



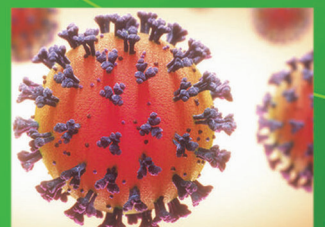
Government of Kerala



HEALTH AT A GLANCE 2019-20

Department of Health Services

Prepared by :
Health Information Cell
Directorate of Health Services



PREFACE

This publication titled “Health at a Glance 2019-20” provides the basic statistics and an insight into the scenario of health sector in Kerala. The publication provides details of various health infrastructures like number of facilities, human resources etc and also patient services provided by the various facilities. It also provides an overview of various health indicators used to measure and rank the performance of the state in the nation’s overall health sector.

This database will definitely serve as a guiding factor for the policy making processes undertaken by the Government of Kerala in health sector. It will also be a good source of reference to academicians and research scholars.

I appreciate the efforts taken by the Health Information Cell of Directorate of Health Services and the district statisticians whose combined efforts at large had contributed to this publication.



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Place: Thiruvananthapuram
Date: 24-07-2021

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ABBREVIATIONS

Sl No	Abbreviation	Description
1	SRS	Sample Registration System
2	NFHS	National Family Health Survey
3	HMIS	Health Management Information System
4	RCH	Reproductive Child Health
5	DHS	Department of Health Services
6	NHM	National Health Mission
7	DME	Department of Medical Education
8	MCH	Medical College Hospital
9	DH	District Hospital
10	GH	General Hospital
11	W&C	Women and Child
12	THQH	Taluk Head Quarters Hospital
13	TH	Taluk Hospital
14	CHC	Community Health Centre
15	FHC	Family Health Centre
16	PHC	Primary Health Centre
17	HSC	Health Sub Centre
18	UPHC	Urban Primary Health Centre
19	DTBC	District TB Centre
20	DVC	District Vector Control
21	GTSH	Govt Tribal Speciality Hospital
22	NBSU	New Born Stabilization Unit
23	SNCU	Special New Born Care Unit
24	MMR	Maternal Mortality Ratio
25	IMR	Infant Mortality Rate
26	NMR	Neonatal Mortality Rate

SI No	Abbreviation	Description
27	OPD	Out Patient Department
28	IPD	In Patient Department
29	AEFI	Adverse Event Following Immunization
30	HIV	Human Immuno Virus
31	TB	Tuberculo Bacillus
32	LEP	Leprosy Eradication Programme
33	ICU	Intensive Care Unit
34	ANC	Ante Natal Care
35	IPPI	Intensified Pulse Polio Immunization Programme
36	IMI	Intensified Mission Indradhanush
37	MTP	Medical Termination of Pregnancy
38	RNTCP	Revised National Tuberculosis Control Programme
39	TVM	Thiruvananthapuram
40	KLM	Kollam
41	PTA	Pathanamthitta
42	ALP	Alappuzha
43	KTM	Kottayam
44	IDK	Idukki
45	EKM	Ernakulam
46	TSR	Thrissur
47	PKD	Palakkad
48	MLP	Malappuram
49	KKD	Kozhikkode
50	WND	Wayanad
51	KNR	Kannur
52	KSD	Kasargod

KERALA TOPS NITI AAYOG HEALTH INDEX RANKING



According to the health index 2019 prepared by NITI AAYOG, Kerala is the top Performer



1. FACT SHEET



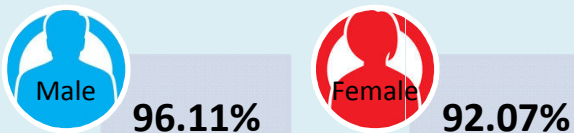
1. GENERAL INFORMATION

Geographical Area (Km ²)	38863
Rural Area (Km ²)	35611.14
Urban Area (Km ²)	3251.86
Districts	14
Taluks	77
Panchayaths	941
Number of Panchayath wards	15962
Blocks	152
Revenue Villages (including group village)	1664
Towns	520
Number of City Corporations	6
No. of Corp. Wards	414
Municipalities	87
No. of Municipal Wards	3078
No. of Legislative Assembly	140
No. of Parliament Constituencies	20

2. POPULATION (2011 CENSUS)

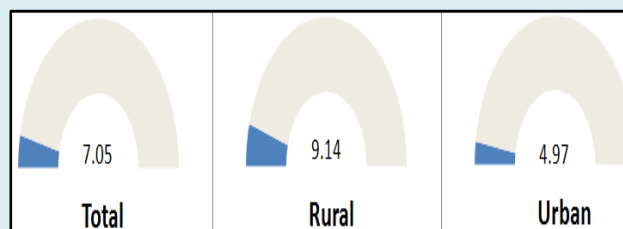
Population	Total	33406061
	Male	16027412
	Female	17378649
	Urban	17471135
	Rural	15934926
Sex Ratio		1084
SC Population	Total	3039573
	Male	1477808
	Female	1561765
ST Population	Total	484839
	Male	238203
	Female	246636
0-6 Population	Total	3472955
	Male	1768244
	Female	1704711
Sex Ratio (Child)		964
Population density (Persons/Km ²)		860

3. LITERACY RATE (CENSUS 2011)



Literacy Rate – 94%

4. PERCENTAGE OF POPULATION BELOW POVERTY LINE 2011-12 (RBI)

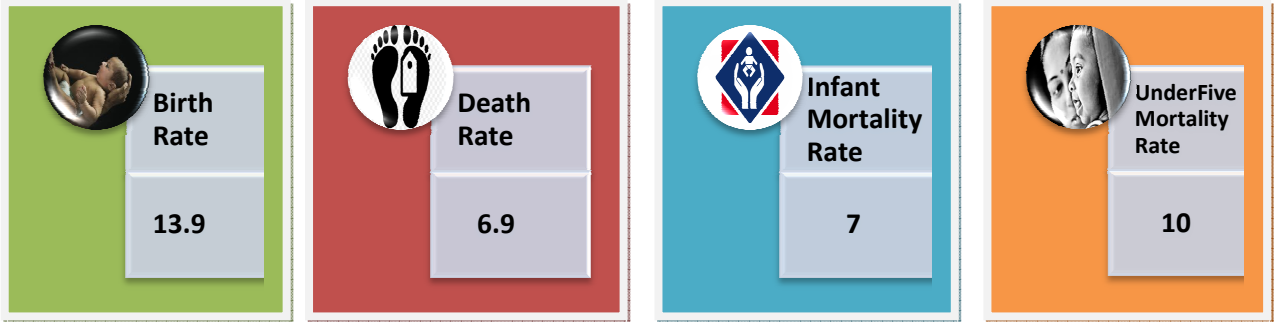


5. NUMBER OF MAJOR HEALTH FACILITIES UNDER DHS

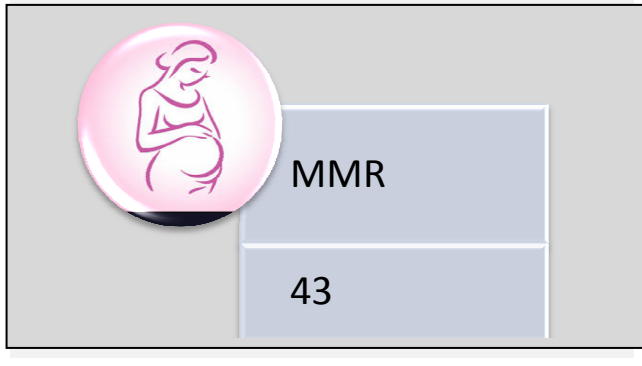


Type of Facility	Number
District Hospitals(DH)	18
General Hospitals(GH)	18
Women & Child Hospitals(W&C)	8
Taluk Head Quarters Hospitals(THQH)	48
Taluk Hospitals (TH)	38
Community Health Centers(CHC)	185
CHC s converted to / selected for Family Health Centers	39
Primary Health Centers(PHC)	199
PHCs converted /selected for FHC	543

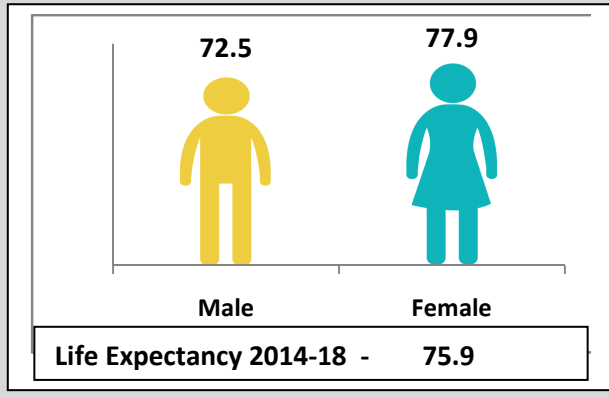
6. BIRTH RATE AND MORTALITY RATES (SRS 2018)



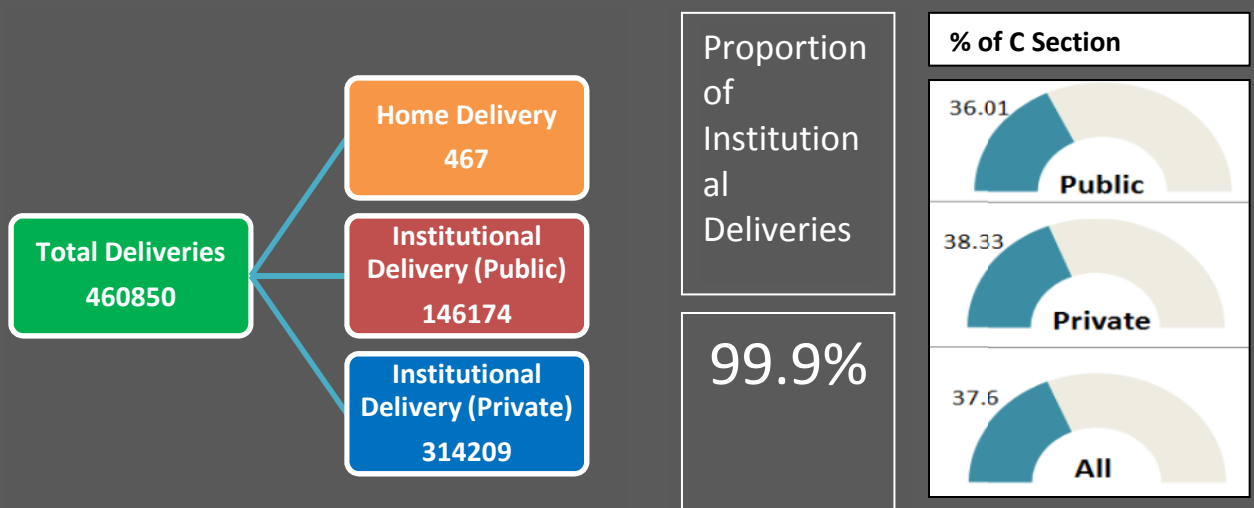
6.1 MATERNAL MORTALITY RATIO (MMR) SRS 2016-18



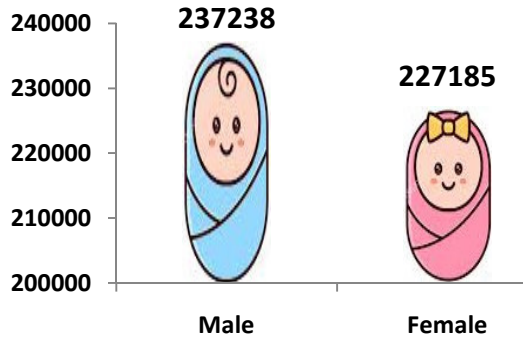
7. LIFE EXPECTANCY



8. DELIVERIES 2019-20 (SOURCE: HMIS)

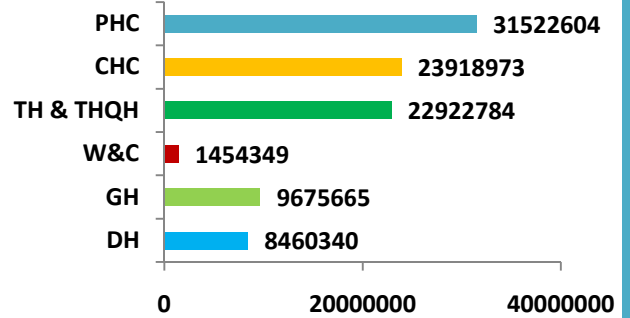


9. LIVE BIRTH 2019-20 (SOURCE : HMIS)



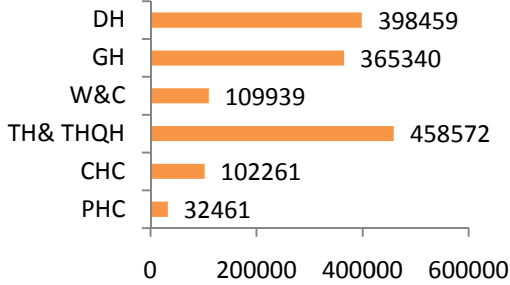
Live Birth 2019-20- 464,423

10. OPD BY TYPE OF FACILITY 2019-20 (SOURCE: HMIS)



Total Public OPD (including UPHC and excluding MCH) - 10,070,707

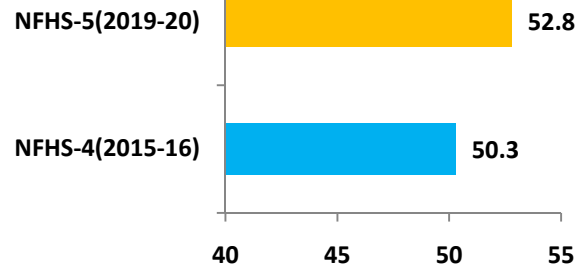
11. IPD BY TYPE OF FACILITY 2019-20 (HMIS)



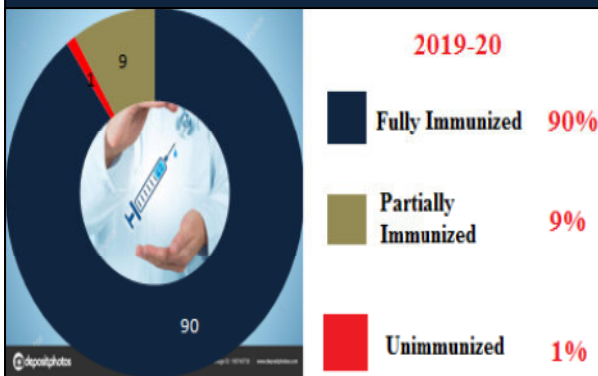
Total Public IPD (excluding MCH) - 1,501,645

12. FAMILY PLANNING (SOURCE NFHS-4 AND 5)

% of Current use of modern contraceptive method (Currently married women aged 15-49 years



13. FULL IMMUNIZATION COVERAGE 0-1 YEARS (RCH PORTAL)



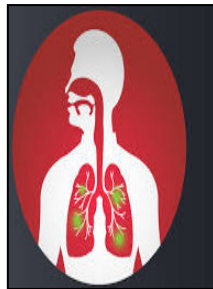
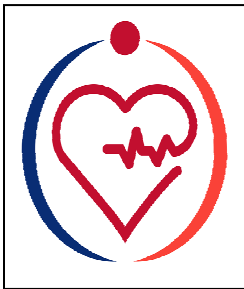
14. AEFI DEATHS 2019-20 (SOURCE : DHS)



ADVERSE EVENT FOLLOWING IMMUNIZATION (AEFI) DEATHS 2019-20

18

15. PREVALANCE RATE OF DISEASES IN KERALA 2019

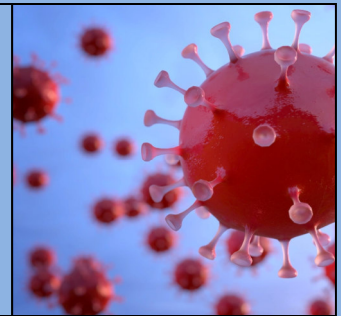


Disease	Prevalence Rate(Per 1000 population) 2019
Leprosy	0.025
Filaria	0.064
Malaria	0.02
Pulmonary Tuberculosis	0.477
Total TB Cases	0.752
Acute Diarrheal Diseases	16.285
Pneumonia	0.013
Enteric Fever	0.001
Measles	0.006
Acute Respiratory Infection	155.075
Chickenpox	0.886
Viral Hepatitis - A	0.048

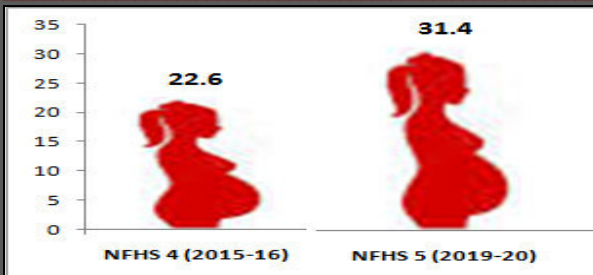
16. COVID 19 STATISTICS IN KERALA (AS ON 31.03.2020)

The first case of the COVID-19 pandemic in Kerala was confirmed in Thrissur on 30 January 2020.

Date	Confirmed Cases(Cumulative)	Recovered Cases(Cumulative)	Active Cases	Death(Cumulative)
31.03.2020	241	24	215	2



17. PERCENTAGE OF CHILDREN AGED 1-4 YEARS HAVING ANAEMIA (ANY <11.0 G/DL)



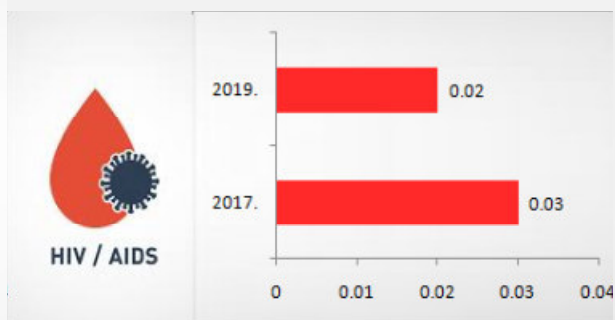
18. PERCENTAGE OF CHILDREN AGED 1-4 YEARS HAVING ANAEMIA (ANY <11.0 G/DL)



12.5%
2016-18

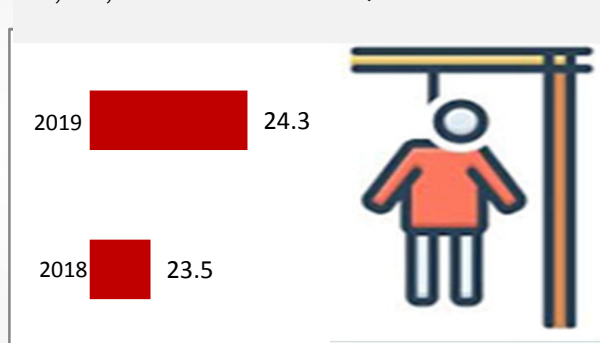
Source: Comprehensive National Nutrition Survey

19. HIV INCIDENCE PER 1000 UNINFECTED POPULATION



Source: India, HIV estimation report 2017 & 2019

20. SUICIDE MORTALITY RATE (PER 1,00,000 POPULATION)



Source: National Crime Record Bureau

21. OUT OF POCKET MEDICAL EXPENDITURE



item	Expenditure
Average medical expenditure per hospitalization in govt hospitals (excliding child birth)	4469
Average medical expenditure per hospitalization in private hospitals (excliding child birth)	28775
Average medical expenditure per hospitalization in hospitals (excliding child birth)	19109
Average medical expenditure per spell of ailment in op clinic	480
Average medical expenditure per hospitalization in govt hospitals (excliding child birth)	4469

Source: 75th Round National Sample Survey (July 2017- June 2018)

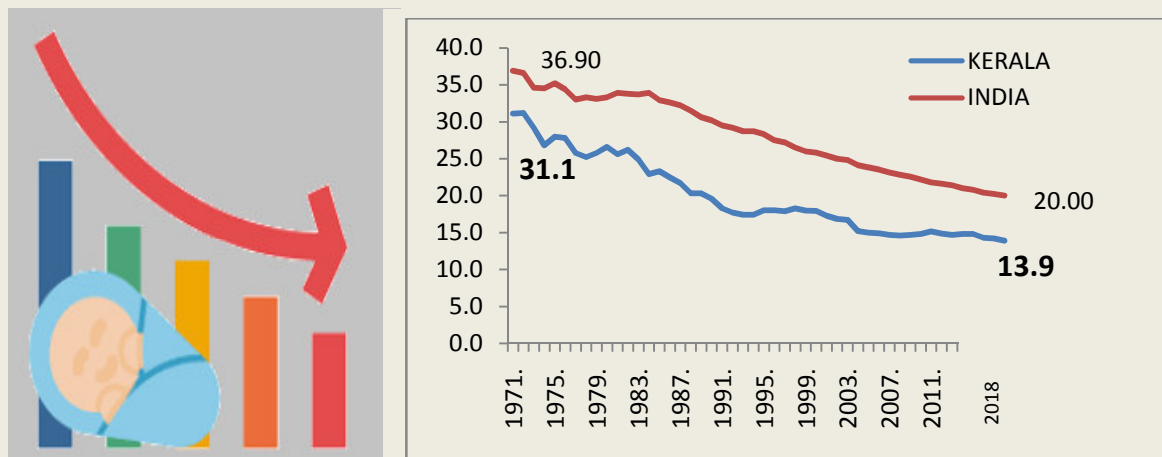


2 **KEY INDICATORS** **OF** **MAJOR SURVEYS** **ON** **HEALTH**

2.1 SAMPLE REGISTRATION SYSTEM (SRS)

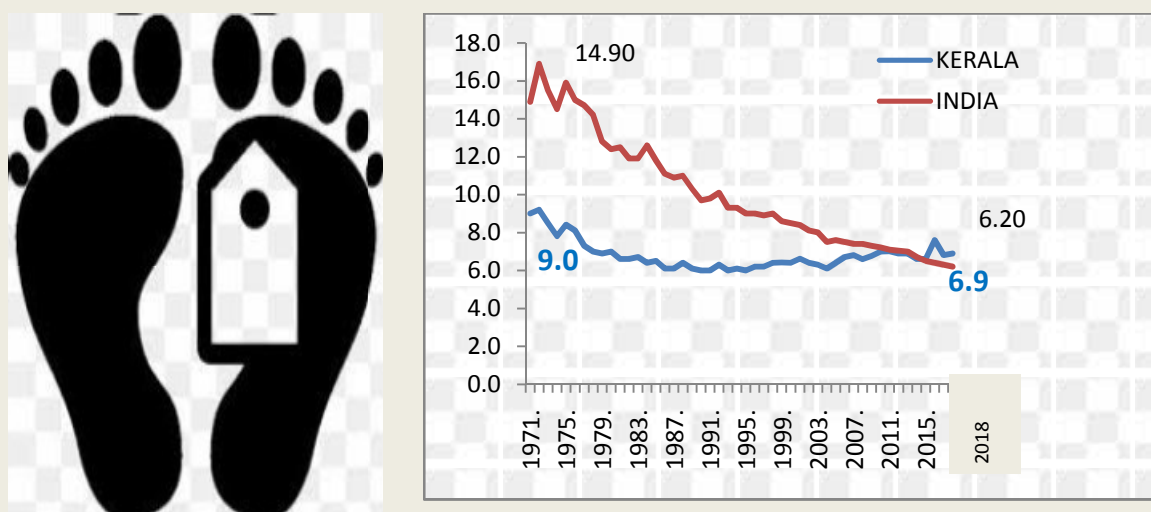
2.1.1 Time series Data on Major Indicators

2.1.1.1 BIRTH RATE



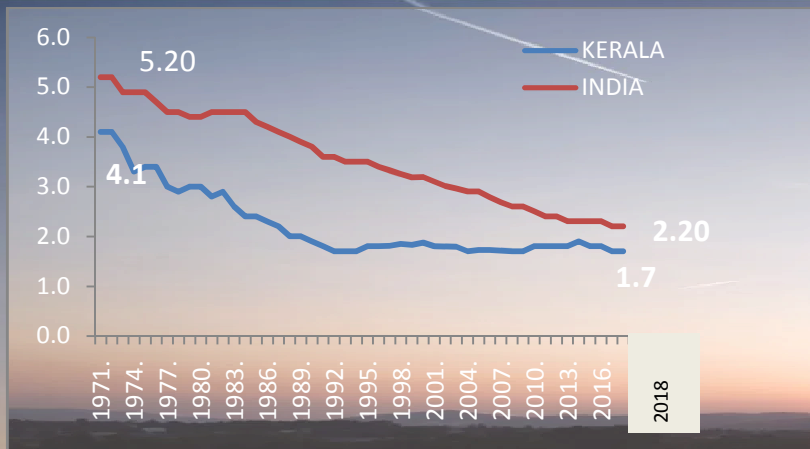
Year wise Birth rate is presented in Table 2.1.1.1

