							
Mental illness	386	1.1%	0.7%	1.0%							
Dengue	11	0.0%	0.0%	0.0%							
Other	4741	12.9%	11.9%	12.1%	23%	21%	24%	37%	52%	54%	56%
Total	36706	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table 7: District wise no. of Deaths in 50 to 59 years age group in 2022

The report covers 18150 deaths in the 50-59 year age group in rural areas of the state.

District	Number of deaths reported	%
BAALOD	682	4%
BALODABAZAAR	878	5%
BALRAMPUR	533	3%
BASTAR	589	3%
BEMETARA	665	4%
BIJAPUR	186	1%
BILASPUR	834	5%
DANTEWADA	296	2%
DHAMTARI	663	4%
DURG	697	4%
GARIYABAND	635	3%
GPM	220	1%
JANJGIR	800	4%
JASHPUR	670	4%
KANKER	552	3%
KAWARDHA	627	3%
KCG	321	2%
KONDAGAON	553	3%
KORBA	464	3%
KORIA	97	1%
MAHASAMUND	859	5%
MCB	159	1%
MMA	292	2%
MUNGELI	414	2%
NARAYANPUR	87	0%
RAIGARH	1075	6%
RAIPUR	1158	6%
RAJNANDGAON	669	4%
SARGUJA	428	2%
SUKAMA	177	1%
SURAJPUR	574	3%
Sakti	626	3%
Sarangarh-Bilaigarh	670	4%
Total	18150	100%

Figure-84: The 50-59 year age group deaths recorded monthly are slightly higher in December and January (n=18150).

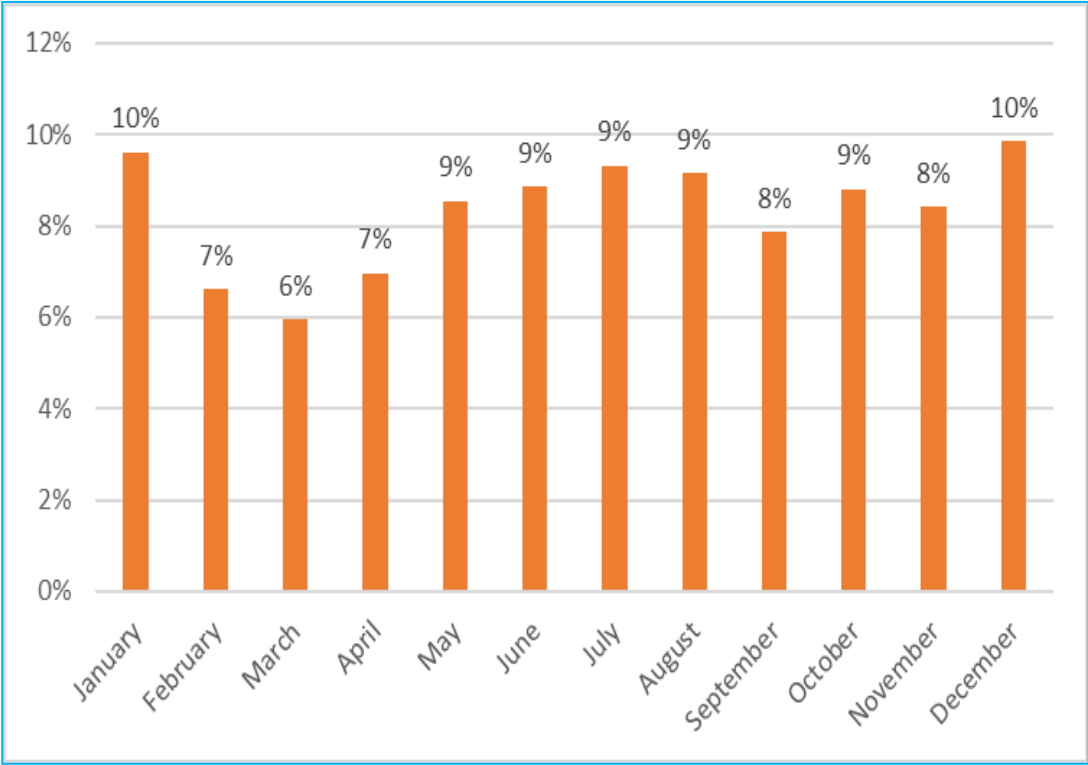


Figure-85: 59% of the 50-59 year age group deaths recorded were of male persons (n=18150).

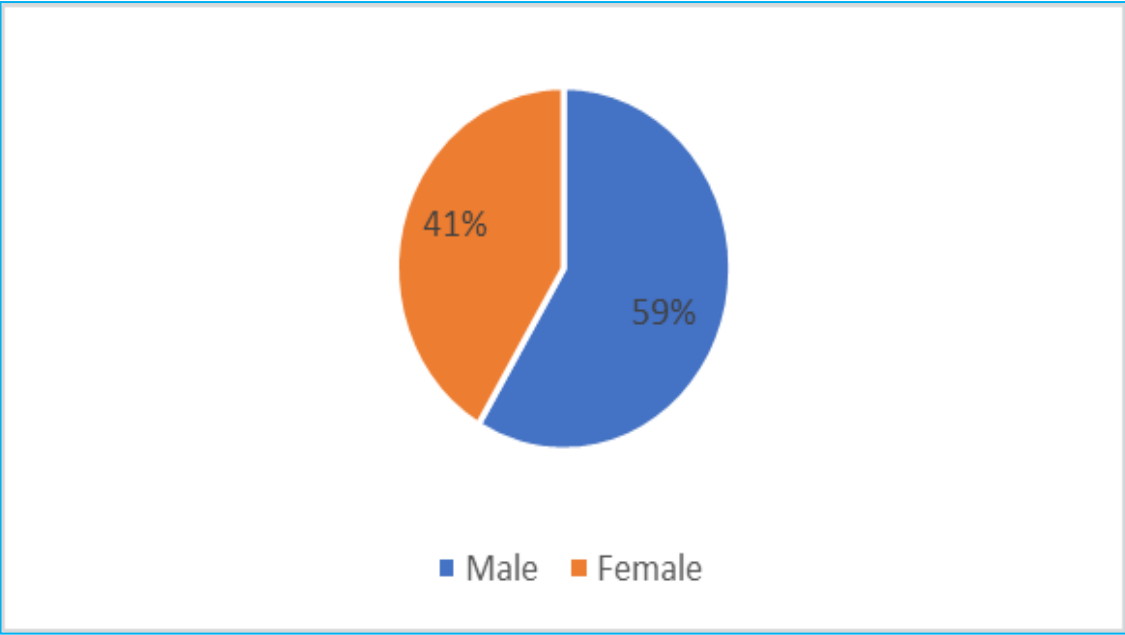


Table 8: Cause wise no. of Deaths in 50 to 59 years age group in 2022

In 50-59 years age group, Cardiovascular diseases, Cancer, Accidents, Kidney related diseases, Diabetes, Respiratory diseases, Suicide and TB are the leading reported causes of death. Deaths with Fever/Malaria has halved over last 5 years.