2.1.1.2 DEATH RATE



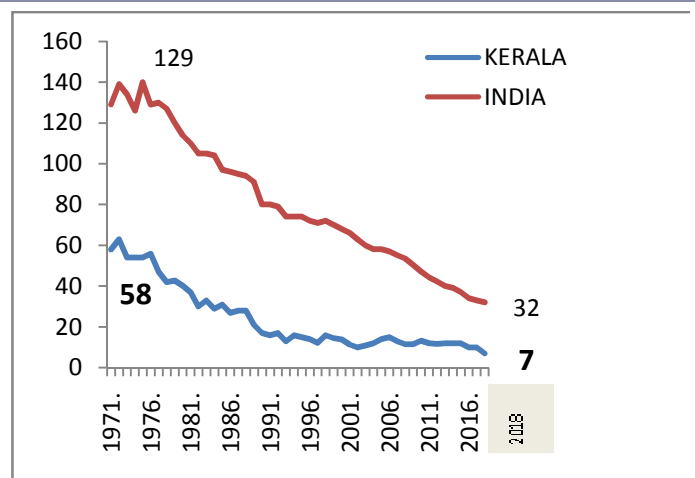
Year wise Death rate is presented in Table 2.1.1.2

2.1.1.3 TOTAL FERTILITY RATE



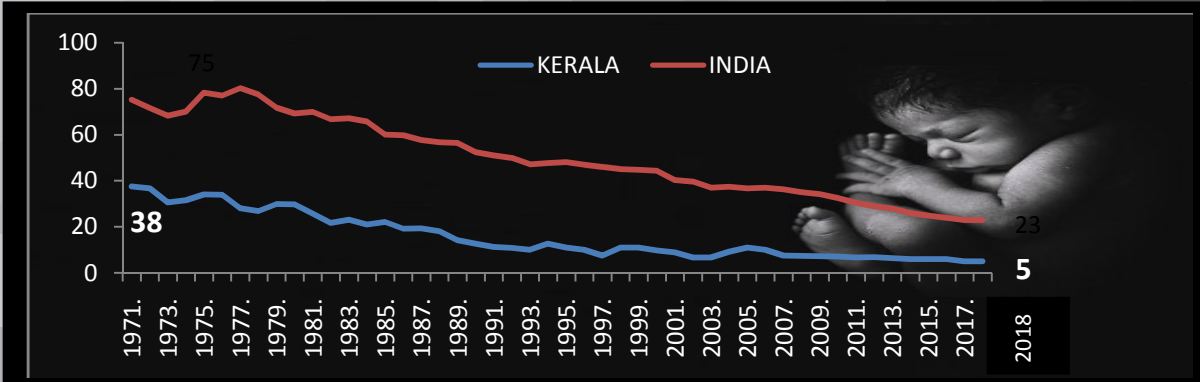
Year wise TFR is presented in Table 2.1.1.3

2.1.1.4 INFANT MORTALITY RATE



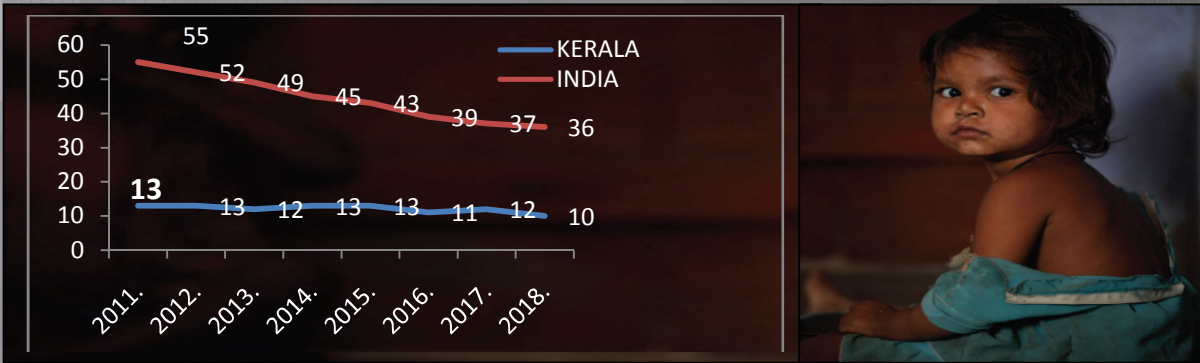
Year wise IMR is presented in Table 2.1.1.4

2.1.1.5 NEO NATAL MORTALITY RATE (NMR)

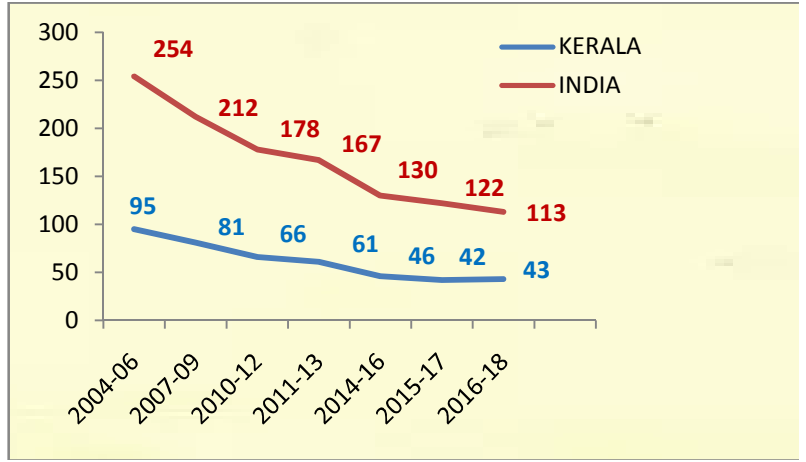


Year wise NMR is presented in Table 2.1.1.5

2.1.1.6 UNDER FIVE MORTALITY RATE (U5MR)



2.1.1.7 MATERNAL MORTALITY RATE (MMR)



Year	KERALA			INDIA		
	Rural+ Urban	Rural	Urban	Rural+ Urban	Rural	Urban
1971	31.1	31.3	29.6	36.90	38.90	30.10
1972	31.2	31.5	29.5	36.60	38.40	30.50
1973	29.2	29.4	28.5	34.60	35.90	28.90
1974	26.8	26.7	26.9	34.50	35.90	28.40
1975	28.0	28.1	27.5	35.20	36.70	28.50
1976	27.8	28.1	26.5	34.40	35.80	28.40
1977	25.8	26.1	24.1	33.00	34.30	27.80
1978	25.2	25.3	24.9	33.30	34.70	27.80
1979	25.8	26.3	23.9	33.10	34.30	28.30
1980	26.6	27.0	25.0	33.30	34.60	28.10
1981	25.6	26.0	23.5	33.90	35.60	27.00
1982	26.2	26.4	25.1	33.80	35.50	27.60
1983	24.9	25.0	24.9	33.70	35.30	28.30
1984	22.9	22.6	24.1	33.90	35.30	29.40
1985	23.3	23.1	24.1	32.90	34.30	28.10
1986	22.5	22.4	23.0	32.60	34.20	27.10
1987	21.7	21.5	22.3	32.20	33.70	27.40
1988	20.3	20.0	21.4	31.50	33.10	26.30
1989	20.3	20.2	20.5	30.60	32.20	25.20
1990	19.6	19.6	19.8	30.20	31.70	24.70
1991	18.3	18.4	18.1	29.50	30.90	24.30
1992	17.7	17.6	18.3	29.20	30.90	23.10
1993	17.4	17.5	17.3	28.70	30.40	23.70
1994	17.4	17.3	18.0	28.70	30.50	23.10
1995	18.0	18.1	17.7	28.30	30.00	22.70
1996	18.0	18.0	17.9	27.50	29.30	21.60
1997	17.9	17.9	17.9	27.20	28.90	21.50
1998	18.3	18.3	18.2	26.50	28.00	21.10
1999	18.0	18.1	17.7	26.00	27.50	20.80
2000	17.9	18.0	17.5	25.80	27.60	20.70
2001	17.3	17.4	16.7	25.40	27.10	20.30
2002	16.9	17.0	16.4	24.99	26.65	19.96
2003	16.7	16.9	16.0	24.80	26.40	19.80
2004	15.2	15.4	14.6	24.10	25.90	19.00
2005	15.0	15.1	14.8	23.80	25.60	19.10
2006	14.9	15.0	14.6	23.50	25.20	18.80
2007	14.7	14.8	14.5	23.10	24.70	18.60
2008	14.6	14.6	14.6	22.81	24.41	18.50
2009	14.7	14.6	14.9	22.55	24.12	18.31
2010	14.8	14.8	14.8	22.15	23.69	17.98
2011	15.2	15.4	14.4	21.79	23.33	17.61
2012	14.9	15.1	14.2	21.59	23.11	17.42
2013	14.7	15.0	14.0	21.40	22.90	17.30
2014	14.8	14.9	14.8	21	22.7	17.4
2015	14.8	14.8	14.8	20.8	22.4	17.3
2016	14.3	14.3	14.4	20.4	22.1	17
2017	14.2	14.1	14.2	20.2	21.8	16.8
2018	13.9	13.8	14.0	20	21.6	16.7

Table 2. 1.1.2 Death Rate(SRS)

Year	KERALA			INDIA		
	Rural+ Urban	Rural	Urban	Rural+ Urban	Rural	Urban
1971	9.0	9.1	8.4	14.90	16.40	9.70
1972	9.2	9.4	7.8	16.90	18.90	10.30
1973	8.5	8.7	7.2	15.50	17.00	9.60
1974	7.8	8.0	7.0	14.50	15.90	9.20
1975	8.4	8.5	7.8	15.90	17.30	10.20
1976	8.1	8.2	7.6	15.00	16.30	9.50
1977	7.3	7.4	6.8	14.70	16.00	9.40
1978	7.0	7.1	6.7	14.20	15.30	9.40
1979	6.9	6.9	6.6	12.80	13.90	8.40
1980	7.0	7.1	6.5	12.40	13.50	8.00
1981	6.6	6.7	5.8	12.50	13.70	7.80
1982	6.6	6.6	6.6	11.90	13.10	7.40
1983	6.7	6.7	6.9	11.90	13.10	7.90
1984	6.4	6.2	7.3	12.60	13.80	8.60
1985	6.5	6.5	6.6	11.80	13.00	7.80
1986	6.1	6.0	6.9	11.10	12.20	7.60
1987	6.1	6.1	6.2	10.90	12.00	7.40
1988	6.4	6.3	6.7	11.00	12.00	7.70
1989	6.1	6.0	6.1	10.30	11.10	7.20
1990	6.0	6.0	6.1	9.70	10.50	6.80
1991	6.0	6.2	5.3	9.80	10.60	7.10
1992	6.3	6.3	6.5	10.10	10.90	7.00
1993	6.0	6.0	5.8	9.30	10.60	5.80
1994	6.1	5.9	6.4	9.30	10.10	6.70
1995	6.0	6.0	6.0	9.00	9.80	6.60
1996	6.2	6.3	6.0	9.00	9.70	6.50
1997	6.2	6.3	6.1	8.90	9.60	6.50
1998	6.4	6.5	6.2	9.00	9.70	6.60
1999	6.4	6.5	6.3	8.60	9.40	6.25
2000	6.4	6.5	6.2	8.50	9.30	6.30
2001	6.6	6.8	6.2	8.40	9.10	6.30
2002	6.4	6.4	6.2	8.10	8.70	6.10
2003	6.3	6.4	6.1	8.00	8.70	6.00
2004	6.1	6.0	6.4	7.50	8.20	5.80
2005	6.4	6.3	6.5	7.60	8.10	6.00
2006	6.7	6.8	6.5	7.50	8.10	6.00
2007	6.8	6.9	6.4	7.40	8.00	6.00
2008	6.6	6.7	6.4	7.40	7.95	5.92
2009	6.8	6.8	6.5	7.30	7.84	5.84
2010	7.0	7.1	6.7	7.21	7.74	5.77
2011	7.0	7.1	6.6	7.10	7.62	5.67
2012	6.9	7.0	6.5	7.04	7.56	5.60
2013	6.9	7.0	6.6	7.00	7.50	5.60
2014	6.6	6.8	6.5	6.7	7.3	5.5
2015	6.6	6.7	6.4	6.5	7.1	5.4
2016	7.6	7.3	7.8	6.4	6.9	5.4
2017	6.8	7.2	6.5	6.3	6.9	5.3
2018	6.9	7.1	6.7	6.2	6.7	5.1

Table 2. 1.1.3 Total Fertility Rate(TFR)						
Year	KERALA			INDIA		
	Rural+ Urban	Rural	Urban	Rural+ Urban	Rural	Urban
1971	4.1	4.2	3.8	5.20	5.40	4.10
1972	4.1	4.2	3.6	5.20	5.40	4.30
1973	3.8	3.9	3.3	4.90	5.20	3.70
1974	3.3	3.3	3.0	4.90	5.20	3.70
1975	3.4	3.4	3.1	4.90	5.20	3.70
1976	3.4	3.5	2.9	4.70	5.00	3.60
1977	3.0	3.1	2.6	4.50	4.80	3.40
1978	2.9	3.0	2.7	4.50	4.80	3.40
1979	3.0	3.1	2.6	4.40	4.70	3.40
1980	3.0	3.1	2.6	4.40	4.70	3.40
1981	2.8	2.9	2.4	4.50	4.80	3.30
1982	2.9	3.0	2.6	4.50	4.90	3.40
1983	2.6	2.8	2.5	4.50	4.90	3.40
1984	2.4	2.4	2.4	4.50	4.80	3.50
1985	2.4	2.4	2.3	4.30	4.60	3.30
1986	2.3	2.3	2.2	4.20	4.50	3.10
1987	2.2	2.2	2.2	4.10	4.40	3.20
1988	2.0	2.0	2.1	4.00	4.30	3.10
1989	2.0	2.1	1.8	3.90	4.20	2.80
1990	1.9	1.9	1.9	3.80	4.10	2.80
1991	1.8	1.8	1.7	3.60	3.90	2.70
1992	1.7	1.7	1.7	3.60	3.90	2.60
1993	1.7	1.7	1.7	3.50	3.80	2.80
1994	1.7	1.7	1.8	3.50	3.80	2.70
1995	1.8	1.9	1.8	3.50	3.90	2.60
1996	1.8	1.8	1.8	3.40	3.70	2.40
1997	1.8	1.8	1.8	3.32	3.64	2.38
1998	1.8	1.8	1.9	3.25	3.52	2.39
1999	1.8	1.8	1.8	3.19	3.50	2.34
2000	1.9	1.9	1.8	3.19	3.51	2.33
2001	1.8	1.8	1.7	3.10	3.40	2.30
2002	1.8	1.8	1.7	3.01	3.31	2.20
2003	1.8	1.8	1.7	2.96	3.24	2.18
2004	1.7	1.8	1.7	2.90	3.30	2.10
2005	1.7	1.7	1.7	2.90	3.20	2.10
2006	1.7	1.7	1.7	2.79	3.09	2.05
2007	1.7	1.7	1.7	2.68	2.97	1.99
2008	1.7	1.7	1.7	2.60	2.90	2.00
2009	1.7	1.7	1.8	2.60	2.90	2.00
2010	1.8	1.8	1.8	2.50	2.80	1.90
2011	1.8	1.9	1.8	2.40	2.70	1.90
2012	1.8	1.9	1.8	2.40	2.60	1.80
2013	1.8	1.9	1.8	2.30	2.50	1.80
2014	1.9	1.9	1.8	2.3	2.5	1.8
2015	1.8	1.8	1.8	2.3	2.5	1.8
2016	1.8	1.8	1.8	2.3	2.5	1.8
2017	1.7	1.7	1.7	2.2	2.4	1.7
2018	1.7	1.7	1.7	2.2	2.4	1.7

Year	KERALA			INDIA		
	Rural+ Urban	Rural	Urban	Rural+ Urban	Rural	Urban
1971	58.0	60.0	48.0	129.00	138.00	82.00
1972	63.0	66.0	43.0	139.00	150.00	85.00
1973	54.0	57.0	47.0	134.00	143.00	89.00
1974	54.0	56.0	44.0	126.00	136.00	74.00
1975	54.0	57.0	36.0	140.00	151.00	84.00
1976	56.0	58.0	47.0	129.00	139.00	80.00
1977	47.0	49.0	37.0	130.00	140.00	81.00
1978	42.0	45.0	29.0	127.00	137.00	74.00
1979	42.7	44.7	30.5	120.00	129.70	72.20
1980	40.2	41.2	34.5	113.90	123.80	65.20
1981	37.0	40.0	24.0	110.00	119.00	62.00
1982	30.0	32.0	24.0	105.00	114.00	65.00
1983	33.0	35.0	26.0	105.00	114.00	66.00
1984	29.0	29.0	27.0	104.00	113.00	66.00
1985	31.0	32.0	30.0	97.00	107.00	59.00
1986	27.0	28.0	20.0	96.00	105.00	62.00
1987	28.0	29.0	25.0	95.00	104.00	61.00
1988	28.0	29.0	22.0	94.00	102.00	62.00
1989	21.0	23.0	15.0	91.00	98.00	58.00
1990	17.0	17.0	15.0	80.00	86.00	50.00
1991	16.0	17.0	16.0	80.00	87.00	53.00
1992	17.0	17.0	13.0	79.00	85.00	53.00
1993	13.0	15.0	8.0	74.00	82.00	45.00
1994	16.0	16.0	14.0	74.00	80.00	52.00
1995	15.0	16.0	13.0	74.00	80.00	48.00
1996	14.0	13.0	16.0	72.00	77.00	46.00
1997	12.2	11.1	15.4	71.00	77.00	45.00
1998	16.0	15.0	17.0	72.00	77.00	45.00
1999	14.5	13.8	16.4	70.00	75.00	44.00
2000	13.9	13.8	14.4	68.00	74.00	44.00
2001	11.3	12.2	8.6	66.00	72.00	42.00
2002	10.0	10.7	7.5	63.00	69.00	40.00
2003	11.0	12.0	10.0	60.00	66.00	38.00
2004	12.0	13.0	9.0	58.00	64.00	40.00
2005	14.0	15.0	12.0	58.00	64.00	40.00
2006	15.0	16.0	12.0	57.00	62.00	39.00
2007	13.0	14.0	10.0	55.00	61.00	37.00
2008	11.5	12.1	9.8	53.47	58.43	35.92
2009	11.6	11.9	10.6	50.35	55.05	33.69
2010	13.3	14.3	10.4	47.06	51.00	31.22
2011	12.1	12.9	9.4	44.24	48.49	28.98
2012	11.8	12.5	9.2	42.27	46.30	27.66
2013	12.0	13.0	9.0	40.00	44.00	27.00
2014	12.00	14.00	10.00	39.00	43.00	26.00
2015	12.00	13.00	10.00	37.00	41.00	25.00
2016	10.00	10.00	10.00	34.00	37.00	23.00
2017	10.00	9.00	10.00	33.00	37.00	23.00
2018	7.00	9.00	5.00	32.00	36.00	23.00

Year	KERALA			INDIA		
	Rural+ Urban	Rural	Urban	Rural+ Urban	Rural	Urban
1971	37.5	39.1	28.0	75.20	80.60	45.40
1972	36.7	38.7	24.1	71.60	76.60	44.90
1973	30.5	31.3	26.0	68.20	72.10	47.50
1974	31.5	32.8	24.6	70.10	75.70	41.00
1975	34.0	36.1	22.1	78.30	84.30	46.20
1976	33.9	36.1	23.9	77.00	83.00	49.00
1977	28.1	31.0	12.0	80.20	88.00	42.00
1978	26.8	28.4	18.2	77.40	85.20	38.00
1979	29.8	31.7	18.1	71.70	77.70	42.40
1980	29.7	31.4	19.5	69.30	75.50	39.10
1981	25.7	27.1	16.8	69.90	75.60	38.50
1982	21.7	23.0	15.3	66.70	72.90	38.80
1983	23.0	24.3	17.4	67.20	73.60	39.30
1984	21.0	21.4	19.4	65.80	72.20	39.70
1985	22.1	22.3	20.9	60.10	66.60	33.30
1986	19.1	21.0	7.8	59.80	65.50	36.20
1987	19.3	20.0	16.1	57.70	63.60	33.30
1988	18.0	18.4	16.7	56.80	62.00	34.60
1989	14.2	15.2	9.7	56.40	62.10	31.40
1990	12.6	12.7	12.0	52.50	57.40	30.90
1991	11.3	11.6	10.3	51.10	55.40	32.20
1992	10.9	11.5	8.1	50.00	53.60	33.00
1993	10.0	10.8	7.4	47.10	52.30	28.40
1994	12.6	13.3	10.4	47.70	52.00	32.60
1995	11.0	11.0	10.0	48.10	52.30	29.20
1996	10.0	10.0	10.0	47.00	50.00	28.00
1997	7.5	7.2	8.4	46.12	50.52	26.16
1998	10.9	10.6	11.7	45.05	49.00	26.96
1999	11.0	10.1	13.8	44.85	49.24	27.65
2000	9.8	10.0	9.0	44.38	48.66	27.49
2001	8.9	9.9	5.6	40.42	44.26	24.93
2002	6.6	7.5	3.7	39.64	43.55	23.77
2003	6.6	6.6	6.7	37.09	40.80	21.88
2004	9.1	9.8	6.9	37.44	41.25	23.59
2005	10.9	11.2	9.9	36.74	40.53	23.19
2006	10.0	12.0	7.0	37.01	40.92	22.94
2007	7.5	9.1	2.2	36.35	40.41	21.80
2008	7.4	8.8	3.2	35.11	39.17	20.73
2009	7.2	7.5	6.4	34.18	38.02	20.55
2010	7.1	7.7	5.2	32.62	36.36	19.32
2011	6.7	7.7	3.2	30.56	34.37	16.86
2012	6.9	8.0	3.2	28.93	32.58	15.71
2013	6.4	7.5	2.8	28.00	31.00	15.00
2014	6.00	8.00	4.00	26.00	30.00	15.00
2015	6.00	8.00	4.00	25.00	29.00	15.00
2016	6.00	7.00	4.00	24.00	27.00	14.00
2017	5.00	7.00	4.00	23.00	27.00	14.00
2018	5.00	6.00	4.00	23.00	27.00	14.00

Table 2.1.1.6 UNDER 5 MORTALITY RATE (U5MR)						
Year	KERALA			INDIA		
	Rural+ Urban	Rural	Urban	Rural+ Urban	Rural	Urban
2011	13	14	10	55	61	35
2012	13	13	10	52	58	32
2013	12	13	9	49	55	29
2014	13	14	12	45	51	28
2015	13	14	11	43	45	28
2016	11	12	10	39	43	25
2017	12	12	12	37	42	25
2018	10	11	9	36	40	26

Table2. 1.1.7 Maternal Mortality Ratio (MMR)		
YEAR	KERALA	INDIA
2004-06	95	254
2007-09	81	212
2010-12	66	178
2011-13	61	167
2014-16	46	130
2015-17	42	122
2016-18	43	113

Table 2.1.1.8 Life Expectancy at Birth by sector

Year	KERALA			INDIA		
	Rural+ Urban	Rural	Urban	Rural+ Urban	Rural	Urban
1976-80	65.5	65.5	65.7	52.3	50.6	60.1
1981-85	68.4	68.5	67.6	55.4	53.7	62.8
1986-90	69.5	69.6	68.6	57.7	56.1	63.4
1987-91	70.4	70.4	71.7	58.3	56.8	63.8
1988-92	70.9	70.9	72.3	58.7	57.4	64.1
1989-93	72	71.8	72.8	59.4	58	64.9
1990-94	72.7	72	73	60	58.6	65.4
1991-95	72.9	72.5	73.3	60.3	58.9	65.9
1992-96	73.1	72.8	73.6	60.7	59.4	66.3
1993-97	73.3	73.2	73.8	61.1	59.9	66.6
1994-98	73.4	73.3	73.8	61.4	60.1	66.8
1995-99	71.7	71.9	71.3	61.5	60.3	66.4
1996-00	71.6	71.7	71.4	61.9	60.7	66.7
1997-01	71.7	71.8	71.6	62.3	61.1	67.1
1998-02	71.9	71.9	71.7	62.9	61.6	67.6
1999-03	72.5	72.3	73.1	63.4	62.2	68
2000-04	73.2	73.1	73.4	63.9	62.7	68.4
2001-05	73.6	73.6	73.6	64.3	63	68.6
2002-06	73.9	74	73.8	64.7	63.5	68.9
2003-07	74.1	74.1	74.1	65	63.8	69
2004-08	74.3	74.4	74.1	65.4	64.2	69
2005-09	74.3	74.3	74.2	65.7	64.5	69.2
2006-10	74.2	74.2	74.3	66.1	64.9	69.6
2007-11	74.4	74.4	74.5	66.5	65.3	70.1
2008-12	74.7	74.6	74.8	67	65.8	70.6
2009-13	74.8	74.8	75.1	67.5	66.3	71.2
2010-14	74.9	74.9	75	67.9	66.7	71.5
2011-15	75.2	75.1	75.4	68.3	67.1	71.9
2012-16	75.1	75.2	74.9	68.7	67.4	72.2
2013-17	75.2	75.3	75.1	69	67.7	72.4
2014-18	75.3	75.4	75.1	69.4	68	72.6