Reported Causes	Number of deaths reported in 2022	% in 2022	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidental	1262	7.0%	4.6%	6.0%	7%	7%	6%	6%	6%	5%	5%
Convulsion	43	0.2%	0.2%	0.4%	0%	0%	0%	0%	0%	0%	0%
Fever/Malaria	199	1.1%	3.5%	1.1%	1%	1%	1%	2%	4%	5%	4%
Jaundice	222	1.2%	1.1%	1.6%	2%	1%	2%	2%	2%	2%	1%
Malnutrition	6	0.0%	0.0%	0.0%	0%	0%	0%	0%	0%	0%	0%
Murder	105	0.6%	0.4%	0.6%	1%	1%	0%	1%	1%	1%	0%
Pneumonia	27	0.1%	0.3%	0.1%	0%	0%	0%	0%	0%	0%	0%
Snake bite	96	0.5%	0.4%	0.8%	1%	1%	1%	1%	1%	1%	1%
Diarrhoea	126	0.7%	0.5%	0.5%	1%	1%	1%	1%	1%	1%	1%
T.B.	463	2.6%	2.0%	2.5%	3%	3%	4%	4%	5%	4%	5%
Suicide	705	3.9%	2.8%	3.9%	4%	3%	3%	3%	4%	3%	4%
Rabies	5	0.0%	0.1%	0.1%	0%	0%	0%	0%	0%	0%	0%
High BP	691	3.8%	3.9%	3.0%	2%						
Stroke	2904	16.0%	13.4%	15.2%	16%						
Heart Attack/Disease	3406	18.8%	15.5%	17.9%	17%	33%	31%	12%			
Cancer	1510	8.3%	6.5%	8.8%	9%	9%	9%	8%			
Diabetes	971	5.3%	6.0%	6.4%	7%	5%	5%	6%			
Digestive Disease	708	3.9%	3.4%	5.2%	4%	8%	6%	4%			
Sickle Cell Anemia	46	0.3%	0.2%	0.4%	0%	0%	0%	0%			
Kidney related diseases	1180	6.5%	4.8%	4.9%	1%	1%	0%	0%			
HIV/AIDS	19	0.1%	0.1%	0.1%	0%	0%	0%	0%			
Corona	36	0.2%	11.3%	1.3%							
Cough & Cold	10	0.1%	0.3%	0.1%							
Respiratory diseases	556	3.1%	4.2%	3.4%							
Anemia	250	1.4%	1.5%	1.5%							
Chicken pox	6	0.0%	0.1%	0.1%							
Epilepsy	131	0.7%	0.4%	0.6%							
Mental illness	112	0.6%	0.5%	0.7%							
Dengue	1	0.0%	0.0%	0.0%							
Other	2354	13.0%	11.9%	13.0%	27%	26%	29%	50%	76%	78%	79%
Total	18150	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table 9: District wise no. of Deaths in 60 to 69 years age group in 2022

The report covers 24035 deaths in the 60-69 year age group in rural areas of the state.

District	Number of deaths reported	%
BAALOD	964	4%
BALODABAZAAR	1155	5%
BALRAMPUR	580	2%
BASTAR	743	3%
BEMETARA	920	4%
BIJAPUR	254	1%
BILASPUR	1037	4%
DANTEWADA	382	2%
DHAMTARI	853	4%
DURG	897	4%
GARIYABAND	840	3%
GPM	319	1%
JANJGIR	1107	5%
JASHPUR	817	3%
KANKER	748	3%
KAWARDHA	834	3%
KCG	451	2%
KONDAGAON	750	3%
KORBA	579	2%
KORIA	127	1%
MAHASAMUND	1161	5%
MCB	179	1%
MMA	413	2%
MUNGELI	506	2%
NARAYANPUR	112	0%
RAIGARH	1471	6%
RAIPUR	1605	7%
RAJNANDGAON	935	4%
SARGUJA	586	2%
SUKAMA	221	1%
SURAJPUR	701	3%
SAKTI	897	4%
SARANGARH- BILAIGARH	891	4%
Total	24035	100%

Figure-86: The 60-69 year age group deaths recorded monthly are slightly higher in January (n=24035).