Table 2.1.1.8 Life Expectancy at Birth by Sex

Year	KERALA			INDIA		
	Male+ Female	male	Female	Male+ Female	male	Female
1976-80	65.5	63.5	67.6	52.3	52.5	52.1
1981-85	68.4	65.4	71.5	55.4	55.4	55.7
1986-90	69.5	66.8	72.3	57.7	57.7	58.1
1987-91	70.4	67.7	72.9	58.3	58.1	58.6
1988-92	70.9	68.1	73.4	58.7	58.6	59.0
1989-93	72	68.8	74.7	59.4	59.0	59.7
1990-94	72.7	69.5	75.3	60.0	59.4	60.4
1991-95	72.9	69.9	75.6	60.3	59.7	60.9
1992-96	73.1	70.2	75.8	60.7	60.1	61.4
1993-97	73.3	70.4	75.9	61.1	60.4	61.4
1994-98	73.4	70.5	76	61.4	60.6	62.2
1995-99	71.7	68.8	74.9	61.5	60.8	62.3
1996-00	71.6	68.7	74.7	61.9	61.2	62.7
1997-01	71.7	68.8	74.8	62.3	61.4	63.3
1998-02	71.9	69	74.9	62.9	61.9	64.0
1999-03	72.5	69.7	75.3	63.4	62.3	64.6
2000-04	73.2	70.3	76.1	63.9	62.8	65.2
2001-05	73.6	70.5	76.7	64.3	63.1	65.6
2002-06	73.9	70.9	76.9	64.7	63.5	66.1
2003-07	74.1	71.1	77	65.0	63.7	66.5
2004-08	74.3	71.2	77.4	65.4	64.0	66.9
2005-09	74.3	71.3	77.2	65.7	64.3	67.2
2006-10	74.2	71.5	76.9	66.1	64.6	67.7
2007-11	74.4	71.5	77.3	66.5	64.9	68.2
2008-12	74.7	71.6	77.7	67.0	65.4	68.8
2009-13	74.8	71.8	77.8	67.5	65.8	69.3
2010-14	74.9	72	77.8	67.9	66.4	69.6
2011-15	75.2	72.2	78.2	68.3	66.9	70.0
2012-16	75.1	72.2	77.9	68.7	67.4	70.2
2013-17	75.2	72.5	77.8	69.0	67.8	70.4
2014-18	75.3	72.5	77.9	69.4	68.2	70.7

2.1.2 MAJOR HEALTH INDICATORS (SRS 2018)

Health Indicators					
Sl.No.	Indicators		Kerala	India	
1	Birth Rate Rate 2018*	Rural	13.8	21.6	
		Urban	14	16.7	
		Total	13.9	20	
2	Death Rate Rate 2018*	Rural	7.1	6.7	
		Urban	6.7	5.1	
		Total	6.9	6.2	
		Rural	Male	8	7.2
			Female	6.1	6.2
		Urban	Male	7.8	5.5
			Female	5.7	4.7
		Total	Male	7.9	6.6
			Female	5.9	5.7
3	Natural Growth Rate#	Rural	7.1	14.9	
		Urban	6.8	11.6	
		Total	7.4	13.8	
4	Infant Mortality Rate Rate 2018*	Rural	9	36	
		Urban	5	23	
		Total	7	32	
		Rural	Male	8	36
			Female	10	36
		Urban	Male	11	22
			Female	0	23
		Total	Male	9	32
			Female	5	33
5	Neo Natal Mortality Rate 2018 *	Rural	6	27	
		Urban	4	14	
		Total	5	23	
6	Perinatal Mortality Rate 2018 *	Rural	9	25	
		Urban	11	14	
		Total	10	22	
7	Child Mortality Rate 2018 *	Rural	2	10	
		Urban	2	6	

		Total	2	9
8	Under 5 mortality Rate 2018 *	Rural	11	40
		Urban	9	26
		Total	10	36
9	Early Neo-natal Mortality Rate 2018 *	Rural	5	20
		Urban	4	10
		Total	5	18
10	Late Neo-natal Mortality Rate 2018 *	Rural	1	6
		Urban	0	3
		Total	1	6
11	Post Neo-natal Mortality Rate 2018 *	Rural	3	9
		Urban	1	9
		Total	2	9
12	Death Rate 2018*			
	(a) Children (0-4)	Rural	2.1	9.9
		Urban	2	6.1
		Total	2.1	8.9
	(b) Children (5-14)	Rural	0.2	0.6
		Urban	0.3	0.4
		Total	0.2	0.5
	(c) Children (15-49)	Rural	1.9	3.2
		Urban	2.2	2.3
		Total	2.1	2.9
	(d) persons (60 and above)	Rural	42.3	45.9
		Urban	40	36.1
		Total	41.2	42.6
	(e)Percentage of death receiving medical attention*			
		Government	42.8	29.4
		Private	36.8	18.5
		Qualified untrained/ others	15.4	33
			5	19.2
13	Still Birth Rate 2018 *	Rural	4	4
		Urban	7	4
		Total	5	4
14	Total Fertility Rate 2018*	Rural	1.7	2.4
		Urban	1.7	1.7
		Total	1.7	2.2

15	General Fertility Rate 2018 *	Rural	48.7	77.4
		Urban	48.4	56.7
		Total	48.6	70.4
16	Total Marital Fertility Rate 2018 *	Rural	4.5	5.1
		Urban	5.9	4.4
		Total	5.1	4.9
17	Gross Reproduction Rate 2018#	Rural	0.8	1.1
		Urban	0.9	0.8
		Total	0.9	1.0
18	Female age at effective marriage Rate 2018#			0
	Below 18	Rural	17	16.8
		Urban	17	16.9
		Total	17	16.8
	18-20	Rural	19	19.2
		Urban	19.2	19.2
		Total	19.1	19.3
	21+	Rural	24.6	23.6
		Urban	24.7	24.8
		Total	24.6	24
	All	Rural	23	21.8
		Urban	23.4	23.4
		Total	23.2	22.3
19	Maternal Mortality Ratio 2016-18 \$		43	113
20	Expectancy of Life at Birth 2014-18**	Male	72.5	68.2
		Female	77.9	70.7
		Total	75.3	69.4
	#SRS Bulletin 2018			
	*SRS Report 2018			
	**Life Table SRS 2014-18			
	\$MMR Bulletin 2016-18			



सत्यमेव जयते
Government of India

Ministry of Health and Family Welfare

NATIONAL FAMILY HEALTH SURVEY - 5

2019-20

STATE FACT SHEET

KERALA



(स्थापना / Established in 1956)

बेहतर भविष्य के लिए क्षमता निर्माण
Capacity Building for a Better Future

International Institute for Population Sciences
(Deemed University)

Kerala - Key Indicators

Indicators	NFHS-5 (2019-20)			NFHS-4 (2015-16)
	Urban	Rural	Total	Total
Population and Household Profile				
1. Female population age 6 years and above who ever attended school (%)	97.0	94.1	95.5	95.4
2. Population below age 15 years (%)	20.7	20.5	20.6	20.2
3. Sex ratio of the total population (females per 1,000 males)	1,138	1,105	1,121	1,049
4. Sex ratio at birth for children born in the last five years (females per 1,000 males)	983	922	951	1,047
5. Children under age 5 years whose birth was registered with the civil authority (%)	99.5	98.5	99.0	97.7
6. Deaths in the last 3 years registered with the civil authority (%)	98.0	96.9	97.4	na
7. Population living in households with electricity (%)	99.9	99.3	99.6	99.2
8. Population living in households with an improved drinking-water source ¹ (%)	96.4	93.6	94.9	94.8
9. Population living in households that use an improved sanitation facility ² (%)	99.0	98.5	98.7	98.2
10. Households using clean fuel for cooking ³ (%)	78.5	66.3	72.1	57.4
11. Households using iodized salt (%)	99.6	99.2	99.3	98.4
12. Households with any usual member covered under a health insurance/financing scheme (%)	47.2	55.4	51.5	47.7
13. Children age 5 years who attended pre-primary school during the school year 2019-20 (%)	33.1	25.6	29.0	na
Characteristics of Adults (age 15-49 years)				
14. Women who are literate ⁴ (%)	99.1	97.5	98.3	na
15. Men who are literate ⁴ (%)	99.2	97.4	98.2	na
16. Women with 10 or more years of schooling (%)	78.8	75.3	77.0	72.2
17. Men with 10 or more years of schooling (%)	76.8	70.2	73.3	70.5
18. Women who have ever used the internet (%)	64.9	57.5	61.1	na
19. Men who have ever used the internet (%)	78.3	74.2	76.1	na
Marriage and Fertility				
20. Women age 20-24 years married before age 18 years (%)	4.1	8.2	6.3	7.6
21. Men age 25-29 years married before age 21 years (%)	0.0	2.5	1.4	2.8
22. Total fertility rate (children per woman)	1.8	1.8	1.8	1.6
23. Women age 15-19 years who were already mothers or pregnant at the time of the survey (%)	1.8	3.0	2.4	3.0
24. Adolescent fertility rate for women age 15-19 years ⁵	15	21	18	21
Infant and Child Mortality Rates (per 1,000 live births)				
25. Neonatal mortality rate (NNMR)	2.6	4.2	3.4	4.4
26. Infant mortality rate (IMR)	3.5	5.2	4.4	5.6
27. Under-five mortality rate (U5MR)	3.9	6.4	5.2	7.1
Current Use of Family Planning Methods (currently married women age 15-49 years)				
28. Any method ⁶ (%)	61.4	60.1	60.7	53.1
29. Any modern method ⁶ (%)	50.6	54.8	52.8	50.3
30. Female sterilization (%)	43.6	49.4	46.6	45.8
31. Male sterilization (%)	0.0	0.1	0.1	0.1
32. IUD/PPIUD (%)	1.6	1.5	1.5	1.6
33. Pill (%)	0.5	0.3	0.4	0.2
34. Condom (%)	4.0	2.9	3.4	2.6
35. Injectables (%)	0.0	0.0	0.0	0.0
Unmet Need for Family Planning (currently married women age 15-49 years)				
36. Total unmet need ⁷ (%)	13.0	12.0	12.5	13.7
37. Unmet need for spacing ⁷ (%)	7.2	6.8	7.0	8.3
Quality of Family Planning Services				
38. Health worker ever talked to female non-users about family planning (%)	13.7	16.1	15.0	17.0
39. Current users ever told about side effects of current method ⁸ (%)	62.2	62.1	62.2	55.6

Note: Major indicators are highlighted in grey. The decrease in 4 or more antenatal care visits (Indicator 41) in some districts in Kerala should be interpreted with caution. The decline may be due to flooding, in-migration, or other reasons in recent years.

LHV = Lady health visitor; ANM = Auxiliary nurse midwife; na = Not available

() Based on 25-49 unweighted cases

* Percentage not shown; based on fewer than 25 unweighted cases

¹Piped water into dwelling/yard/plot, piped to neighbour, public tap/standpipe, tube well or borehole, protected dug well, protected spring, rainwater, tanker truck, cart with small tank, bottled water, community RO plant.

²Flush to piped sewer system, flush to septic tank, flush to pit latrine, flush to don't know where, ventilated improved pit (VIP)/biogas latrine, pit latrine with slab, twin pit/composting toilet, which is not shared with any other household. This indicator does not denote access to toilet facility.

³Electricity, LPG/natural gas, biogas.

⁴Refers to women/men who completed standard 9 or higher and women/men who can read a whole sentence or part of a sentence.

⁵Equivalent to the age-specific fertility rate for the 3-year period preceding the survey, expressed in terms of births per 1,000 women age 15-19.

⁶Any method includes other methods that are not shown separately; Any modern method includes other modern methods that are not shown separately.

⁷Unmet need for family planning refers to fecund women who are not using contraception but who wish to postpone the next birth (spacing) or stop childbearing altogether (limiting). Specifically, women are considered to have unmet need for spacing if they are:

- At risk of becoming pregnant, not using contraception, and either do not want to become pregnant within the next two years, or are unsure if or when they want to become pregnant.
- Pregnant with a mistimed pregnancy.
- Postpartum amenorrhoeic for up to two years following a mistimed birth and not using contraception.

Women are considered to have unmet need for limiting if they are:

- At risk of becoming pregnant, not using contraception, and want no (more) children.
- Pregnant with an unwanted pregnancy.

· Postpartum amenorrhoeic for up to two years following an unwanted birth and not using contraception.

Women who are classified as infecund have no unmet need because they are not at risk of becoming pregnant. Unmet need for family planning is the sum of unmet need for spacing plus unmet need for limiting.

⁸Based on current users of female sterilization, IUD/PPIUD, injectables, and pills who started using that method in the past 5 years.

Kerala - Key Indicators

Indicators	NFHS-5 (2019-20)			NFHS-4 (2015-16)
	Urban	Rural	Total	Total
Maternal and Child Health				
Maternity Care (for last birth in the 5 years before the survey)				
40. Mothers who had an antenatal check-up in the first trimester (%)	93.9	93.3	93.6	95.1
41. Mothers who had at least 4 antenatal care visits (%)	79.3	78.0	78.6	90.1
42. Mothers whose last birth was protected against neonatal tetanus ⁹ (%)	94.7	95.7	95.2	96.4
43. Mothers who consumed iron folic acid for 100 days or more when they were pregnant (%)	80.5	79.5	80.0	67.1
44. Mothers who consumed iron folic acid for 180 days or more when they were pregnant (%)	66.2	67.7	67.0	47.4
45. Registered pregnancies for which the mother received a Mother and Child Protection (MCP) card (%)	89.9	92.5	91.3	84.2
46. Mothers who received postnatal care from a doctor/nurse/LHV/ANM/midwife/other health personnel within 2 days of delivery (%)	93.1	93.4	93.3	88.7
47. Average out-of-pocket expenditure per delivery in a public health facility (Rs.)	6,602	6,789	6,710	6,901
48. Children born at home who were taken to a health facility for a check-up within 24 hours of birth (%)	*	*	*	*
49. Children who received postnatal care from a doctor/nurse/LHV/ANM/midwife/other health personnel within 2 days of delivery (%)	90.4	92.0	91.2	na
Delivery Care (for births in the 5 years before the survey)				
50. Institutional births (%)	99.7	99.8	99.8	99.8
51. Institutional births in public facility (%)	30.2	37.7	34.1	38.3
52. Home births that were conducted by skilled health personnel ¹⁰ (%)	0.1	0.2	0.2	0.1
53. Births attended by skilled health personnel ¹⁰ (%)	99.9	100.0	100.0	99.9
54. Births delivered by caesarean section (%)	39.1	38.7	38.9	35.8
55. Births in a private health facility that were delivered by caesarean section (%)	39.4	40.4	39.9	38.6
56. Births in a public health facility that were delivered by caesarean section (%)	38.8	36.1	37.2	31.4
Child Vaccinations and Vitamin A Supplementation				
57. Children age 12-23 months fully vaccinated based on information from either vaccination card or mother's recall ¹¹ (%)	77.6	78.0	77.8	82.1
58. Children age 12-23 months fully vaccinated based on information from vaccination card only ¹² (%)	83.3	87.1	85.2	88.3
59. Children age 12-23 months who have received BCG (%)	98.2	97.0	97.6	98.1
60. Children age 12-23 months who have received 3 doses of polio vaccine ¹³ (%)	85.8	82.5	84.1	88.5
61. Children age 12-23 months who have received 3 doses of penta or DPT vaccine (%)	86.1	84.3	85.2	90.4
62. Children age 12-23 months who have received the first dose of measles-containing vaccine (MCV) (%)	86.4	90.1	88.3	89.4
63. Children age 24-35 months who have received a second dose of measles-containing vaccine (MCV) (%)	16.9	14.2	15.5	na
64. Children age 12-23 months who have received 3 doses of rotavirus vaccine ¹⁴ (%)	10.0	9.1	9.5	na
65. Children age 12-23 months who have received 3 doses of penta or hepatitis B vaccine (%)	85.3	80.9	83.0	82.4
66. Children age 9-59 months who received a vitamin A dose in the last 6 months (%)	84.9	83.0	83.9	74.4
67. Children age 12-23 months who received most of their vaccinations in a public health facility (%)	83.9	90.4	87.3	77.6
68. Children age 12-23 months who received most of their vaccinations in a private health facility (%)	16.1	8.7	12.3	22.4
Treatment of Childhood Diseases (children under age 5 years)				
69. Prevalence of diarrhoea in the 2 weeks preceding the survey (%)	4.2	4.3	4.3	3.4
70. Children with diarrhoea in the 2 weeks preceding the survey who received oral rehydration salts (ORS) (%)	(65.9)	56.8	61.1	49.4
71. Children with diarrhoea in the 2 weeks preceding the survey who received zinc (%)	(35.4)	10.6	22.4	14.1
72. Children with diarrhoea in the 2 weeks preceding the survey taken to a health facility or health provider (%)	(90.0)	84.1	86.9	76.3
73. Prevalence of symptoms of acute respiratory infection (ARI) in the 2 weeks preceding the survey (%)	1.9	2.8	2.4	0.8
74. Children with fever or symptoms of ARI in the 2 weeks preceding the survey taken to a health facility or health provider (%)	85.7	86.7	86.2	90.1

⁹Includes mothers with two injections during the pregnancy for their last birth, or two or more injections (the last within 3 years of the last live birth), or three or more injections (the last within 5 years of the last birth), or four or more injections (the last within 10 years of the last live birth), or five or more injections at any time prior to the last birth.

¹⁰Doctor/nurse/LHV/ANM/midwife/other health personnel.

¹¹Vaccinated with BCG, measles-containing vaccine (MCV)/MR/MMR/Measles, and 3 doses each of polio (excluding polio vaccine given at birth) and DPT or penta vaccine.

¹²Among children whose vaccination card was shown to the interviewer, percentage vaccinated with BCG, measles-containing vaccine (MCV)/MR/MMR/Measles, and 3 doses each of polio (excluding polio vaccine given at birth) and DPT or penta vaccine.

¹³Not including polio vaccination given at birth.

¹⁴Since rotavirus is not being provided across all states and districts, the levels should not be compared.

Kerala - Key Indicators

Indicators	NFHS-5 (2019-20)			NFHS-4 (2015-16)
	Urban	Rural	Total	Total
Child Feeding Practices and Nutritional Status of Children				
75. Children under age 3 years breastfed within one hour of birth ¹⁵ (%)	66.8	66.6	66.7	64.3
76. Children under age 6 months exclusively breastfed ¹⁶ (%)	50.3	59.5	55.5	53.3
77. Children age 6-8 months receiving solid or semi-solid food and breastmilk ¹⁶ (%)	73.1	69.5	71.3	63.1
78. Breastfeeding children age 6-23 months receiving an adequate diet ^{16, 17} (%)	22.2	25.0	23.6	21.3
79. Non-breastfeeding children age 6-23 months receiving an adequate diet ^{16, 17} (%)	(14.3)	(30.0)	22.2	22.3
80. Total children age 6-23 months receiving an adequate diet ^{16, 17} (%)	21.5	25.4	23.5	21.4
81. Children under 5 years who are stunted (height-for-age) ¹⁸ (%)	20.1	26.4	23.4	19.7
82. Children under 5 years who are wasted (weight-for-height) ¹⁸ (%)	16.0	15.5	15.8	15.7
83. Children under 5 years who are severely wasted (weight-for-height) ¹⁹ (%)	7.0	4.6	5.8	6.5
84. Children under 5 years who are underweight (weight-for-age) ¹⁸ (%)	19.4	19.9	19.7	16.1
85. Children under 5 years who are overweight (weight-for-height) ²⁰ (%)	3.8	4.2	4.0	3.4
Nutritional Status of Adults (age 15-49 years)				
86. Women whose Body Mass Index (BMI) is below normal (BMI <18.5 kg/m ²) ²¹ (%)	9.7	10.4	10.1	9.7
87. Men whose Body Mass Index (BMI) is below normal (BMI <18.5 kg/m ²) (%)	6.9	12.7	10.0	8.5
88. Women who are overweight or obese (BMI ≥25.0 kg/m ²) ²¹ (%)	40.4	36.0	38.1	32.4
89. Men who are overweight or obese (BMI ≥25.0 kg/m ²) (%)	40.1	33.2	36.4	28.5
90. Women who have high risk waist-to-hip ratio (≥0.85) (%)	71.1	70.2	70.7	na
91. Men who have high risk waist-to-hip ratio (≥0.90) (%)	57.2	56.5	56.8	na
Anaemia among Children and Adults				
92. Children age 6-59 months who are anaemic (<11.0 g/dl) ²² (%)	38.9	39.8	39.4	35.7
93. Non-pregnant women age 15-49 years who are anaemic (<12.0 g/dl) ²² (%)	37.0	36.1	36.5	34.7
94. Pregnant women age 15-49 years who are anaemic (<11.0 g/dl) ²² (%)	35.4	27.1	31.4	22.6
95. All women age 15-49 years who are anaemic ²² (%)	37.0	35.8	36.3	34.3
96. All women age 15-19 years who are anaemic ²² (%)	33.6	31.6	32.5	37.8
97. Men age 15-49 years who are anaemic (<13.0 g/dl) ²² (%)	19.5	16.4	17.8	11.8
98. Men age 15-19 years who are anaemic (<13.0 g/dl) ²² (%)	24.0	30.7	27.4	14.3
Blood Sugar Level among Adults (age 15 years and above)				
Women				
99. Blood sugar level - high (141-160 mg/dl) ²³ (%)	8.2	8.4	8.3	na
100. Blood sugar level - very high (>160 mg/dl) ²³ (%)	13.0	13.1	13.1	na
101. Blood sugar level - high or very high (>140 mg/dl) or taking medicine to control blood sugar level ²³ (%)	24.8	24.8	24.8	na
Men				
102. Blood sugar level - high (141-160 mg/dl) ²³ (%)	10.1	9.6	9.8	na
103. Blood sugar level - very high (>160 mg/dl) ²³ (%)	14.1	13.6	13.8	na
104. Blood sugar level - high or very high (>140 mg/dl) or taking medicine to control blood sugar level ²³ (%)	27.4	26.7	27.0	na
Hypertension among Adults (age 15 years and above)				
Women				
105. Mildly elevated blood pressure (Systolic 140-159 mm of Hg and/or Diastolic 90-99 mm of Hg) (%)	15.4	15.5	15.5	na
106. Moderately or severely elevated blood pressure (Systolic ≥160 mm of Hg and/or Diastolic ≥100 mm of Hg) (%)	6.2	7.0	6.6	na
107. Elevated blood pressure (Systolic ≥140 mm of Hg and/or Diastolic ≥90 mm of Hg) or taking medicine to control blood pressure (%)	30.7	31.0	30.9	na
Men				
108. Mildly elevated blood pressure (Systolic 140-159 mm of Hg and/or Diastolic 90-99 mm of Hg) (%)	19.1	19.3	19.2	na
109. Moderately or severely elevated blood pressure (Systolic ≥160 mm of Hg and/or Diastolic ≥100 mm of Hg) (%)	6.0	7.3	6.7	na
110. Elevated blood pressure (Systolic ≥140 mm of Hg and/or Diastolic ≥90 mm of Hg) or taking medicine to control blood pressure (%)	32.6	32.9	32.8	na

¹⁵Based on the last child born in the 3 years before the survey.

¹⁶Based on the youngest child living with the mother.