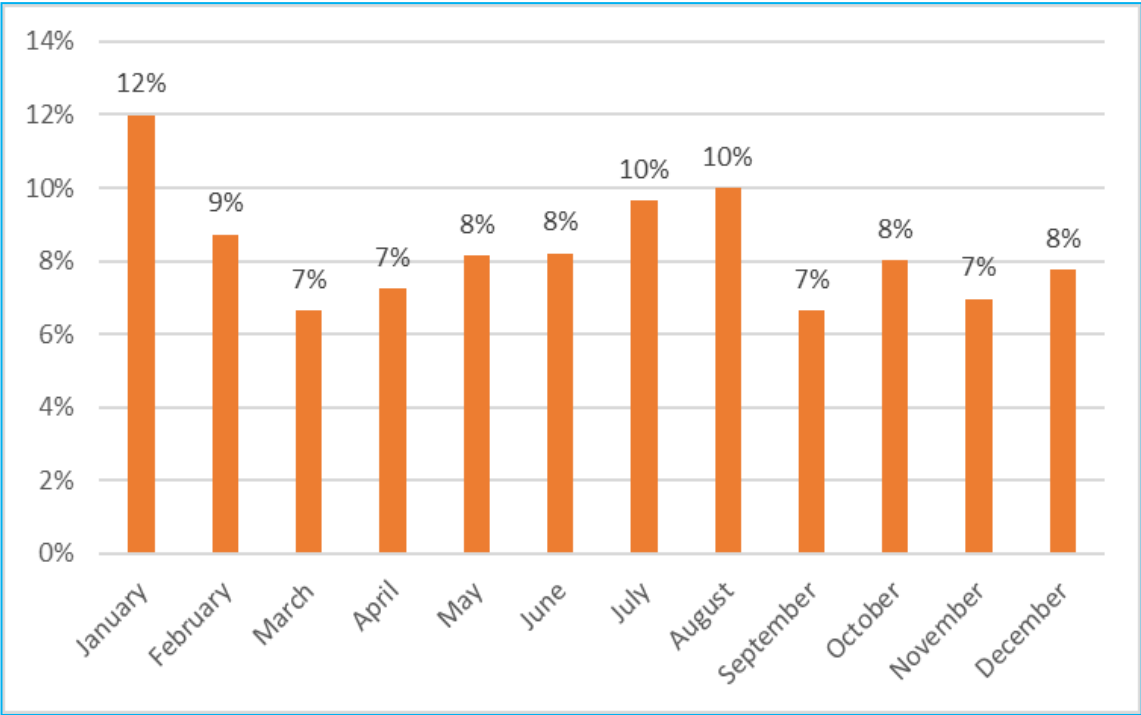


Figure-87: 59% of the 60-69 year age group deaths recorded were of male persons (n=24035).

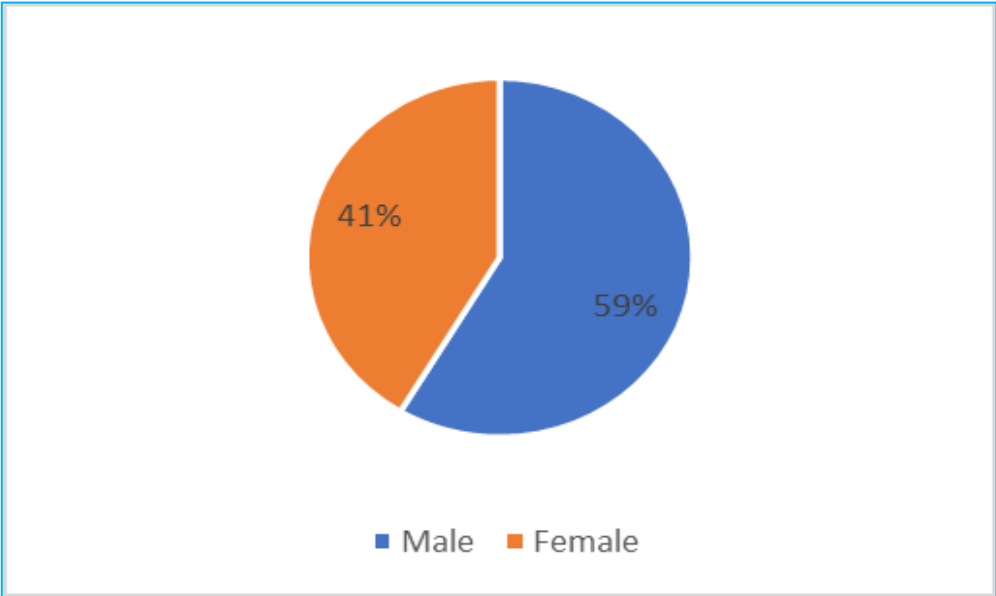


Table 10: Cause wise no. of Deaths in 60 to 69 years age group in 2022

For deaths in 60-69 years age groups, Cardiovascular diseases, Cancer, Diabetes, Respiratory diseases, Kidney related diseases, Accidents and Digestive diseases are the leading reported causes.