¹⁷Breastfed children receiving 4 or more food groups and a minimum meal frequency, non-breastfed children fed with a minimum of 3 Infant and Young Child Feeding Practices (fed with other milk or milk products at least twice a day, a minimum meal frequency that is, receiving solid or semi-solid food at least twice a day for breastfed infants 6-8 months and at least three times a day for breastfed children 9-23 months, and solid or semi-solid foods from at least four food groups not including the milk or milk products food group).

¹⁸Below -2 standard deviations, based on the WHO standard.

¹⁹Below -3 standard deviations, based on the WHO standard.

²⁰Above +2 standard deviations, based on the WHO standard.

²¹Excludes pregnant women and women with a birth in the preceding 2 months.

²²Haemoglobin in grams per decilitre (g/dl). Among children, prevalence is adjusted for altitude. Among adults, prevalence is adjusted for altitude and for smoking status, if known. As NFHS uses the capillary blood for estimation of anaemia, the results of NFHS-5 need not be compared with other surveys using venous blood.

²³Random blood sugar measurement.

Kerala - Key Indicators

Indicators	NFHS-5 (2019-20)			NFHS-4 (2015-16)
	Urban	Rural	Total	Total
Screening for Cancer among Adults (age 30-49 years)				
Women				
111. Ever undergone a screening test for cervical cancer (%)	3.8	3.2	3.5	na
112. Ever undergone a breast examination for breast cancer (%)	2.8	2.0	2.4	na
113. Ever undergone an oral cavity examination for oral cancer (%)	0.8	0.6	0.7	na
Men				
114. Ever undergone an oral cavity examination for oral cancer (%)	0.0	0.9	0.5	na
Knowledge of HIV/AIDS among Adults (age 15-49 years)				
115. Women who have comprehensive knowledge ²⁴ of HIV/AIDS (%)	35.5	34.2	34.8	43.1
116. Men who have comprehensive knowledge ²⁴ of HIV/AIDS (%)	44.2	46.4	45.4	50.8
117. Women who know that consistent condom use can reduce the chance of getting HIV/AIDS (%)	73.5	74.7	74.1	74.2
118. Men who know that consistent condom use can reduce the chance of getting HIV/AIDS (%)	82.2	86.5	84.5	84.8
Women's Empowerment (women age 15-49 years)				
119. Currently married women who usually participate in three household decisions ²⁵ (%)	93.6	94.6	94.1	92.1
120. Women who worked in the last 12 months and were paid in cash (%)	25.8	25.8	25.8	20.4
121. Women owning a house and/or land (alone or jointly with others) (%)	25.3	29.2	27.3	34.9
122. Women having a bank or savings account that they themselves use (%)	78.9	78.2	78.5	70.6
123. Women having a mobile phone that they themselves use (%)	86.2	86.9	86.6	81.2
124. Women age 15-24 years who use hygienic methods of protection during their menstrual period ²⁶ (%)	94.9	91.4	93.0	90.0
Gender Based Violence (age 18-49 years)				
125. Ever-married women age 18-49 years who have ever experienced spousal violence ²⁷ (%)	9.9	9.9	9.9	14.3
126. Ever-married women age 18-49 years who have experienced physical violence during any pregnancy (%)	0.5	0.5	0.5	1.2
127. Young women age 18-29 years who experienced sexual violence by age 18 (%)	1.8	1.3	1.6	5.0
Tobacco Use and Alcohol Consumption among Adults (age 15 years and above)				
128. Women age 15 years and above who use any kind of tobacco (%)	1.3	3.0	2.2	na
129. Men age 15 years and above who use any kind of tobacco (%)	14.0	19.6	16.9	na
130. Women age 15 years and above who consume alcohol (%)	0.2	0.3	0.2	na
131. Men age 15 years and above who consume alcohol (%)	18.7	21.0	19.9	na

²⁴Comprehensive knowledge means knowing that consistent use of condoms every time they have sex and having just one uninfected faithful sex partner can reduce the chance of getting HIV/AIDS, knowing that a healthy-looking person can have HIV/AIDS, and rejecting two common misconceptions about transmission or prevention of HIV/AIDS.

²⁵Decisions about health care for herself, making major household purchases, and visits to her family or relatives.

²⁶Locally prepared napkins, sanitary napkins, tampons, and menstrual cups are considered to be hygienic methods of protection.

²⁷Spousal violence is defined as physical and/or sexual violence.

2.4. 75TH ROUND NATIONAL SAMPLE SURVEY (JULY 2017-JUNE 2018)

2.4.1. KEY INDICATORS OF SOCIAL CONSUMPTION IN INDIA : HEALTH

sl no	Indicator	75th round NSS- July 2017-June 2018								
		India								
		Rural			Urban			Rural + Urban		
		M	F	T	M	F	T	M	F	T
1	Percentage of Persons that Responded as Ailing (PPRA) during a 15 day period	6.1	7.6	6.8	8.2	10	9.1	6.7	8.3	7.5
2	Number per 1000 of persons treated as in patient during last 365 days	26	27	26	34	35	34	28	29	29
3	Percentage of Govt hospitalisation (excluding childbirth) cases			45.7			35.3			42
4	percentage of ailments treated by govt hospitals in OP			32.5			26.2			30.1
5	Average medical expenditure per hospitalization in govt hospitals (excliding child birth)			4290			4837			4452
6	Average medical expenditure per hospitalization in private hospitals (excliding child birth)			27347			38822			31845
7	Average medical expenditure per hospitalization in hospitals (excliding child birth)			16676			26475			20135
8	Average medical expenditure per spell of ailment in op clinic	621	567	592	711	710	710	655	621	636

2.4.2.KEY INDICATORS OF SOCIAL CONSUMPTION IN KERALA : HEALTH

sl no	Indicator	75th round NSS- July 2017-june 2018								
		KERALA								
		Rural			Urban			Rural + Urban		
		M	F	T	M	F	T	M	F	T
1	Percentage of Persons that Responded as Ailing (PPRA) during a 15 day period	24.1	26.7	25.4	20.7	25.7	23.4	22.6	26.3	24.5
2	Number per 1000 of persons treated as in patient during last 365 days	114	113	114	106	85	95	110	100	105
3	Percentage of Govt hospitalisation (excluding childbirth) cases			40			35.8			38.3
4	percentage of ailments treated by govt hospitals in OP			51.8			41.7			47.5
5	Average medical expenditure per hospitalization in govt hospitals (excliding child birth)			4395			4589			4469
6	Average medical expenditure per hospitalization in private hospitals (excliding child birth)			25949			32746			28775
7	Average medical expenditure per hospitalization in hospitals (excliding child birth)			17054			22123			19109
8	Average medical expenditure per spell of ailment in op clinic	467	402	432	664	466	545	545	431	480



3

HEALTH INDICATORS BASED ON REPORTS OF HEALTH INFORMATION CELL IN DHS

3.1 INFRASTRUCTURE

3.1.1 Number of modern Medicine institutions under DHS

Modern Medicine institutions under DHS	Number
GH	18
DH	18
THQH	48
TH	39
CHC	184
CHC'S SELECTED OR CONVERTED AS FHC	39
24 X 7 PHC	19
FHC	91
PHC	199
PHC'S SELECTED OR CONVERTED AS FHC	543
DTBC	14
Others	48
W&CH	8
MHC	3
TB	4
LEP	3
SPECIALITY (OTHERS)	6
SUB CENTRES	5410
Total	6694

Table 3.1.1 Number of Modern medicine institutions under DHS 2019-20

SL NO	DISTRICT	GH	DH	THQH	TH	CHC	CHC'S SELECTED OR CONVERTED AS FHC	24 X 7 PHC	24X7 PHC'S SELECTED OR CONVERTED AS FHC	PHC	PHC'S SELECTED OR CONVERTED AS FHC	DTBC	Others	SPECIALITY					TOTAL	SUB CENTRES	GRAND TOTAL
														W&CH	MHC	TB	LEP	SPECIALITY (OTHERS)			
1	TVM	2	2	3	5	20	2	0	4	14	52	1	8	1	1	1	0	2	118	485	603
2	KLM	0	1	5	4	11	5	1	3	12	42	1	1	1	0	1	0	0	88	421	509
3	PTA	2	1	4	0	7	5	1	1	13	28	1	1	0	0	0	0	0	64	261	325
4	ALP	1	2	4	2	15	1	0	10	8	43	1	0	1	0	1	1	0	90	366	456
5	KTM	4	0	3	0	13	7	1	7	16	31	1	0	0	0	0	0	1	84	333	417
6	IDK	0	2	4	0	8	4	3	6	8	23	1	2	0	0	0	0	0	61	309	370
7	EKM	2	1	5	6	21	2	3	21	20	31	1	1	1	0	0	0	0	115	410	525
8	TSR	2	1	3	3	22	2	2	8	13	56	1	3	0	1	0	1	0	118	471	589
9	PKD	0	1	5	1	16	3	0	7	18	51	1	9	1	0	0	0	1	114	503	617
10	MLP	1	3	4	3	16	4	4	6	26	49	1	6	1	0	1	0	0	125	589	714
11	KKD	1	1	1	6	15	1	0	2	15	47	1	0	1	1	0	1	0	93	401	494
12	WND	1	1	2	0	7	2	1	4	5	13	1	8	0	0	0	0	0	45	200	245
13	KNR	1	1	1	8	7	1	2	6	21	54	1	6	1	0	0	0	2	112	414	526
14	KSD	1	1	4	1	6	0	1	6	10	23	1	3	0	0	0	0	0	57	247	304
15	Total	18	18	48	39	184	39	19	91	199	543	14	48	8	3	4	3	6	1284	5410	6694

Table 3.1.2 Number of Institutions selected or converted as Family Health Centers 2019-20

SL NO	DISTRICT	CHC'S SELECTED OR CONVERTED AS FHC	24X7 PHC'S SELECTED OR CONVERTED AS FHC	PHC'S SELECTED OR CONVERTED AS FHC	TOTAL
1	TVM	2	4	52	58
2	KLM	5	3	42	50
3	PTA	5	1	28	34
4	ALP	1	10	43	54
5	KTM	7	7	31	45
6	IDK	4	6	23	33
7	EKM	2	21	31	54
8	TSR	2	8	56	66
9	PKD	3	7	51	61
10	MLP	4	6	49	59
11	KKD	1	2	47	50
12	WND	2	4	13	19
13	KNR	1	6	54	61
14	KSD	0	6	23	29
15	KERALA	39	91	543	673



Table 3.1.3 Number of other institutions under DHS 2019-20

Sl no	District	School of Nursing	Training Centres	Government Public Lab	DVC Unit	OTHERS(DHS,DMOH, Offset Press)	Total
1	TVM	1	4	1	1	3	10
2	KLM	2	0	1	1	1	5
3	PTA	1	0	1	1	1	4
4	ALP	1	0	1	1	1	4
5	KTM	1	1	0	1	1	4
6	IDK	1	0	0	1	1	3
7	EKM	1	0	1	1	1	4
8	TSR	1	0	0	1	1	3
9	PKD	1	1	0	1	1	4
10	MLP	1	0	1	1	1	4
11	KKD	1	2	1	1	1	6
12	WND	1	0	1	1	1	4
13	KNR	1	0	1	1	1	4
14	KSD	1	1	0	1	1	4
15	Total	15	9	9	14	16	63

Table 3.1.4 Bed strength in the institutions under DHS by type of institution 2019-20

Sl.No.	District	Number of institutions	Number of Beds
1	TVM	118	4914
2	KLM	88	2290
3	PTA	64	1960
4	ALP	90	3424
5	KTM	84	2823
6	IDK	61	1120
7	EKM	115	4518
8	TSR	118	3435
9	PKD	114	2819
10	MLP	125	2546
11	KKD	93	2816
12	WND	45	1367
13	KNR	112	2966
14	KSD	57	1087
15	Total	1284	38085

1. Sanctioned number of beds are given as bed strength

Table 3.1.5 Bed strength in the District Hospitals 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	0	0	2	562	2	562
2	KLM	0	0	1	537	1	537
3	PTA	1	234	0	0	1	234
4	ALP	0	0	2	487	2	487
5	KTM	0	0	0	0	0	0
6	IDK	1	130	1	144	2	274
7	EKM	0	0	1	217	1	217
8	TSR	0	0	1	117	1	117
9	PKD	0	0	1	544	1	544
10	MLP	0	0	3	483	3	483
11	KKD	0	0	1	210	1	210
12	WND	0	0	1	500	1	500
13	KNR	0	0	1	616	1	616
14	KSD	0	0	1	400	1	400
15	KERALA	2	364	16	4817	18	5181

1. Sanctioned number of beds are given as bed strength

Table 3.1.6 Bed strength in the General Hospitals 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	0	0	2	1183	2	1183
2	KLM	0	0	0	0	0	0
3	PTA	0	0	2	714	2	714
4	ALP	0	0	1	400	1	400
5	KTM	1	142	3	922	4	1064
6	IDK	0	0	0	0	0	0
7	EKM	0	0	2	1049	2	1049
8	TSR	0	0	2	456	2	456
9	PKD	0	0	0	0	0	0
10	MLP	0	0	1	501	1	501
11	KKD	0	0	1	550	1	550
12	WND	0	0	1	250	1	250
13	KNR	0	0	1	541	1	541
14	KSD	0	0	1	212	1	212
15	KERALA	1	142	17	6778	18	6920

1. Sanctioned number of beds are given as bed strength

Table 3.1.7 Bed strength in the Taluk Head Quarters Hospital 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	3	420	0	0	3	420
2	KLM	2	152	3	551	5	703
3	PTA	3	257	1	173	4	430
4	ALP	1	106	3	526	4	632
5	KTM	2	279	1	272	3	551
6	IDK	3	260	1	30	4	260
7	EKM	0	0	5	930	5	930
8	TSR	0	0	3	460	3	460
9	PKD	1	154	4	484	5	638
10	MLP	0	0	4	422	4	422
11	KKD	0	0	1	159	1	159
12	WND	1	129	1	57	2	186
13	KNR	0	0	1	171	1	171
14	KSD	3	83	1	42	4	125
15	KERALA	19	1840	29	4277	48	6117

1. Sanctioned number of beds are given as bed strength

Table 3.1.8 Bed strength in the Taluk Hospitals 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	1	65	4	261	5	326
2	KLM	3	203	1	66	4	269
3	PTA	0	0	0	0	0	0
4	ALP	2	42	0	0	2	42
5	KTM	0	0	0	0	0	0
6	IDK	0	0	0	0	0	0
7	EKM	2	119	4	404	6	523
8	TSR	2	107	1	124	3	231
9	PKD	1	34	0	0	1	34
10	MLP	3	99	0	0	3	99
11	KKD	5	391	1	24	6	415
12	WND	0	0	0	0	0	0
13	KNR	4	172	4	401	8	573
14	KSD	1	42	0	0	1	42
15	KERALA	24	1274	15	1280	39	2554

1. Sanctioned number of beds are given as bed strength

Table 3.1.9 Bed strength in the Community Health Centers 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	19	501	1	89	20	590
2	KLM	10	267	1	16	11	283
3	PTA	7	174	0	0	7	174
4	ALP	15	398	0	0	15	398
5	KTM	13	412	0	0	13	412
6	IDK	8	172	0	0	8	172
7	EKM	20	627	1	90	21	717
8	TSR	21	756	1	18	22	774
9	PKD	14	486	2	77	16	563
10	MLP	14	322	2	64	16	386
11	KKD	12	229	3	48	15	277
12	WND	7	209	0	0	7	209
13	KNR	6	213	1	24	7	237
14	KSD	6	140	0	0	6	140
15	KERALA	172	4906	12	426	184	5332

1. Sanctioned number of beds are given as bed strength

Table 3.1.10 Bed strength in the 24x7 Primary Health Centers 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	0	0	0	0	0	0
2	KLM	1	24	0	0	1	24
3	PTA	1	24	0	0	1	24
4	ALP	0	0	0	0	0	0
5	KTM	1	20	0	0	1	20
6	IDK	3	10	0	0	3	10
7	EKM	3	94	0	0	3	94
8	TSR	2	48	0	0	2	48
9	PKD	0	0	0	0	0	0
10	MLP	3	44	1	16	4	60
11	KKD	0	0	0	0	0	0
12	WND	1	10	0	0	1	10
13	KNR	2	34	0	0	2	34
14	KSD	1	24	0	0	1	24
15	KERALA	18	332	1	16	19	348

1. Sanctioned number of beds are given as bed strength

Table 3.1.11 Bed strength in the Primary Health Centers 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	10	40	4	10	14	50
2	KLM	12	6	0	0	12	6
3	PTA	12	24	1	0	13	24
4	ALP	8	24	0	0	8	24
5	KTM	16	0	0	0	16	0
6	IDK	8	26	0	0	8	26
7	EKM	16	24	4	0	20	24
8	TSR	8	0	5	0	13	0
9	PKD	17	38	1	0	18	38
10	MLP	24	50	2	0	26	50
11	KKD	14	28	1	0	15	28
12	WND	5	0	0	0	5	0
13	KNR	18	100	3	0	21	100
14	KSD	10	0	0	0	10	0
15	KERALA	178	360	21	10	199	370

1. Sanctioned number of beds are given as bed strength

Table 3.1.12 Bed strength in the modern medicine institutions selected or converted as FHC's 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	50	230	8	24	58	254
2	KLM	45	133	5	12	50	145
3	PTA	33	360	1	0	34	360
4	ALP	54	330	0	0	54	330
5	KTM	42	578	3	48	45	626
6	IDK	33	348	0	0	33	348
7	EKM	48	750	6	82	54	832
8	TSR	60	328	6	0	66	328
9	PKD	61	642	0	0	61	642
10	MLP	57	298	2	24	59	322
11	KKD	44	122	6	24	50	146
12	WND	17	212	2	0	19	212
13	KNR	53	456	8	24	61	480
14	KSD	28	144	1	0	29	144
15	KERALA	625	4931	48	238	673	5169

1. Sanctioned number of beds are given as bed strength

Table 3.1.13 Bed strength in the District TB centers 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	0	0	1	0	1	0
2	KLM	0	0	1	0	1	0
3	PTA	1	0	0	0	1	0
4	ALP	0	0	1	24	1	24
5	KTM	0	0	1	0	1	0
6	IDK	1	0	0	0	1	0
7	EKM	0	0	1	0	1	0
8	TSR	0	0	1	0	1	0
9	PKD	0	0	1	0	1	0
10	MLP	0	0	1	0	1	0
11	KKD	0	0	1	0	1	0
12	WND	0	0	1	0	1	0
13	KNR	0	0	1	0	1	0
14	KSD	0	0	1	0	1	0
15	KERALA	2	0	12	24	14	24

1. Sanctioned number of beds are given as bed strength

Table 3.1.14 Bed strength in the Dispenseries/Health clinics under DHS 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	1	0	7	46	8	46
2	KLM	0	0	1	0	1	0
3	PTA	1	0	0	0	1	0
4	ALP	0	0	0	0	0	0
5	KTM	0	0	0	0	0	0
6	IDK	1	0	1	0	2	0
7	EKM	0	0	1	0	1	0
8	TSR	2	0	1	0	3	0
9	PKD	9	10	0	0	9	10
10	MLP	4	0	2	36	6	36
11	KKD	0	0	0	0	0	0
12	WND	5	0	3	0	8	0
13	KNR	2	46	4	0	6	46
14	KSD	2	0	1	0	3	0
15	KERALA	27	56	21	82	48	138

1. Sanctioned number of beds are given as bed strength

Table 3.1.15 Bed strength in the W & C Hospitals 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	0	0	1	428	1	148
2	KLM	0	0	1	273	1	273
3	PTA	0	0	0	0	0	0
4	ALP	0	0	1	308	1	308
5	KTM	0	0	0	0	0	0
6	IDK	0	0	0	0	0	0
7	EKM	0	0	1	132	1	132
8	TSR	0	0	0	0	0	0
9	PKD	0	0	1	250	1	250
10	MLP	0	0	1	135	1	135
11	KKD	0	0	1	295	1	295
12	WND	0	0	0	0	0	0
13	KNR	0	0	1	100	1	100
14	KSD	0	0	0	0	0	0
15	KERALA	0	0	8	1921	8	1921

1. Sanctioned number of beds are given as bed strength

Table 3.1.16 Bed strength in the Mental Health centers 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	0	0	1	507	1	507
2	KLM	0	0	0	0	0	0
3	PTA	0	0	0	0	0	0
4	ALP	0	0	0	0	0	0
5	KTM	0	0	0	0	0	0
6	IDK	0	0	0	0	0	0
7	EKM	0	0	0	0	0	0
8	TSR	0	0	1	361	1	361
9	PKD	0	0	0	0	0	0
10	MLP	0	0	0	0	0	0
11	KKD	0	0	1	474	1	474
12	WND	0	0	0	0	0	0
13	KNR	0	0	0	0	0	0
14	KSD	0	0	0	0	0	0
15	KERALA	0	0	3	1342	3	1342

1. Sanctioned number of beds are given as bed strength

Table 3.1.17 Bed strength in the TB Hospitals under DHS 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	0	0	1	508	1	508
2	KLM	0	0	1	50	1	50
3	PTA	0	0	0	0	0	0
4	ALP	1	12	0	0	1	12
5	KTM	0	0	0	0	0	0
6	IDK	0	0	0	0	0	0
7	EKM	0	0	0	0	0	0
8	TSR	0	0	0	0	0	0
9	PKD	0	0	0	0	0	0
10	MLP	0	0	1	52	1	52
11	KKD	0	0	0	0	0	0
12	WND	0	0	0	0	0	0
13	KNR	0	0	0	0	0	0
14	KSD	0	0	0	0	0	0
15	KERALA	1	12	3	610	4	622

1. Sanctioned number of beds are given as bed strength

Table 3.1.18 Bed strength in the Leprosy Hospitals under DHS 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	0	0	0	0	0	0
2	KLM	0	0	0	0	0	0
3	PTA	0	0	0	0	0	0
4	ALP	1	767	0	0	1	767
5	KTM	0	0	0	0	0	0
6	IDK	0	0	0	0	0	0
7	EKM	0	0	0	0	0	0
8	TSR	1	660	0	0	1	660
9	PKD	0	0	0	0	0	0
10	MLP	0	0	0	0	0	0
11	KKD	0	0	1	262	1	262
12	WND	0	0	0	0	0	0
13	KNR	0	0	0	0	0	0
14	KSD	0	0	0	0	0	0
15	KERALA	2	1427	1	262	3	1689

1. Sanctioned number of beds are given as bed strength

Table 3.1.19 Bed strength in the other specialty Hospitals under DHS 2019-20

SL NO	DISTRICT	RURAL		URBAN		TOTAL	
		Number of institutions	Bed strength	Number of institutions	Bed strength	Number of institutions	Bed strength
1	TVM	0	0	2	40	2	40
2	KLM	0	0	0	0	0	0
3	PTA	0	0	0	0	0	0
4	ALP	0	0	0	0	0	0
5	KTM	1	150	0	0	1	150
6	IDK	0	0	0	0	0	0
7	EKM	0	0	0	0	0	0
8	TSR	0	0	0	0	0	0
9	PKD	1	100	0	0	1	100
10	MLP	0	0	0	0	0	0
11	KKD	0	0	0	0	0	0
12	WND	0	0	0	0	0	0
13	KNR	1	30	1	38	2	68
14	KSD	0	0	0	0	0	0
15	KERALA	3	280	3	78	6	358