Reported Causes	Number of deaths reported in 2022	% in 2022	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidental	923	3.8%	3.0%	3.7%	4%	4%	4%	4%	3%	2%	2%
Convulsion	51	0.2%	0.2%	0.2%	0%	0%	0%	0%	0%	0%	0%
Fever/Malaria	279	1.2%	3.8%	1.2%	1%	1%	1%	3%	4%	5%	4%
Jaundice	162	0.7%	0.7%	1.0%	1%	1%	1%	1%	1%	1%	1%
Malnutrition	13	0.1%	0.1%	0.0%	0%	0%	0%	0%	0%	0%	0%
Murder	57	0.2%	0.2%	0.3%	0%	0%	0%	0%	0%	0%	0%
Pneumonia	23	0.1%	0.2%	0.1%	0%	0%	0%	0%	0%	0%	0%
Snake bite	64	0.3%	0.2%	0.3%	0%	0%	0%	0%	0%	0%	0%
Diarrhoea	149	0.6%	0.6%	0.4%	1%	1%	1%	1%	1%	1%	1%
T.B.	418	1.7%	1.5%	2.0%	2%	2%	3%	3%	3%	3%	2%
Suicide	393	1.6%	1.2%	1.7%	1%	1%	1%	1%	2%	1%	1%
Rabies	5	0.0%	0.0%	0.0%	0%	0%	0%	0%	0%	0%	0%
High BP	1201	5.0%	5.0%	3.8%	2%						
Stroke	6047	25.2%	21.6%	24.1%	23%						
Heart Attack/Disease	3998	16.6%	14.4%	16.0%	15%	39%	35%	11%			
Cancer	1425	5.9%	4.7%	6.2%	7%	6%	6%	6%			
Diabetes	1275	5.3%	6.4%	6.5%	6%	5%	6%	5%			
Digestive Disease	743	3.1%	2.9%	4.2%	4%	6%	5%	4%			
Sickle Cell Anaemia	40	0.2%	0.1%	0.1%	0%	0%	0%	0%			
HIV/AIDS	9	0.0%	0.0%	0.0%	0%	0%	0%	0%			
Kidney related diseases	910	3.8%	3.0%	3.1%	0%	0%	0%	0%			
Corona	41	0.2%	7.3%	1.2%							
Cough & Cold	24	0.1%	0.3%	0.1%							
Respiratory diseases	999	4.2%	5.0%	4.7%							
Anaemia	290	1.2%	1.4%	1.3%							
Chicken pox	11	0.0%	0.1%	0.0%							
Epilepsy	74	0.3%	0.3%	0.3%							
Mental illness	115	0.5%	0.4%	0.4%							
Old age	1169	4.9%	4.4%	3.5%							
Other	3127	13.0%	11.2%	13.3%	32%	32%	36%	61%	84%	86%	89%
Total	24035	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table 11: District wise no. of Deaths in above 70 years age group in 2022

The report covers 53341 deaths in the more than 70 year age group in rural areas of the state.

District	Number of deaths reported	%
BAALOD	2116	4%
BALODABAZAAR	2634	5%
BALRAMPUR	1266	2%
BASTAR	1534	3%
BEMETARA	2048	4%
BIJAPUR	522	1%
BILASPUR	2394	4%
DANTEWADA	827	2%
DHAMTARI	1845	3%
DURG	1982	4%
GARIYABAND	1973	4%
GPM	711	1%
JANJGIR	2322	4%
JASHPUR	2102	4%
KANKER	1724	3%
KAWARDHA	1857	3%
KCG	985	2%
KONDAGAON	1508	3%
KORBA	1310	2%
KORIA	306	1%
MAHASAMUND	2647	5%
MCB	404	1%
MMA	931	2%
MUNGELI	1170	2%
NARAYANPUR	221	0%
RAIGARH	3184	6%
RAIPUR	3490	7%
RAJNANDGAON	2166	4%
SARGUJA	1270	2%
SUKAMA	464	1%
SURAJPUR	1529	3%
Sakti	1955	4%
Sarangarh-Bilaigarh	1944	4%
Total	53341	100%

Figure-88: Deaths recorded monthly for this age group are slightly higher in August and January.

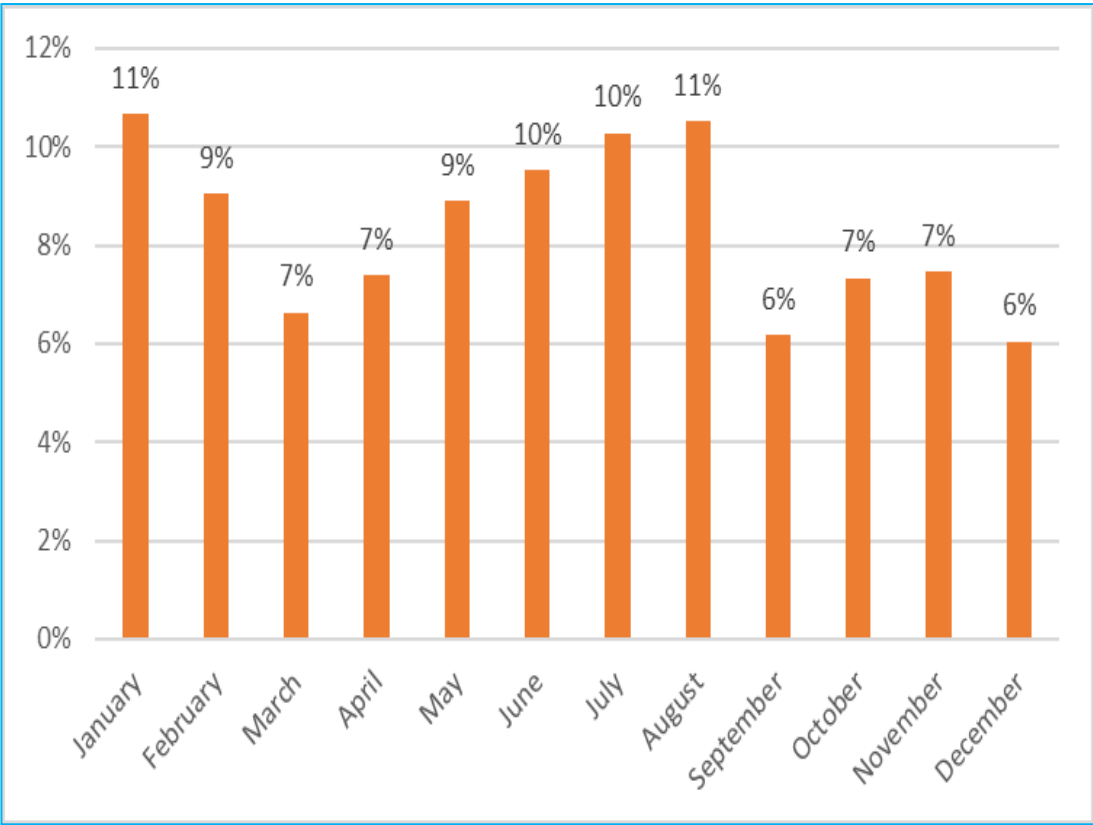


Figure-89: 58% of the More than 70 year age group deaths recorded were of male persons.