1. Sanctioned number of beds are given as bed strength

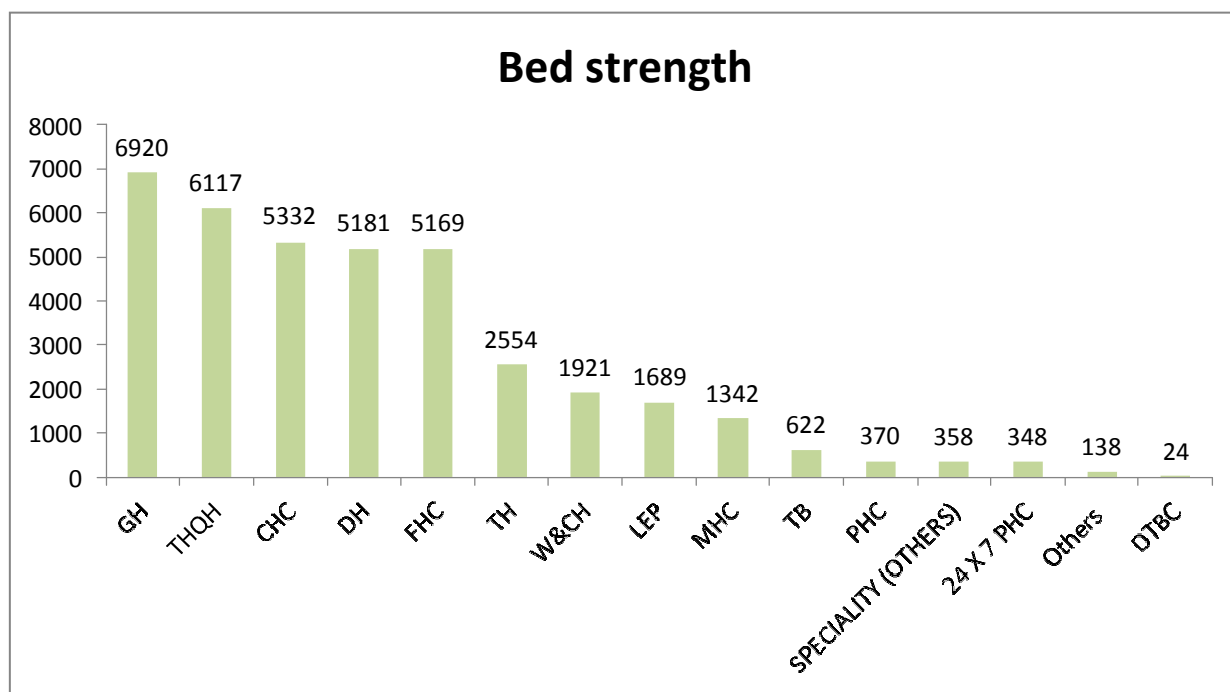


Table 3.1.20 Bed Population Ratio in the institutions under DHS 2019-20

Sl.No.	District	Population (Census 2011)	No. of Beds	Ratio
1	TVM	3301427	4914	672
2	KLM	2635375	2290	1151
3	PTA	1197412	1960	611
4	ALP	2127789	3424	621
5	KTM	1974551	2823	699
6	IDK	1108974	1120	990
7	EKM	3282388	4518	727
8	TSR	3121200	3435	909
9	PKD	2809934	2819	997
10	MLP	4112920	2546	1615
11	KKD	3086293	2816	1096
12	WND	817420	1367	598
13	KNR	2523003	2966	850
14	KSD	1307375	1087	1203
	KERALA	33406061	38085	877

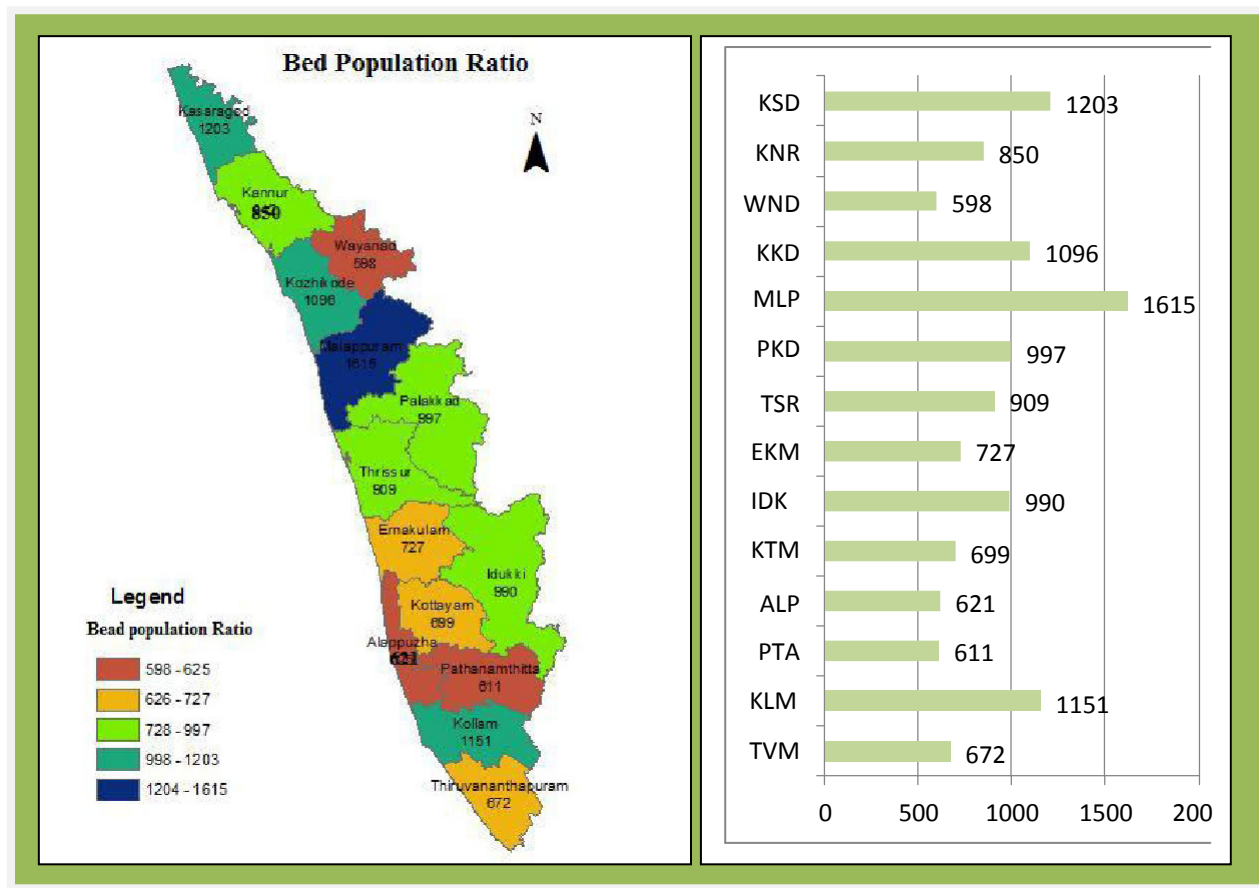


Table 3.1.20 Doctor Bed Ratio in the institutions under DHS 2019-20

Sl.No.	District	Number of Doctors#	No. of Beds	Ratio
1	TVM	638	4914	7.7
2	KLM	409	2290	5.6
3	PTA	334	1960	5.87
4	ALP	456	3424	7.51
5	KTM	420	2823	6.72
6	IDK	259	1120	4.32
7	EKM	558	4518	8.1
8	TSR	492	3435	6.98
9	PKD	453	2819	6.22
10	MLP	563	2546	4.52
11	KKD	429	2816	6.56
12	WND	223	1367	6.13
13	KNR	517	2966	5.74
14	KSD	265	1087	4.1
	KERALA	6016	38085	6.33

Number of doctors (Administrative cadre) is not included here

Table 3.1.21 District wise number of ICU beds and Ventilators in the institutions under DHS as on 31.03.2020

Sl.No.	District	No.of ICU beds	No. of Ventilators
1	TVM	9	9
2	KLM	49	21
3	PTA	41	22
4	ALP	32	13
5	KTM	6	5
6	IDK	56	11
7	EKM	93	24
8	TSR	18	11
9	PKD	24	30
10	MLP	56	24
11	KKD	33	18
12	WND	39	17
13	KNR	28	33
14	KSD	15	8
15	KERALA	499	246

Table 3.1.22 District wise number of Blood Banks in Kerala 2019-20

Sl.No.	District	Number of Blood Banks		
		Public	Private	Total
1	TVM	7	11	18
2	KLM	4	10	14
3	PTA	2	13	15
4	ALP	3	5	8
5	KTM	2	14	16
6	IDK	1	9	10
7	EKM	4	21	25
8	TSR	2	15	17
9	PKD	3	7	10
10	MLP	3	6	9
11	KKD	6	13	19
12	WND	2	2	4
13	KNR	7	6	13
14	KSD	2	0	2
	State	48	132	180

List of Blood Banks is given in Appendix A

Table 3.1.23 District wise number of Delivery Points in Kerala 2019-20

SL NO	DISTRICT	Under DHS							Under DME	Total
		DH	GH	W&C	GTSH	THQH	TH	CHC		
1	TVPM	2	1	2	0	2	4	0	1	12
2	KLM	0	0	1	0	4	2	0	1	8
3	PTA	1	2	0	0	2	0	0	0	5
4	ALP	2	0	1	0	3	0	0	1	7
5	KTM	0	4	0	0	2	0	0	1	7
6	IDK	2	0	0	0	2	0	0	0	4
7	EKM	1	2	1	0	4	0	0	1	9
8	TSR	1	2	0	0	3	1	0	1	8
9	PKD	0	0	1	1	4	1	0	0	7
10	MLP	3	1	1	0	2	0	1	0	8
11	KKD	1	1	1	0	1	3	0	1	8
12	WYD	1	1	0	0	2	0	1	0	5
13	KNR	1	1	1	0	1	3	0	0	7
14	KSD	1	1	0	0	0	1	0	0	3
15	Kerala	16	16	9	1	32	15	2	7	98

List of Delivery points is given in Appendix A

Table 3.1.24 District wise number of Delivery points having Ultrasound scan and Blood transfusion and storage units 2019-20

SI No	District	No . Of Delivery Points	No . Of Delivery Points having	
			Ultra Sound Scan	Blood Transfusion and Storage Unit
1	TVPM	12	4	8
2	KLM	8	8	3
3	PTA	5	5	4
4	ALP	7	5	5
5	KTM	7	2	5
6	IDK	4	2	1
7	EKM	9	6	7
8	TSR	8	7	8
9	PKD	7	7	4
10	MLPM	8	6	6
11	KKD	8	5	7
12	WYD	5	4	3
13	KNR	7	4	6
14	KSD	3	1	2
15	Kerala	98	66	69

Table 3. 1.25 District wise number of Dialysis units under DHS 2019-20

SI No	District	No of Dialysis Units						
		DH	GH	THQH	TH	CHC	OTHERS	TOTAL
1	TVM	1	2	2	2			7
2	KLM	1	0	3	4			8
3	PTA	1	2	2				5
4	ALP	2	1	4				7
5	KTM	0	1	0				1
6	IDK	1	0	0				1
7	EKM	1	2	4	1		1	9
8	TSR	0	1	3	1	1		6
9	PKD	1	0	3		1	1	6
10	MLP	2	0	3		3	2	10
11	KKD	1	1	0	6			8
12	WND	1	0	2		1		4
13	KNR	1	1	1	4		1	8
14	KSD	1	1	0	1			3
15	KERALA	14	12	27	19	6	5	83

List is given in Appendix A

Table 3.1.26 District wise number of institutions having facilities for eye donation 2019-20

Sl.No.	District	Number of institutions having facilities for eye donation		
		Public	Private	Total
1	TVM	1	1	2
2	KLM	1	0	1
3	PTA	1	1	2
4	ALP	1	0	1
5	KTM	1	0	1
6	IDK	0	0	0
7	EKM	0	5	5
8	TSR	1	1	2
9	PKD	0	1	1
10	MLP	0	1	1
11	KKD	1	1	2
12	WND	0	0	0
13	KNR	3	0	3
14	KSD	0	0	0
	State	10	11	21

List is given in Appendix A

Table 3.1.27 District Wise Number of New Born Stabilization Units (NBSU) 2019-20

SI No	District	No of NBSU							TOTAL
		DH	GH	THQH	W& C	TH	CHC	Under DME	
1	TVM	2	1	2	0	2	1	0	8
2	KLM	0	0	4	0	1	0	0	5
3	PTA	1	2	0	0	0	0	0	3
4	ALP	2	3	3	0	0	0	0	8
5	KTM	0	0	1	0	0	0	0	1
6	IDK	1	1	2	0	0	0	0	4
7	EKM	1	0	4	1	0	0	0	6
8	TSR	1	0	3	0	1	0	0	5
9	PKD	0	0	4	0	0	0	0	4
10	MLP	3	0	3	0	2	1	0	9
11	KKD	1	0	1	0	3	0	0	5
12	WND	1	0	2	0	0	1	0	4
13	KNR	0	1	1	0	2	0	0	4
14	KSD	1	1	0	0	0	0	0	2
15	KERALA	14	9	30	1	11	3	0	68

List is given in Appendix A

Table 3.1.28 District Wise Number of Special New Born Care Units (SNCU) 2019-20

SI No	District	No of SNCU							
		DH	GH	THQH	W& C	TH	CHC	Under DME	TOTAL
1	TVM	0	0	0	1	0	0	1	2
2	KLM	1	0	0	1	0	0	0	2
3	PTA	0	0	0	0	0	0	0	0
4	ALP	0	0	0	0	0	0	1	1
5	KTM	0	1	0	0	0	0	1	2
6	IDK	0	0	0	0	0	0	0	0
7	EKM	0	1	0	0	0	0	1	2
8	TSR	0	1	0	1	0	0	1	3
9	PKD	1	0	0	0	0	0	0	1
10	MLP	0	1	0	1	0	0	1	3
11	KKD	0	0	0	0	0	0	0	0
12	WND	0	0	0	0	0	0	0	0
13	KNR	1	0	0	0	0	0	0	1
14	KSD	0	0	0	0	0	0	0	0
15	KERALA	3	4	0	4	0	0	6	17

List is given in Appendix A

Table 3.1.29 District wise number of Health Sub centers by type of Building 2019-20

SI No	District	number of Health Sub centers				
		Owned	Rented	Rent Free	Others	Total
1	TVM	280	69	60	76	485
2	KLM	241	117	51	12	421
3	PTA	153	56	31	21	261
4	ALP	172	146	37	11	366
5	KTM	225	32	45	31	333
6	IDK	223	18	41	27	309
7	EKM	281	21	50	58	410
8	TSR	282	24	39	126	471
9	PKD	464	11	2	26	503
10	MLP	522	45	19	3	589
11	KKD	274	32	24	71	401
12	WND	194	2	2	2	200
13	KNR	285	9	26	94	414
14	KSD	222	4	8	13	247
15	KERALA	3818	586	435	571	5410

Table 3.1.30 District wise number of institutions under DHS situated in Tribal Area 2019-20

SI No	District	number of institutions					
		DH & GH& W&C	THQH & TH	CHC	PHC	HSC	Total
1	TVM	0	1	2	7	17	27
2	KLM	0	1	1	6	13	21
3	PTA	0	0	2	4	17	23
4	ALP	0	0	0	0	0	0
5	KTM	0	0	3	10	31	44
6	IDK	1	1	3	22	58	85
7	EKM	0	0	1	1	10	12
8	TSR	0	0	3	8	20	31
9	PKD	0	0	1	15	73	89
10	MLP	1	2	4	18	62	87
11	KKD	0	0	2	15	41	58
12	WND	2	2	7	25	189	225
13	KNR	0	0	0	0	74	74
14	KSD	0	2	1	20	40	63
15	KERALA	4	9	30	151	645	839

Table 3.1.31 District wise number of institutions under DHS situated in Costal Area 2019-20

SI No	District	number of institutions					
		DH & GH& W&C	THQH & TH	CHC	PHC	HSC	Total
1	TVM	0	1	6	9	37	53
2	KLM	0	1	2	7	24	34
3	PTA	0	0	0	0	0	0
4	ALP	1	1	3	18	61	84
5	KTM	0	0	0	0	11	11
6	IDK	0	0	0	0	1	1
7	EKM	1	4	6	16	106	133
8	TSR	0	1	4	14	62	81
9	PKD	0	0	0	2	2	4
10	MLP	1	2	6	11	50	70
11	KKD	0	0	1	9	25	35
12	WND	0	0	0	0	0	0
13	KNR	2	1	1	13	25	42
14	KSD	2	3	0	10	24	39
15	KERALA	7	14	29	109	428	587

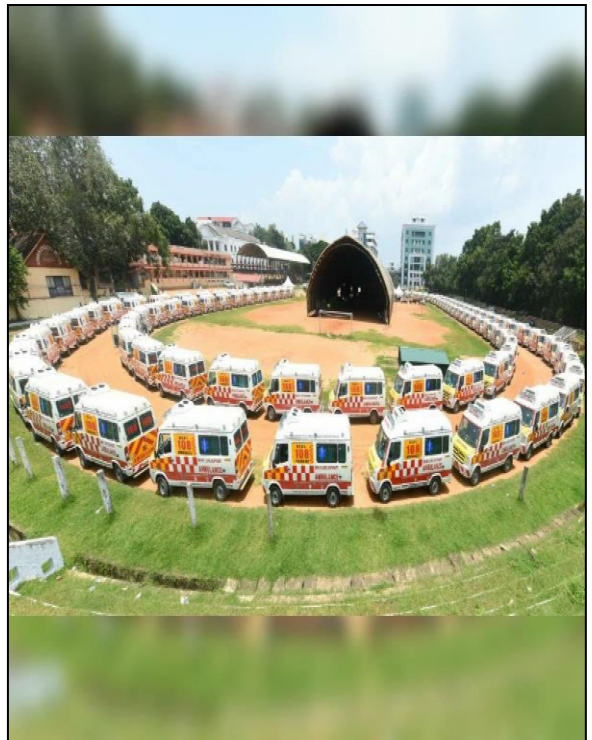


Table 3.1.32 AMBULANCE (ON ROAD) Status wise Abstract as On: 31-03-2020

Sl.No.	District	Advance Life Support	Basic Life Support	Patient Transport	Total
1	Trivandrum	4	16	36	56
2	Kollam	1	6	15	22
3	Pathanamthitta	4	10	21	35
4	Alappuzha	0	1	15	16
5	Kottayam	1	4	20	25
6	Idukki	2	3	10	15
7	Ernakulam	3	12	13	28
8	Thrissur	0	1	30	31
9	Palakkad	0	6	17	23
10	Malappuram	0	8	8	16
11	Kozhikode	2	12	20	34
12	Wayanad	0	4	17	21
13	Kannur	3	8	12	23
14	Kasargod	0	0	3	3
	Total	20	91	237	348

Table 3.1.33 AMBULANCE Status wise Abstract as On: 31-03-2020

Sl.No.	District	Advance Life Support	Basic Life Support	Patient Transport	Total
1	Trivandrum	5	18	37	60
2	Kollam	1	8	25	34
3	Pathanamthitta	7	15	22	44
4	Alappuzha	0	1	20	21
5	Kottayam	1	4	20	25
6	Idukki	2	3	18	23
7	Ernakulam	3	14	16	33
8	Thrissur	0	1	43	44
9	Palakkad	0	8	18	26
10	Malappuram	0	8	9	17
11	Kozhikode	2	13	25	40
12	Wayanad	2	4	19	25
13	Kannur	3	12	18	33
14	Kasargod	0	0	8	8
	TOTAL	26	109	298	433

Table 3.1.34 INSTITUTION WISE ON ROAD VEHICLES DETAIL As On : 31-03-2020

SI No	District	DHS	DMO	GH	DH	THQH	TH	CHC	PHC	24X7 PHC	FHC	DTBC	Others	SPECIALITY HOSPITAL					SUB CENTRE	Total
														W&CH	MHC	TB	LEP	SPECIALITY (Others)		
1	TVM	21	10	10	2	3	3	29	36	1	5	1	3	1	0	0	0	3	0	128
2	KLM	0	15	0	4	10	7	17	1	0	1	2	3	2	0	1	0	0	0	63
3	PTA	0	10	9	5	11	0	19	6	0	2	0	2	0	0	0	0	1	0	65
4	ALP	0	10	6	5	5	2	9	4	0	0	1	1	2	0	0	0	2	0	47
5	KTM	0	13	17	0	6	0	15	1	1	1	6	6	0	0	0	0	1	0	67
6	IDK	0	11	0	3	4	2	9	7	5	4	2	5	0	0	4	0	0	0	56
7	EKM	0	14	16	2	12	6	20	1	3	1	0	1	2	0	0	0	0	0	78
8	TSR	0	12	7	2	8	5	22	11	0	2	6	9	0	4	0	0	0	0	88
9	PKD	0	13	0	6	11	1	22	20	3	4	2	7	3	0	0	0	0	0	92
10	MLP	0	14	4	15	1	9	17	14	5	7	3	6	1	0	1	0	0	0	97
11	KKD	0	14	3	3	3	8	15	20	0	4	6	4	3	1	0	0	1	0	85
12	WYD	0	8	3	11	9	0	14	7	7	2	1	5	0	0	1	0	0	0	68
13	KNR	0	12	4	6	3	17	13	6	1	1	1	2	2	0	0	0	0	0	68
14	KSD	0	8	5	5	1	3	5	1	0	0	3	5	0	0	1	0	0	0	37
TOTAL		21	164	84	69	87	63	226	135	26	34	34	59	16	5	8	0	8	0	1039

Table 3.1.35 INSTITUTION WISE VEHICLE DETAILS As On: 31-03-2020

SI No	District	DHS	DMO	GH	DH	THQH	TH	CHC	PHC	24X7 PHC	FHC	DTBC	Others	SPECIALITY HOSPITALS					SUB CENT RE	Tota l
														W&C H	MH C	T B	LE P	OTH ERS		
1	TVM	21	15	11	2	3	4	29	37	1	5	1	4	1	0	0	0	3	0	137
2	KLM	0	16	0	5	16	8	20	2	0	3	2	3	4	0	1	0	0	0	80
3	PTA	0	11	15	6	13	0	22	6	0	2	1	3	0	0	0	0	1	0	80
4	ALP	0	10	6	7	6	3	11	5	0	0	1	1	4	0	0	0	2	0	56
5	KTM	0	14	17	0	6	0	15	2	1	1	7	8	0	0	0	0	1	0	72
6	IDK	0	12	0	5	5	2	15	7	5	6	2	6	0	0	4	0	0	0	69
7	EKM	0	14	17	2	14	7	20	1	4	1	1	1	2	0	0	0	0	0	84
8	TSR	0	12	7	3	9	6	31	13	0	2	6	10	0	4	0	0	0	0	103
9	PKD	0	13	0	6	12	2	23	20	3	6	2	8	3	0	0	0	0	0	98
10	MLP	0	14	4	16	1	9	17	14	5	7	9	6	1	0	1	0	0	0	104
11	KKD	0	15	4	5	4	11	16	20	0	4	6	4	3	1	0	0	1	0	94
12	WYD	0	8	3	13	12	0	15	8	7	2	1	5	0	0	3	0	0	0	77
13	KNR	0	23	6	8	4	21	16	9	1	1	1	3	3	0	0	0	0	0	96
14	KSD	0	12	7	6	1	6	5	1	0	0	3	5	0	0	1	0	0	0	47
TOTAL		21	189	97	84	106	79	255	145	27	40	43	67	21	5	10	0	8	0	1197

Table 3.1.36 ON ROAD VEHICLES AS ON 31.03.2020

Sl No	District	Ambulance	Car	Jeep	Two Wheeler	Buses	Van	Mini Van	Mini Bus	Fire Engine	Auto Rickshaw	Spacio	GOODS CARRIER				Total
													Insulated Van	Delivery Van	Lorry	Truck	
1	TVM	56	18	15	0	1	4	8	17	0	0	7	0	1	1	0	128
2	KLM	22	10	10	0	1	1	0	9	0	0	7	2	1	0	0	63
3	PTA	35	5	4	0	0	0	1	13	0	0	5	1	1	0	0	65
4	ALP	16	1	14	0	0	0	0	7	0	0	7	0	2	0	0	47
5	KTM	25	3	14	5	0	3	0	8	0	0	7	1	1	0	0	67
6	IDK	15	6	16	6	0	0	0	5	0	0	5	0	1	2	0	56
7	EKM	28	5	13	0	0	9	3	9	0	0	10	1	0	0	0	78
8	TSR	31	1	21	5	0	2	0	12	0	1	10	4	1	0	0	88
9	PKD	23	1	43	1	0	1	0	7	0	0	13	0	3	0	0	92
10	MLP	16	10	37	7	1	4	0	8	0	0	12	0	2	0	0	97
11	KKD	34	2	10	5	1	4	5	5	0	0	17	2	0	0	0	85
12	WYD	21	4	27	2	0	2	2	4	0	0	4	1	1	0	0	68
13	KNR	23	5	22	0	0	3	0	9	0	0	4	2	0	0	0	68
14	KSD	3	3	12	3	0	1	0	6	0	0	6	3	0	0	0	37
TOTAL		348	74	258	34	4	34	19	119	0	1	114	17	14	3	0	1039

Table 3.1.37 VEHICLE TYPE WISE VEHICLE DETAILS As On: 31-03-2020

Sl No	District	Ambulance	Car	Jeep	Two Wheeler	Buses	Van	Mini Van	Mini Bus	Fire Engine	Auto Rickshaw	Spacio	GOODS CARRIER				Total
													Insulated Van	Delivery Van	Lorry	Truck	
1	TVM	60	20	15	0	1	4	8	17	0	0	9	1	1	1	0	137
2	KLM	34	10	10	3	1	2	0	10	0	0	7	2	1	0	0	80
3	PTA	44	6	6	0	0	1	1	14	0	0	5	1	2	0	0	80
4	ALP	21	1	16	0	0	0	0	9	0	0	7	0	2	0	0	56
5	KTM	25	3	15	5	0	4	1	10	0	0	7	1	1	0	0	72
6	IDK	23	6	18	6	0	0	0	8	0	0	5	0	1	2	0	69
7	EKM	33	5	14	0	0	9	3	9	0	0	10	1	0	0	0	84
8	TSR	44	1	22	5	0	2	0	13	0	1	10	4	1	0	0	103
9	PKD	26	1	45	1	0	1	0	8	0	0	13	0	3	0	0	98
10	MLP	17	10	37	13	1	4	0	8	0	0	12	0	2	0	0	104
11	KKD	40	3	10	5	1	5	5	6	0	0	17	2	0	0	0	94
12	WYD	25	4	29	4	0	2	2	5	0	0	4	1	1	0	0	77
13	KNR	33	5	30	0	0	6	0	15	0	0	4	2	1	0	0	96
14	KSD	8	4	14	3	0	1	0	7	0	0	6	3	1	0	0	47
TOTAL		433	79	281	45	4	41	20	139	0	1	116	18	17	3	0	1197

3.2 HUMAN RESOURCES

Table 3.2.1 Details of Medical and Paramedical Staff in Department of Health Services 2019-20

Sl. No	Category	No. of Posts
I.	Medical	
1	Director of Health Services	1
2	Addl Director of Health Services / Director PH Lab	14
3	DD/District Medical Officer/Superintendent	53
4	DY.DHS Dental	1
5	Assistant Director/DY.DMO/Superintendent/RCH Officer	171
6	Jr. Administrative Medical Officer / District TB Officer	33
7	Chief Consultant	19
8	Senior Consultant	77
9	Medical Consultant	710
10	Junior Medical Consultant	1368
11	Civil Surgeon	231
12	Dental Civil Surgeon	16
13	Assistant Surgeon	2911
14	Dental Assistant Surgeon	125
15	Casualty Medical Officer(Assistant Surgeon)	559
15	State Nutrition officer	1
	Total (Medical)	6290
II.	Paramedical	
1	Staff Nurse	7014
2	Head Nurse	1512
3	Health Supervisor	175
4	Public Health Nursing Supervisor/Lady Health Supervisor	153
5	Health Inspector	875
6	Public Health Nurse/ Lady Health Inspector	961
7	Lab Technician	1436
8	Ophthalmic Assistant	315
9	X-ray Technician/Radiographer	209
10	Pharmacist	1791
11	Junior Health Inspector	3630
12	Evaluation Assistants	5
13	Junior Public Health Nurse	5542
III.	Other Staff	19511
	Total (Para Medical)	23618
	Total Staff	49419

3.3 OUT PATIENTS AND INPATIENTS IN THE INSTITUTIONS UNDER DHS AND NHM 2019-20

Table 3.3.1 Number of Out patients and inpatients in the institutions under DHS and NHM 2019-20

Sl no	District	Out Patients	In Patients
1	TVM	11550699	221002
2	KLM	8065670	85863
3	PTA	4094462	158875
4	ALP	6629452	92907
5	KTM	6529701	66517
6	IDK	3127862	28833
7	EKM	9132363	110740
8	TSR	8422035	135413
9	PKD	7125458	142425
10	MLP	13000509	227368
11	KKD	8661137	70880
12	WND	3178220	43500
13	KNR	7879387	73349
14	KSD	3310132	43973
15	KERALA	100707087	1501645

Chart 3.3.1 Percentage of increase in OP and IP in the institutions under DHS and NHM from 2018-19 to 2019-20

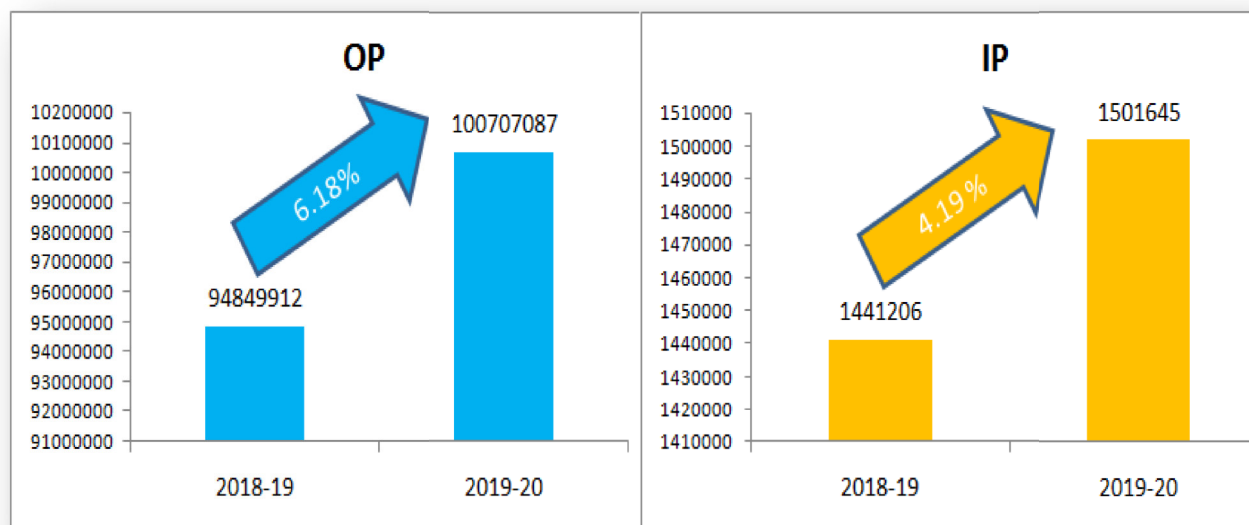
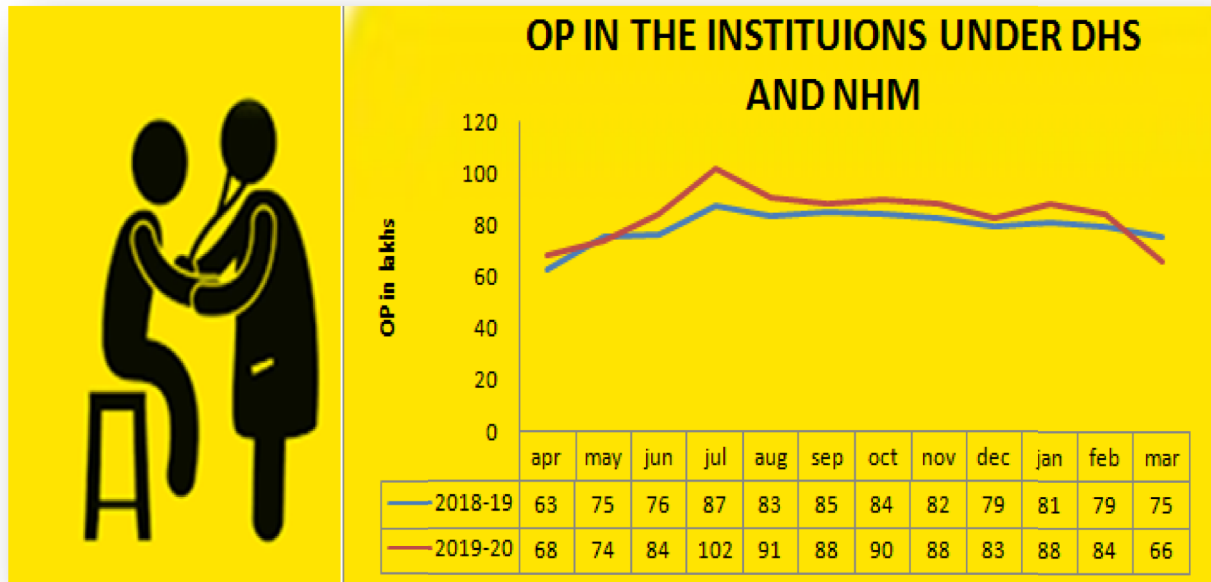
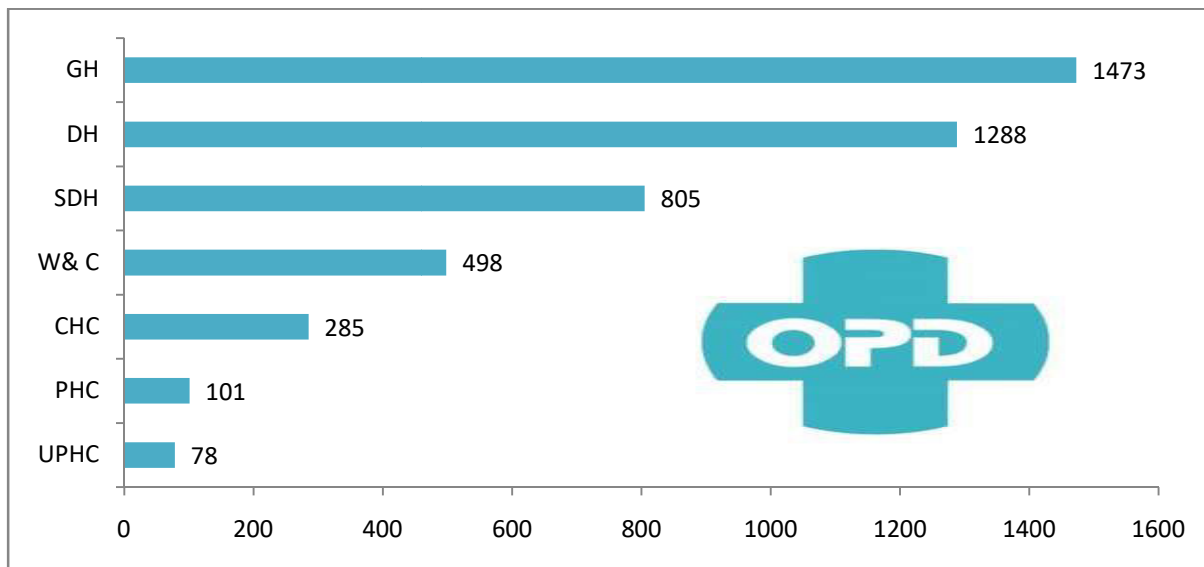


Chart 3.3.2 Month wise comparison of OP in the institutions under DHS and NHM



OP decreased in 2020 March compared to 2019 March due to covid 19 Pandemic

Chart 3.3.3 Average daily op in the institutions under DHS and NHM by type of institutions 2019-20



Holidays not excluded for the calculation of daily OP

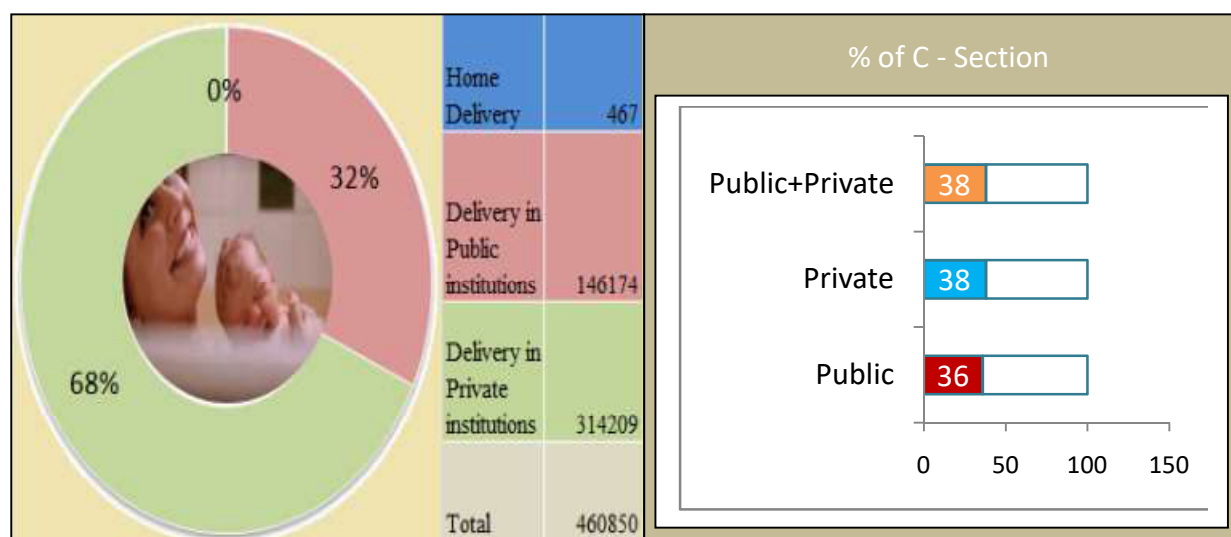
Institutions selected or Converted as Family Health centers (FHC) are included in the number of PHC's and CHC's.

3.4 FAMILY WELFARE ACHIEVEMENT

3.4.1 Number of pregnant women registered for ANC 2019-20

Sl no	District	Total Number of pregnant women Registered for ANC	Number of pregnant women registered with I first trimester	% of pregnant women registered with I first trimester
1	TVM	74715	51395	68.79
2	KLM	31899	28067	87.99
3	PTA	12058	9608	79.68
4	ALP	23667	20439	86.36
5	KTM	20036	16648	83.09
6	IDK	13136	11557	87.98
7	EKM	37579	30414	80.93
8	TSR	41468	34564	83.35
9	PKD	43093	37924	88.01
10	MLP	100746	84483	83.86
11	KKD	49307	44060	89.36
12	WND	14015	13101	93.48
13	KNR	40324	33314	82.62
14	KSD	25583	22393	87.53
15	KERALA	527626	437967	83.01

chart 3.4.1 Number of Deliveries in Kerala 2019-20



3.4.2 District wise number of Deliveries 2019-20

Sl. No	District	No of Home delivery	No. of Deliveries in Public institutions	No. of Deliveries in Private institutions	Total Delivery	No. of Caesarean Deliveries in Public institutions	No. of Caesarean Deliveries in Private institutions	Total Caesarean Delivery
1	TVM	18	21006	19354	40378	7473	8962	16435
2	KLM	19	10107	15274	25400	1184	3272	4456
3	PTA	13	4414	9997	14424	1843	5196	7039
4	ALP	15	8540	7310	15865	3780	3966	7746
5	KTM	8	8913	13599	22520	4081	8161	12242
6	IDK	27	4082	6321	10430	1924	3017	4941
7	EKM	17	9326	32066	41409	4320	14815	19135
8	TSR	17	11813	29828	41658	4196	11733	15929
9	PKD	27	8576	24851	33454	3091	7934	11025
10	MLP	193	17093	71414	88700	4470	21099	25569
11	KKD	13	22503	29716	52232	3256	6207	9463
12	WND	62	5401	9114	14577	1364	3392	4756
13	KNR	18	9600	31711	41329	7677	10783	18460
14	KSD	20	4800	13654	18474	3980	11911	15891
15	KERALA	467	146174	314209	460850	52639	120448	173087

3.4.3 Family Planning

Table 3.4.3.1 Details of contraceptive methods conducted in 2019-20

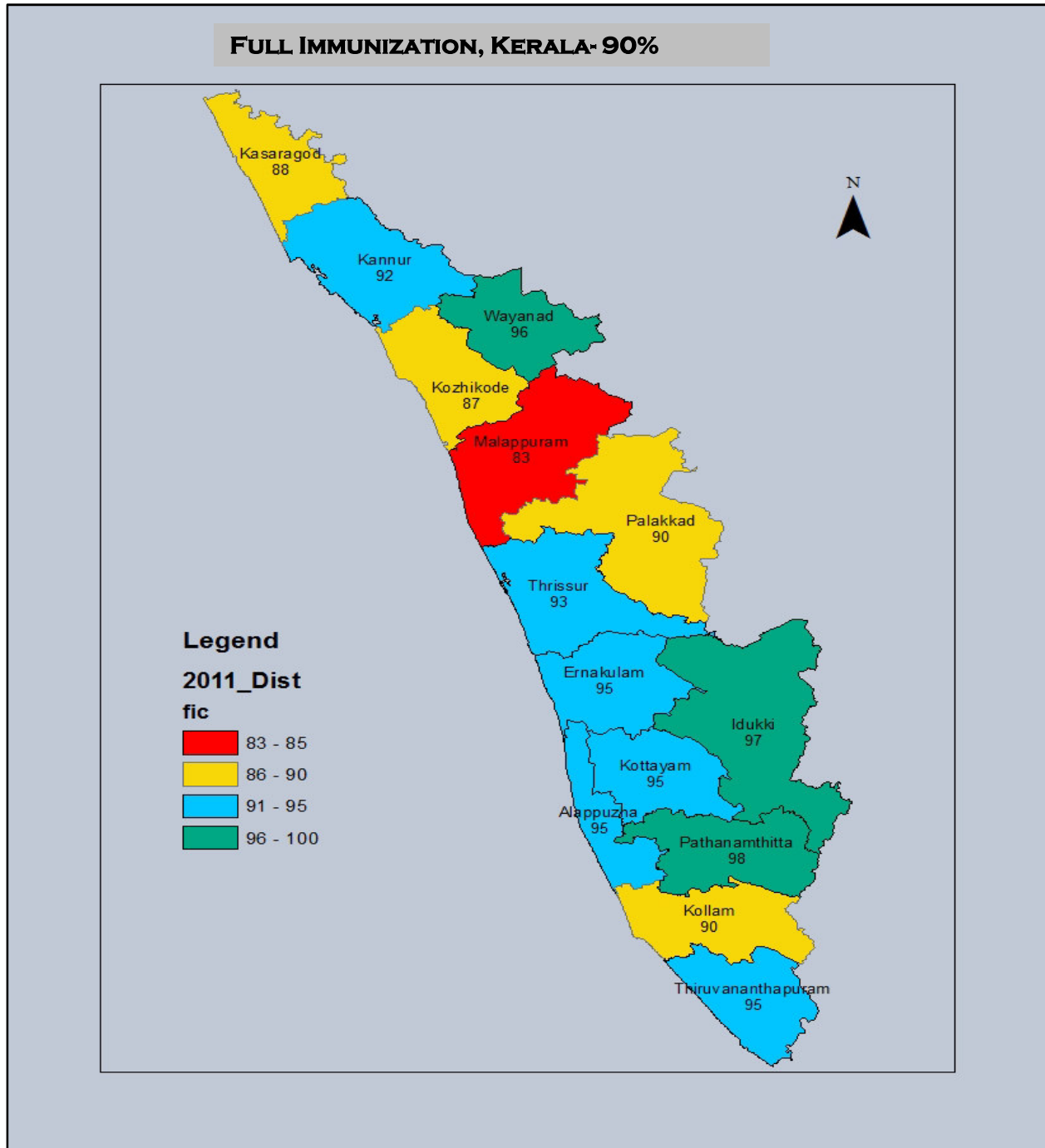
SL NO	DISTRICT	IUD INSERTIONS			CONDOMS DISTRIBUTED			ORAL PILLS CYCLES/DISTRIBUTED		
		Public	Private	Total	Public	Private	Total	Public	Private	Total
1	TVM	1705	348	2053	422060	4753	426813	5959	290	6249
2	KLM	1768	300	2068	116799	80	116879	3696	39	3735
3	PTA	636	206	842	49911	0	49911	1049	0	1049
4	ALP	1255	85	1340	143113	2470	145583	2794	80	2874
5	KTM	2293	184	2477	107009	0	107009	6434	0	6434
6	IDK	1099	48	1147	44066	0	44066	877	21	898
7	EKM	1930	612	2542	293304	9724	303028	4865	144	5009
8	TSR	2546	719	3265	130753	0	130753	3794	13	3807
9	PKD	2829	278	3107	47482	575	48057	779	26	805
10	MLP	3240	2285	5525	134705	676	135381	5901	949	6850
11	KKD	2950	385	3335	152980	0	152980	6136	57	6193
12	WND	746	126	872	70473	0	70473	2018	283	2301
13	KNR	2254	67	2321	82808	36	82844	4779	12	4791
14	KSD	1939	33	1972	83020	24	83044	3538	46	3584
15	KERALA	27190	5676	32866	1878483	18338	1896821	52619	1960	54579

Table 3.4.3.2 Details of Sterilizations 2019-20

Sl no	District	NSV/CONVENTIONAL VASAC-TOMY			POST PARTUM STERILIZATION			MINI LAP			LAPORO-SCOPY			TOTAL STERILIZATION		
		Public	Pvt	Total	Public	Pvt	Total	Public	Pvt	Total	Public	Pvt	Total	Public	Pvt	Total
1	TVM	32	0	32	3700	2218	5918	53	249	302	1970	845	2815	5755	3312	9067
2	KLM	8	0	8	3428	2214	5642	174	136	310	189	183	372	3799	2533	6332
3	PTA	2	0	2	1068	1039	2107	93	55	148	97	227	324	1260	1321	2581
4	ALP	188	0	188	1573	870	2443	26	67	93	190	93	283	1977	1030	3007
5	KTM	115	0	115	1621	475	2096	72	48	120	556	170	726	2364	693	3057
6	IDK	13	0	13	1084	770	1854	32	45	77	97	64	161	1226	879	2105
7	EKM	67	5	72	1828	3465	5293	122	213	335	385	766	1151	2402	4449	6851
8	TSR	54	3	57	1904	2039	3943	178	321	499	1031	533	1564	3167	2896	6063
9	PKD	20	0	20	1888	1838	3726	57	443	500	1300	367	1667	3265	2648	5913
10	MLP	11	7	18	2302	4419	6721	213	244	457	490	690	1180	3016	5360	8376
11	KKD	40	0	40	3688	2669	6357	158	204	362	518	354	872	4404	3227	7631
12	WND	31	0	31	1144	459	1603	63	9	72	172	118	290	1410	586	1996
13	KNR	43	0	43	2125	2809	4934	19	210	229	519	548	1067	2706	3567	6273
14	KSD	19	0	19	392	286	678	0	45	45	250	84	334	661	415	1076
15	KERALA	643	15	658	27745	25570	53315	1260	2289	3549	7764	5042	12806	37412	32916	70328

3.4.4 IMMUNIZATION

Chart 3.4.4.1 Full Immunization coverage in Kerala 2019-20 (Children born on 2018-19)



Source: RCH portal

Table 3.4.4.1 Immunization coverage in Kerala 2019-20(Children born in 2018-19)

SI No	District	Full Immunized (%)	Partially Immunized (%)	Unimmunized (%)
1	TVM	95	4	1
2	KLM	90	10	1
3	PTA	98	1	0
4	ALP	95	4	0
5	KTM	95	5	1
6	IDK	97	2	1
7	EKM	95	5	1
8	TSR	93	6	1
9	PKD	90	10	1
10	MLP	83	14	3
11	KKD	87	12	1
12	WND	96	3	1
13	KNR	92	8	1
14	KSD	88	11	1
15	KERALA	90	9	1

chart 3.4.4.1 1 Immunization coverage in Kerala 2019-20(Children born in 2018-19)