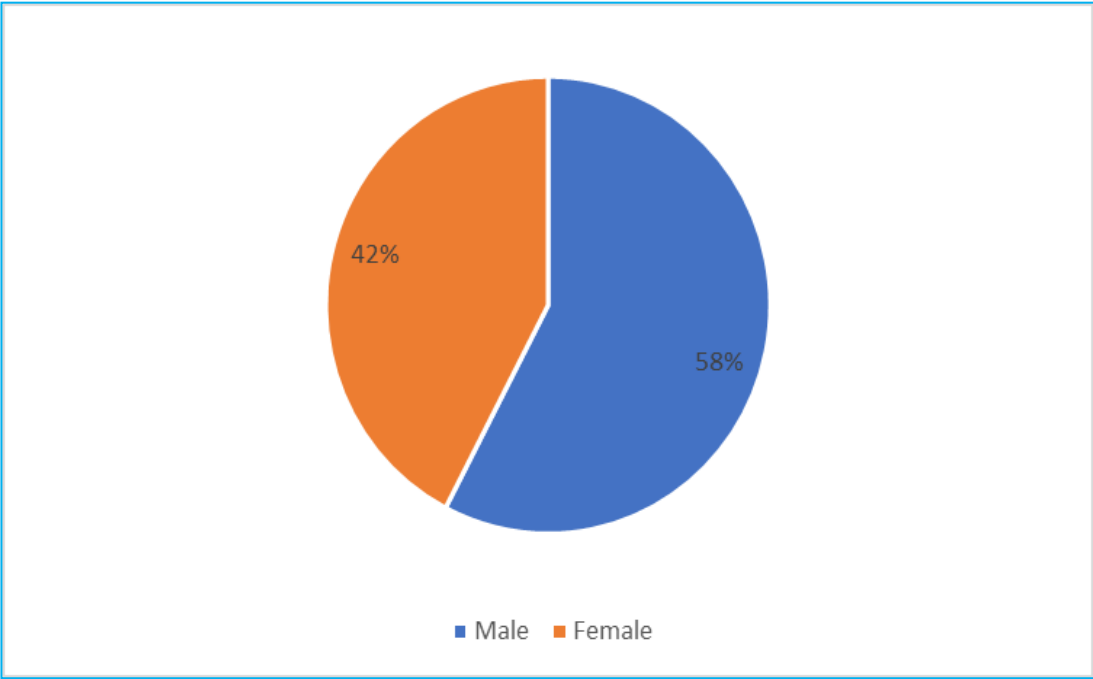


Table 12: Cause wise no. of Deaths in above 70 years age group in 2022

For these deaths, Cardiovascular diseases, Respiratory diseases, Diabetes, Cancer, Accidents and Digestive diseases are the leading reported causes.

Reported Causes	Number of deaths reported in 2022	% in 2022	% in 2021	% in 2020	% in 2019	% in 2018	% in 2017	% in 2016	% in 2015	% in 2014	% in 2013
Accidental	1467	2.8%	2.0%	2.5%	2%	3%	2%	2%	1%	1%	1%
Convulsion	87	0.2%	0.1%	0.2%	0%	0%	0%	0%	0%	0%	0%
Fever/Malaria	635	1.2%	3.5%	1.2%	1%	1%	1%	3%	3%	3%	2%
Jaundice	183	0.3%	0.3%	0.4%	0%	0%	1%	0%	0%	0%	0%
Malnutrition	40	0.1%	0.1%	0.0%	0%	0%	0%	0%	0%	0%	0%
Murder	36	0.1%	0.1%	0.1%	0%	0%	0%	0%	0%	0%	0%
Pneumonia	32	0.1%	0.1%	0.1%	0%	0%	0%	0%	0%	0%	0%
Snake bite	67	0.1%	0.1%	0.2%	0%	0%	0%	0%	0%	0%	0%
Diarrhoea	263	0.5%	0.5%	0.5%	0%	1%	1%	1%	1%	1%	0%
T.B.	423	0.8%	0.6%	0.7%	1%	1%	1%	1%	1%	1%	1%
Suicide	360	0.7%	0.5%	0.6%	1%	1%	1%	0%	1%	1%	0%
Rabies	6	0.0%	0.0%	0.0%	0%	0%	0%	0%	0%	0%	0%
High BP	2437	4.6%	3.6%	3.1%	1%						
Stroke	13693	25.7%	23.3%	25.8%	27%						
Heart Attack/Disease	5377	10.1%	9.1%	9.5%	10%	37%	32%	6%			
Diabetes	2028	3.8%	4.0%	4.3%	4%	4%	3%	3%			
Digestive Disease	1039	1.9%	1.8%	2.7%	2%	3%	3%	2%			
Cancer	1241	2.3%	2.0%	2.5%	3%	3%	3%	2%			
Kidney related diseases	893	1.7%	1.2%	1.3%	0%	0%	0%	0%			
Sickle Cell Anaemia	27	0.1%	0.0%	0.1%	0%	0%	0%	0%			
HIV/AIDS	0	0.0%	0.0%	0.0%	0%	0%	0%	0%			
Corona	43	0.1%	3.1%	0.5%							
Cough & Cold	56	0.1%	0.2%	0.1%							
Respiratory diseases	2958	5.5%	6.0%	6.9%							
Anaemia	577	1.1%	1.0%	1.4%							
Chicken pox	6	0.0%	0.0%	0.0%							
Epilepsy	77	0.1%	0.2%	0.1%							
Mental illness	158	0.3%	0.3%	0.3%							
Old age	9640	18.1%	17.8%	17.4%							
Other	9492	17.8%	18.5%	17.6%	46%	46%	52%	78%	92%	93%	95%
Total	53341	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%