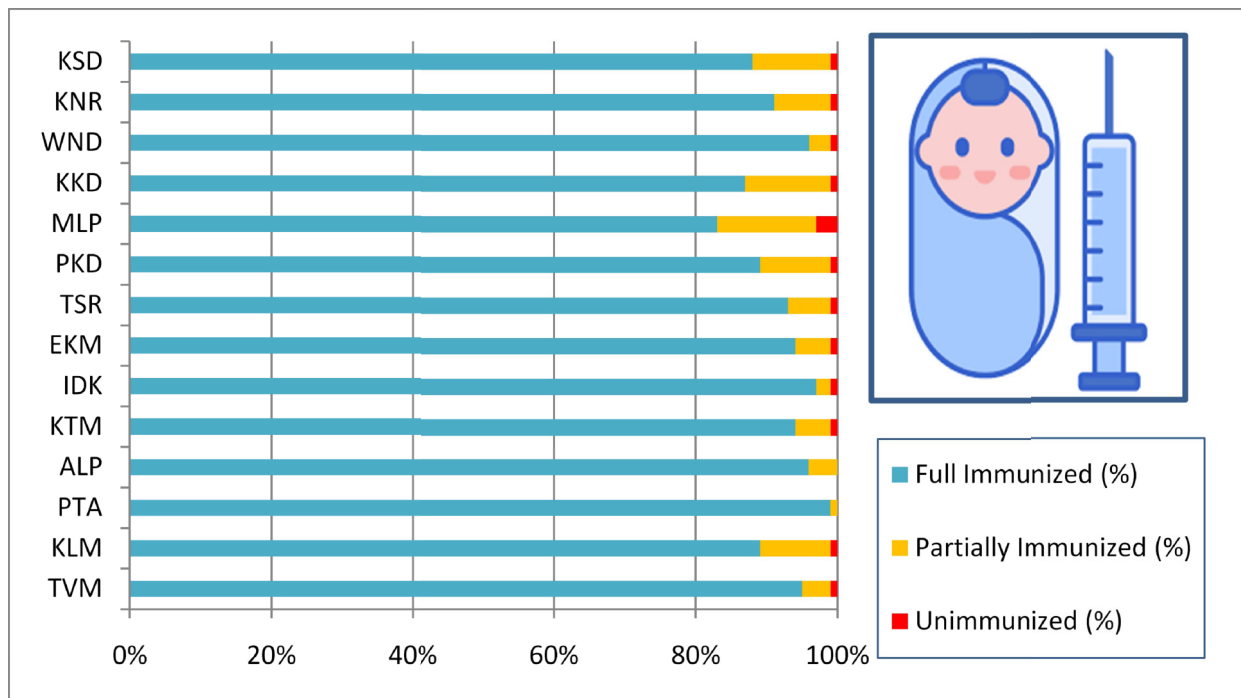


Table 3.4.4.2 Percentage of children received different vaccines among the children registered in RCH portal with Date of Birth 2018-19

District	BCG	OPV0	HEP0	Penta1	OPV1	IPV1	Rota1	Penta2	OPV2	Rota2	Penta3	OPV3	IPV2	Rota3	Measles
TVM	99	99	97	98	98	92	0	98	97	0	98	97	92	0	96
KLM	99	98	91	95	94	87	1	95	94	1	94	94	87	1	91
PTA	100	99	97	99	99	90	1	99	99	1	99	99	90	1	99
ALP	100	99	89	98	98	69	1	97	97	1	97	97	71	1	96
KTM	99	99	93	98	98	84	1	98	97	1	97	97	84	1	96
IDK	99	99	93	98	98	95	0	98	98	0	98	98	96	0	98
EKM	99	99	81	98	97	80	0	97	97	0	97	97	82	0	95
TSR	99	97	63	97	96	86	0	96	96	0	96	95	86	0	94
PKD	99	97	76	95	95	68	0	94	93	0	93	92	69	1	91
MLP	97	88	36	90	90	66	0	87	86	0	84	84	64	0	85
KKD	99	97	69	94	94	70	0	93	92	0	91	91	70	1	89
WND	99	98	95	98	98	77	0	97	97	0	96	96	78	0	97
KNR	99	98	61	96	96	72	1	94	94	1	93	93	74	1	93
KSD	99	92	38	95	94	72	0	94	93	0	93	92	73	0	89
KERALA	99	96	69	95	95	76	0	94	94	0	93	93	76	0	91

3.4.4.1 INTENSIFIED PULSE POLIO IMMUNIZATION PROGRAM (IPPI) JANUARY 2020

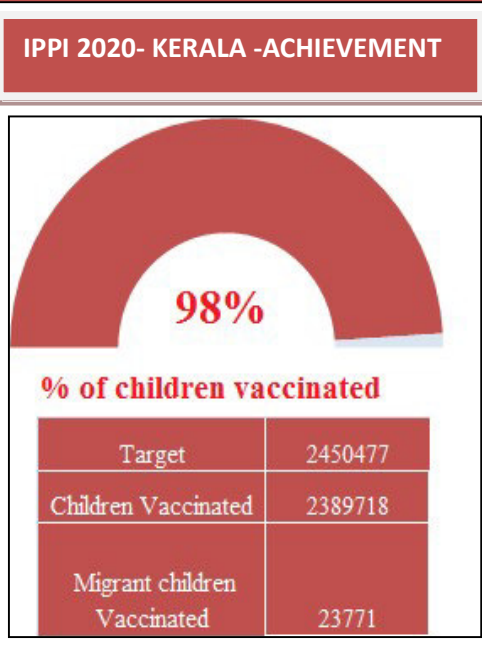


Chart 3.4.4.1.1 Intensified Pulse Polio Immunization Program 2020-District wise Achievement (%)

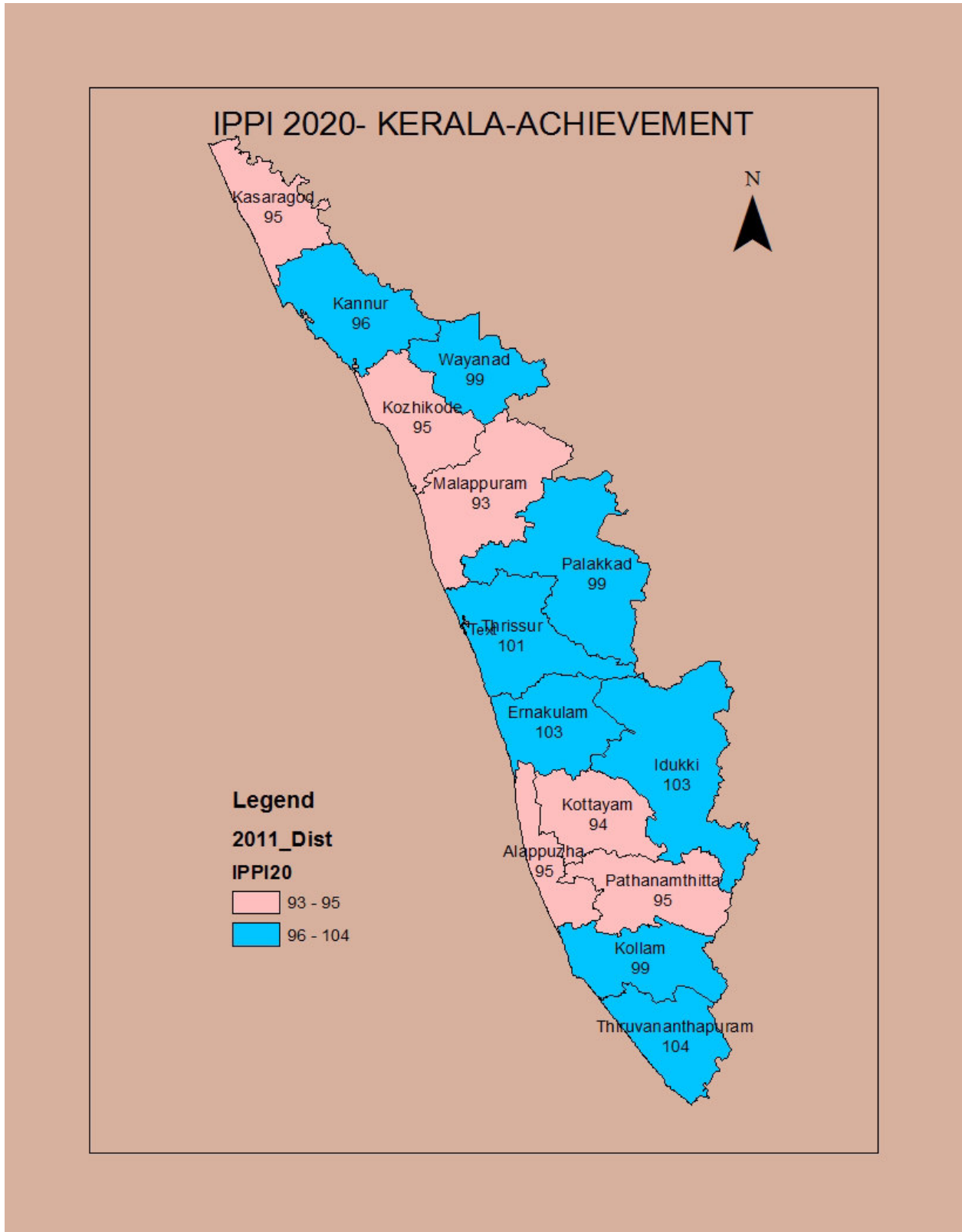


Table 3.4.4.1.1 Intensified Pulse Polio Immunization Program 2020-District wise Achievement (%)

SI No	District	TARGET	Total Children Vaccinated	PERCENTAGE OF ACHIEVEMENT	No. of migrant children immunized	Total OPV vials used
1	TVM	213752	222576	104	2147	13419
2	KLM	172242	170611	99	883	10105
3	PTA	71622	68054	95	572	4128
4	ALP	136453	129761	95	924	7480
5	KTM	117539	109952	94	1021	6676
6	IDK	68043	70024	103	1671	4056
7	EKM	203803	209347	103	6356	12170
8	TSR	206885	209301	101	2168	12294
9	PKD	214942	212004	99	1426	12920
10	MLP	450415	416691	93	2186	24513
11	KKD	228768	218036	95	1317	13496
12	WND	63048	62616	99	415	3900
13	KNR	186795	180027	96	1612	10346
14	KSD	116170	110718	95	1073	7059
15	KERALA	2450477	2389718	98	23771	142562

3.4.4.2 INTENSIFIED MISSION INDRADHANUSH 2.0

About the Programme

The Government of India is committed to improve immunization coverage and achieve full immunization coverage of 90 percent. Launch of massive routine immunization campaigns, such as Mission Indradhanush (MI) and Intensified Mission Indradhanush (IMI), in part, reflects government's efforts under Universal Immunization Program to reduce child mortality and morbidity. To boost the RI coverage in the country, Government is now planning to introduce Intensified Mission Indradhanush 2.0 to ensure reaching the unreached with all available vaccines and accelerate the coverage of children and pregnant women in the identified districts and blocks from December 2019-March 2020. An IMI 2.0 Portal has been designed to manage the data reporting and analysis, and to update the activities of the ministries/departments and will capture pre-campaign activities, during activity achievements, and post campaign indicators with indicators on immunization coverage and of the line ministries. In Kerala, the programme conducted in Kozhikkode and Wayanad districts.

Intensified Mission Indradhanush 2.0



Wayand district Collector sets example by vaccinating her own Child

Table 3.4.4.2.1 IMI 2.0 Achievement 2019-20 (2019 December – 2020March)

District	Session		Children Vaccination			Pregnant Women Vaccination		
	Planned	Held	No. of target children for the round (as per the due lists based on head count)	No. of Children vaccinated	% Children Vaccinated	No. of target Pregnant Women for the round (as per the due lists based on head count)	No of Pregnant Women Vaccinated	% Pregnant Women Vaccinated
Kozhikode	1442	1399	38882	24310	63	3356	2228	66
Wayanad	1129	1168	8579	6017	70	2550	1833	72
Total	2571	2567	47461	30327	64	5906	4061	69

3.5 MORTALITY RATES

3.5.1 Maternal Mortality Ratio(MMR)

Chart 4.5.1 District wise Maternal Mortality Ratio (MMR) 2019-20

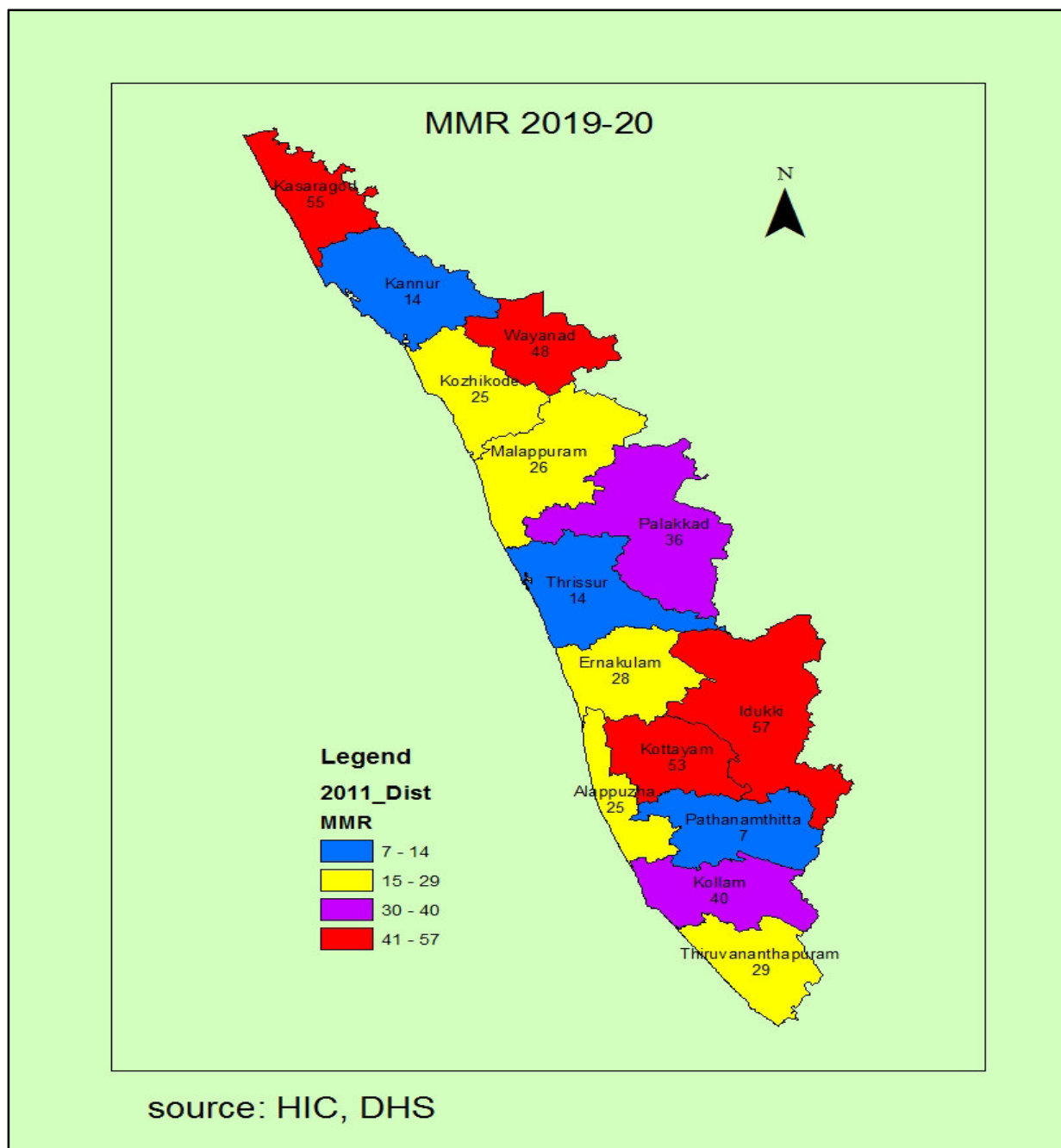


Table 3.5.1 District wise Maternal Mortality Ratio (MMR) 2019-20

Sl.No	DISTRICT	LIVE BIRTH	MATERNAL DEATH	MMR(PER LAKH)
1	TVM	41388	12	29
2	KLM	25161	10	40
3	PTA	14529	1	7
4	ALP	15881	4	25
5	KTM	22663	12	53
6	IDK	10609	6	57
7	EKM	42207	12	28
8	TSR	42130	6	14
9	PKD	33160	12	36
10	MLP	90044	23	26
11	KKD	52381	13	25
12	WND	14651	7	48
13	KNR	41575	6	14
14	KSD	18151	10	55
15	KERALA	464530	134	29

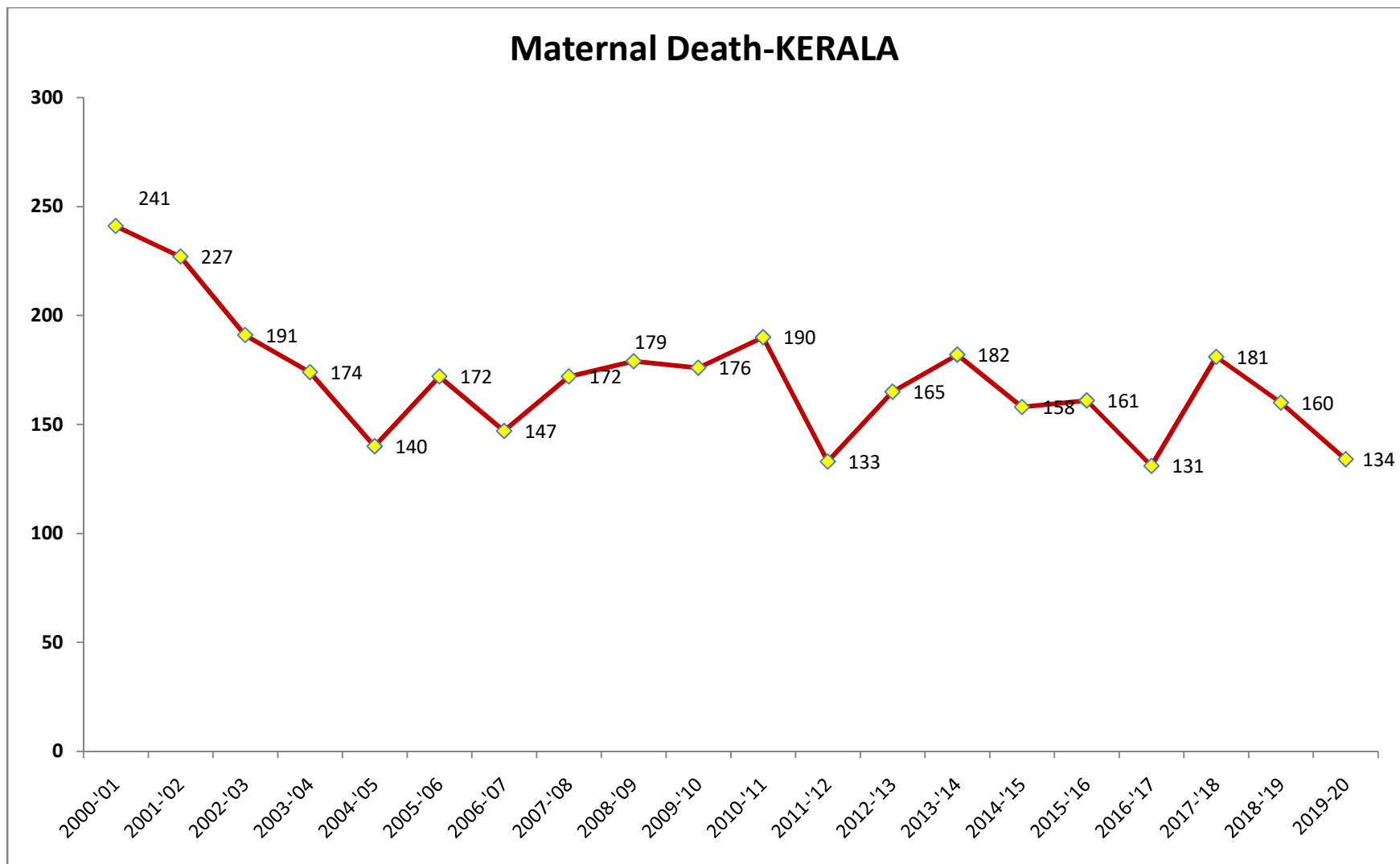
Table 3.5.2 Year wise and district wise Maternal Mortality Ratio (MMR)

SL NO	DISTRICT	2015-16	2016-17	2017-18	2018-19	2019-20
1	TVM	48	33	38	16	29
2	KLM	19	19	51	34	40
3	PTA	50	14	7	47	7
4	ALP	14	46	21	46	25
5	KTM	58	36	30	17	53
6	IDK	38	47	55	26	57
7	EKM	37	17	25	12	28
8	TSR	25	24	28	34	14
9	PKD	41	51	62	56	36
10	MLP	48	25	33	42	26
11	KKD	14	14	57	37	25
12	WND	30	40	27	61	48
13	KNR	32	34	26	18	14
14	KSD	30	42	39	30	55
15	KERALA	34	29	37	33	29

Table 3.5.3 District wise and Year wise Maternal deaths in Kerala 2000-01 to 2019-20

Sl. No.	Districts	2000-'01	2001-'02	2002-'03	2003-'04	2004-'05	2005-'06	2006-'07	2007-'08	2008-'09	2009-'10	2010-'11	2011-'12	2012-'13	2013-'14	2014-'15	2015-'16	2016-'17	2017-'18	2018-'19	2019-20
1	TVM	32	28	19	25	6	11	20	7	11	15	19	7	18	16	10	13	13	20	7	12
2	KLM	13	18	16	21	11	15	9	6	13	16	23	22	6	14	16	11	5	14	9	10
3	PTA	10	9	1	2	6	5	2	5	4	5	5	9	4	6	4	2	2	1	7	1
4	ALP	6	5	6	8	5	5	7	6	7	7	3	7	6	9	8	9	8	4	8	4
5	KTM	9	17	5	8	5	11	6	6	10	11	8	6	11	7	6	9	8	7	4	12
6	IDK	5	1	8	7	7	11	3	10	3	7	10	3	5	7	0	6	6	6	3	6
7	EKM	17	12	6	12	7	12	8	9	15	21	22	15	7	17	8	7	6	12	5	12
8	TSR	10	8	16	8	15	8	6	11	17	16	14	10	13	15	12	14	10	12	15	6
9	PKD	25	35	20	19	20	22	24	31	21	16	23	10	14	14	18	18	18	23	20	12
10	MLP	34	25	32	16	22	30	30	37	35	31	23	16	40	27	31	36	22	30	39	23
11	KKD	34	25	28	26	13	13	13	29	15	4	16	13	9	13	17	14	7	30	20	13
12	WND	16	13	17	6	8	9	7	3	8	7	6	2	13	8	11	4	4	4	9	7
13	KNR	17	19	8	8	9	12	7	7	9	12	12	7	9	15	11	6	14	10	8	6
14	KSD	13	12	9	8	6	8	5	5	11	8	6	6	10	14	6	12	8	8	6	10
15	KER	241	227	191	174	140	172	147	172	179	176	190	133	165	182	158	161	131	181	160	134

Chart 3.5.3 Year wise Maternal Deaths in Kerala



3.5.2 NEO-NATAL MORTALITY RATE(NMR)

Chart 4.5.2.1 Neo-Natal Mortality Rate (NMR) 2019-20

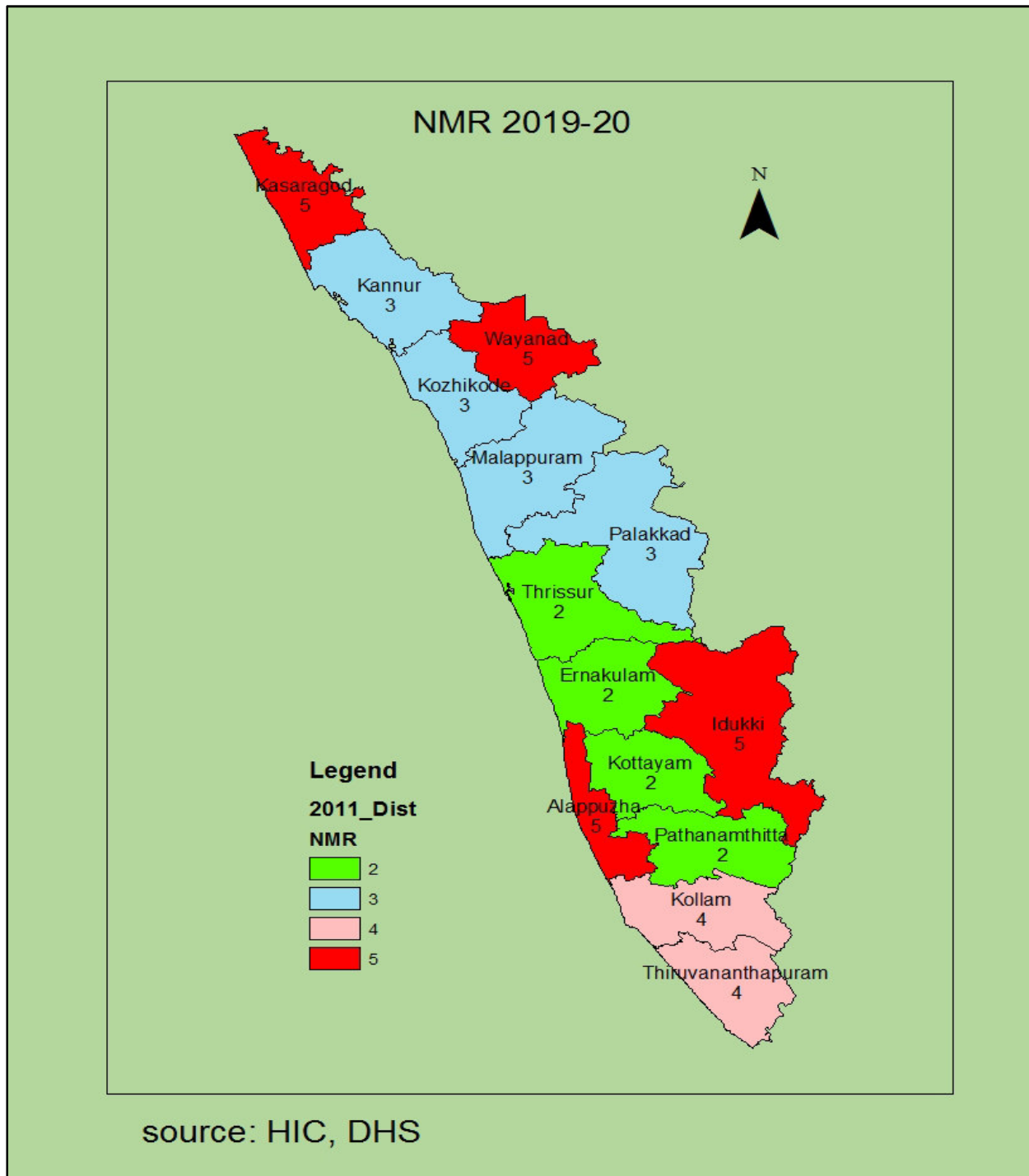


Table 3.5.2.1 District wise Neo Natal Mortality Rate (NMR) 2019-20

Sl.No	DISTRICT	LIVE BIRTH	NEO NATAL DEATH	NMR
1	TVM	41388	169	4
2	KLM	25161	107	4
3	PTA	14529	34	2
4	ALP	15881	81	5
5	KTM	22663	53	2
6	IDK	10609	49	5
7	EKM	42207	88	2
8	TSR	42130	102	2
9	PKD	33160	110	3
10	MLP	90044	287	3
11	KKD	52381	147	3
12	WND	14651	71	5
13	KNR	41575	111	3
14	KSD	18151	93	5
15	KERALA	464530	1502	3

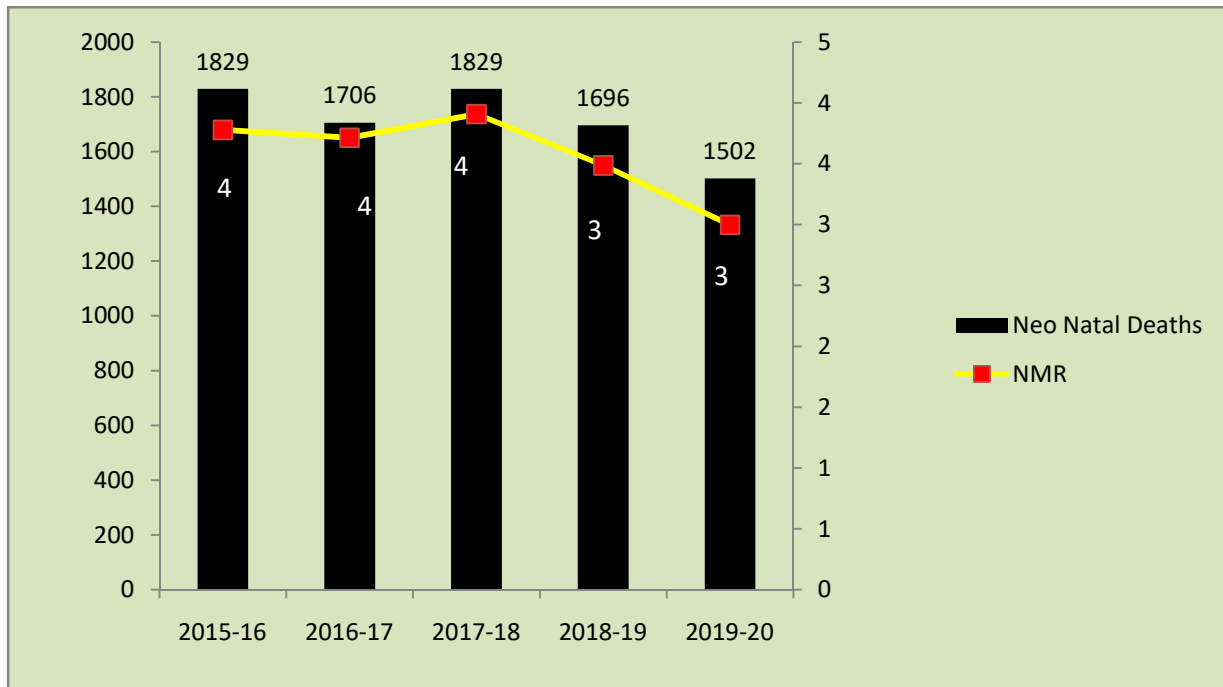
Table 3.5.2.2 District wise and Year wise Neo Natal Mortality Rate

SL. NO	DISTRICT	2015-16	2016-17	2017-18	2018-19	2019-20
1	TVM	4	4	5	3	4
2	KLM	4	4	5	5	4
3	PTA	3	2	3	3	2
4	ALP	5	5	4	4	5
5	KTM	3	4	3	3	2
6	IDK	5	5	6	5	5
7	EKM	2	2	2	2	2
8	TSR	3	3	3	3	2
9	PKD	5	4	4	5	3
10	MLP	4	4	4	4	3
11	KKD	3	3	8	3	3
12	WND	7	5	5	5	5
13	KNR	3	3	4	3	3
14	KSD	5	7	5	4	5
15	KERALA	4	4	4	3	3

Table 3.5.2.2 District wise and Year wise Neo Natal Deaths in Kerala

SL. NO	DISTRICT	2015-16	2016-17	2017-18	2018-19	2019-20
1	TVM	160	157	222	149	169
2	KLM	119	104	124	122	107
3	PTA	51	33	51	39	34
4	ALP	94	90	69	65	81
5	KTM	68	82	80	64	53
6	IDK	62	59	70	59	49
7	EKM	83	81	72	89	88
8	TSR	143	122	121	129	102
9	PKD	179	134	149	160	110
10	MLP	380	364	365	373	287
11	KKD	182	175	181	181	147
12	WND	93	69	77	68	71
13	KNR	118	111	140	112	111
14	KSD	97	125	108	86	93
15	KERALA	1829	1706	1829	1696	1502

Chart 3.5.2.2 Year wise comparison of Neo natal deaths and NMR in Kerala



3.5.3 INFANT MORTALITY RATE (IMR)

Chart 3.5.3.1 District Wise Infant Mortality Rate (IMR) 2019-20

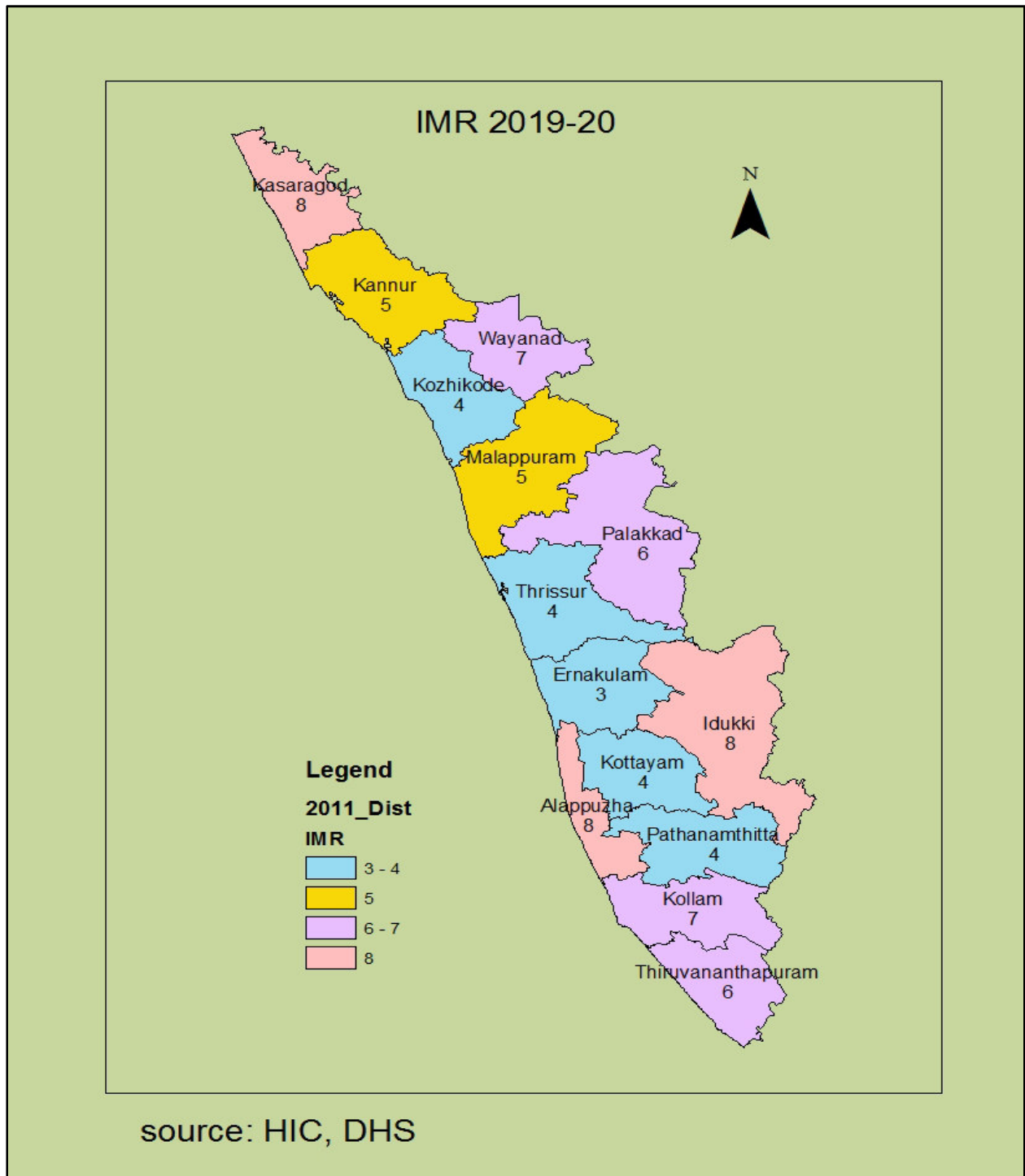


Table 3.5.3.1 District Wise Infant Mortality Rate (IMR) 2019-20

Sl.No	DISTRICT	LIVE BIRTH	INFANT DEATH	IMR
1	TVM	41388	242	6
2	KLM	25161	172	7
3	PTA	14529	59	4
4	ALP	15881	122	8
5	KTM	22663	89	4
6	IDK	10609	81	8
7	EKM	42207	139	3
8	TSR	42130	164	4
9	PKD	33160	203	6
10	MLP	90044	470	5
11	KKD	52381	215	4
12	WND	14651	100	7
13	KNR	41575	195	5
14	KSD	18151	150	9
15	KERALA	464530	2401	5

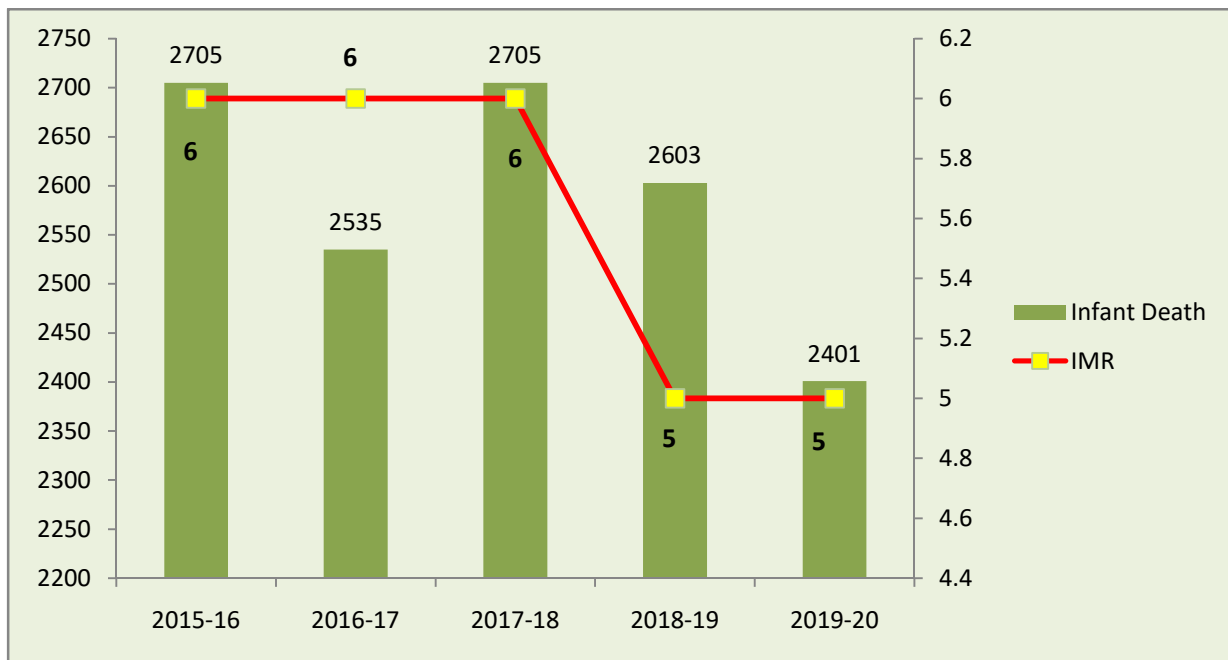
Table 3.5.3.2 wise and Year wise Infant Mortality Rate in Kerala

SL. NO	DISTRICT	2015-16	2016-17	2017-18	2018-19	2019-20
1	TVM	5	6	7	5	6
2	KLM	7	6	7	7	7
3	PTA	5	3	5	4	4
4	ALP	7	7	6	6	8
5	KTM	4	5	4	4	4
6	IDK	9	8	9	9	8
7	EKM	3	3	3	3	3
8	TSR	5	5	4	5	4
9	PKD	7	6	6	7	6
10	MLP	6	6	6	6	5
11	KKD	5	4	4	5	4
12	WND	10	8	9	7	7
13	KNR	4	4	6	4	5
14	KSD	8	10	9	7	9
15	KERALA	6	6	6	5	5

Table 3.5.3.3 wise and Year wise Infant Deaths in Kerala

SL. NO	DISTRICT	2015-16	2016-17	2017-18	2018-19	2019-20
1	TVM	228	235	281	225	242
2	KLM	197	167	192	189	172
3	PTA	69	46	72	63	59
4	ALP	130	118	100	101	122
5	KTM	105	113	101	96	89
6	IDK	103	86	106	100	81
7	EKM	116	122	118	133	139
8	TSR	201	194	176	203	164
9	PKD	262	204	213	236	203
10	MLP	548	546	560	541	470
11	KKD	261	220	101	274	215
12	WND	137	110	126	110	100
13	KNR	187	181	211	183	195
14	KSD	161	193	186	149	150
15	KERALA	2705	2535	2705	2603	2401

Chart 3.5.3.2 Year wise comparison of Infants deaths and IMR in Kerala



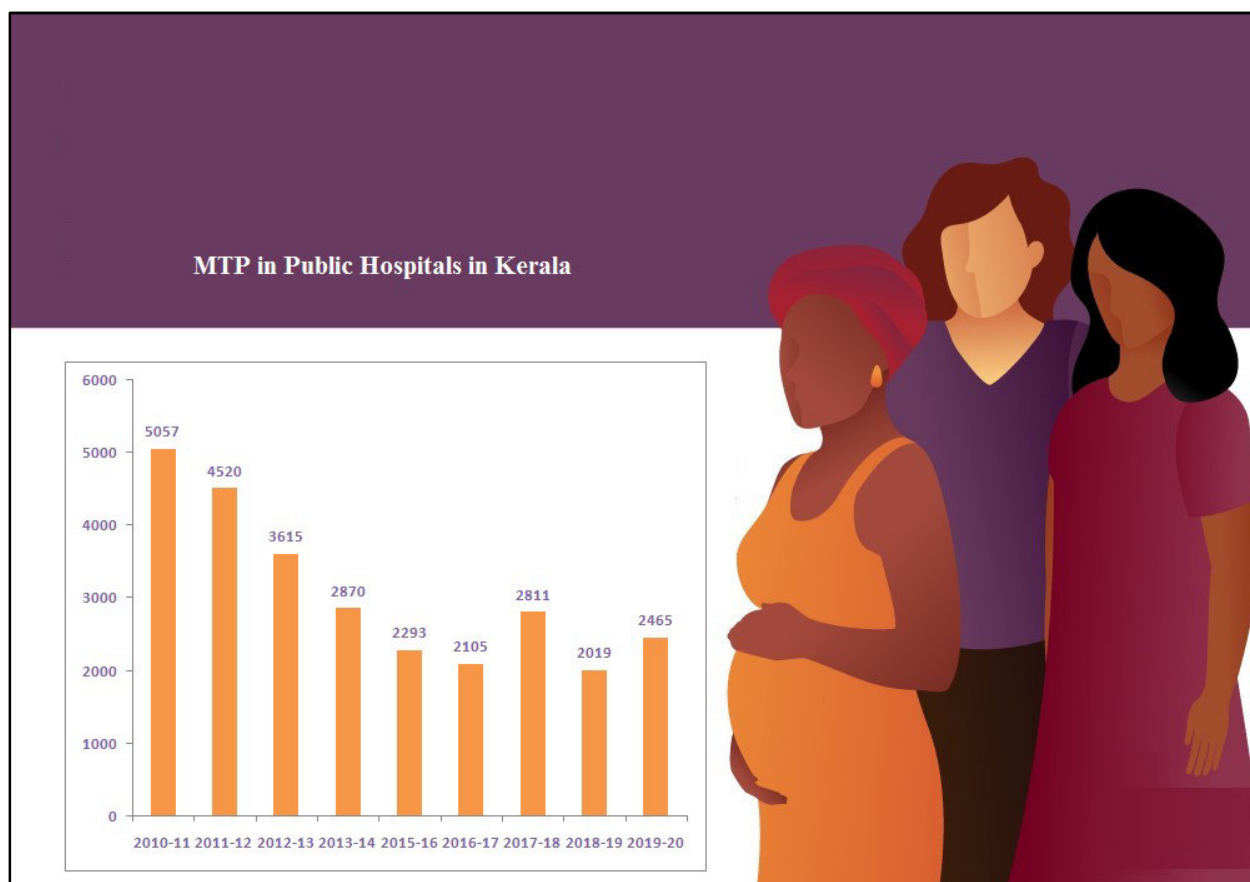
3.6 MEDICAL TERMINATION OF PREGNANCY (MTP)

Table 3.6.1 Year wise Number of Medical Termination of Pregnancy (MTP) in Kerala

SI No	Year	Number of MTP		
		Government	Private	Total
1	2017-18	2811	6647	9458
2	2018-19	2019	8491	10510
3	2019-20	2465	8613	11078

Source : HMIS Portal

chart 3.6.1 Year wise medical Termination of Pregnancy in the Public Hospitals in Kerala



3.7- REVISED NATIONAL TUBERCULOSIS CONTROL PROGRAMME

Table- 3.7.1 Performance of RNTCP - Kerala State - 1997 to 2020

Year	Total Cases	Total Annualized case detection rate/lakh population	Smear Positive Cases	Annualized New Smear Positive Case notification rate	Cure Rate %
1997	499	41.6	313	26	85
1998	2854	55	1224	24	83
1999	9247	56	4070	25	86
2000	15885	73.5	6846	31.7	86
2001	23136	72	9698	30.8	89
2002	23916	75.5	10040	31	88
2003	24875	77.7	10861	34	89
2004	25428	80	11095	34	88
2005	24979	76	11092	34	85
2006	25246	77	10705	33	82
2007	24397	81	10915	33	81
2008	24935	73	11045	32	82
2009	27118	78	11626	33	83
2010	27019	78	11592	34	81
2011	26121	75	14662	31	82
2012	25917	77	15182	33	82
2013	24203	72	11036	33	81
2014	23497	68	10917	32	82
2015	22858	70	10589	31	84
2016	21405	63	9951	29	82
2017	19544	57	9910	29	84
2018	24700	72	11786	35	86
2019	25106	74	10619	54	90
2020	15779 (As on 13th August 2020)	46	4515 (As on 30th June 2020)	13	84

3.8- SCHOOL OF NURSING

Table 3.8.1 District wise details of School of Nursing (GNM) 2019 & 2020

Slno.	District	Govt.		No. of seats		Private		No. of seats	
		2019	2020	2019	2020	2019	2020	2019	2020
1	TVM	2	1	58	28	10	10	285	285
2	KLM	2	2	45	45	12	12	400	400
3	PTA	1	1	20	20	2	2	50	50
4	ALP	1	1	23	23	8	8	245	245
5	KTM	2	1	50	20	9	9	255	255
6	IDK	1	1	20	20	7	7	190	200
7	EKM	1	1	32	30	14	14	490	410
8	TSR	1	1	28	28	17	17	475	475
9	PKD	1	1	25	25	4	4	95	95
10	MLP	1	1	26	26	6	6	185	185
11	KKD	2	1	80	50	9	9	320	320
12	WND	1	1	20	20	3	3	90	90
13	KNR	1	1	30	30	8	8	260	260
14	KSD	1	1	20	20	3	3	75	75
	Total	18	15	477	385	112	112	3415	3345

District wise details of ANM training centres 2019 & 2020

Slno.	District	Govt.		No. of seats		Private		No. of seats	
		2019	2020	2019	2020	2019	2020	2019	2020
1	TVM		1		30		1		35
2	KLM						3		65
3	ALP						2		70
4	KTM		1		25		1		20
5	PKD		1		50				
6	KSD		1		25		1		50
	Total	0	4	0	130	0	8	0	240

Govt Health Supervisory Training Centres

1	TVM		1		50				
2	KKD		1		50				

Table 3.8.2 District wise details of College of Nursing 2020

Sl No.	District	Govt.	No. of seats			Private	No. of seats			
			No	B Sc Nursing	Post B Sc Nursing		M Sc Nursing	No	B Sc Nursing	Post B Sc Nursing
1	TVM	1	75	30	28	13	730	110	112	
2	KLM					11	595	50	107	
3	PTA					11	510	45	56	
4	ALP	1	60		20	4	210	50	25	
5	KTM	1	60		22	10	460	45	27	
6	IDK					2	110	30	16	
7	EKM	1	60	45		16	910	140	95	
8	TSR	1	60		20	8	420	60	66	
9	PKD					4	200			
10	MLP					6	350	60	56	
11	KKD	1	60		30	9	490	30	20	
12	WND					2	100			
13	KNR	1	60		10	9	460		37	
14	KSD					2	90			
	Total	7	435	75	130	107	5635	620	617	
	Nursing college under MG university					Nursing college under SIMET				
1	TVM					1	60			
2	PTA	1	40							
3	KTM	3	150			1	60	30		
4	IDK	1	60							
5	EKM	1	40			1	60	30		
6	PKD									
7	KNR	0								
8	KSD					1	60	40		
	Total	6	290			3	180	100		

3.9- Expenditure on Plan Schemes ((Rs. In Lakhs)

Table 3.9.1 Expenditure on Plan Schemes (2210 plan) From 2005-06 To 2018-19 (Rs. In Lakhs)

2210- Plan Schemes									
Year	State Plan			100% CSS			50% CSS		
	Allocation	Expenditure	% of Expenditure	Allocation	Expenditure	% of Expenditure	Allocation	Expenditure	% of Expenditure
2005-06	4092	2657.49	64.94%	325	155.54	47.86	190	113.21	59.58
2006-07	2948.5	1845.37	62.59%	216	146	67.59	420	136.89	32.59
2007-08	4844	2974.53	61.41%	216	181.25	83.91	320	101.67	31.77
2008-09	7413.53	7095.43	95.71%	216	263.04	121.78	320	187.29	58.53
2009-10	3052.93	2936.67	96.19%	315	338.78	107.5	320	215.47	67.33
2010-11	3089	2855.52	92.44%	489.64	417.03	97.42	680	410.36	60.35
2011-12	12271.94	11940.61	97.30%	568.59	648.35	114.03	555	406.65	73.27
2012-13	20694	20109.42	97.18%	740.25	779.57	105.31	200	198.74	99.37
2013-14	18627.20	18012.87	96.70%	895.41	788.14	88.02%			
2014-15	16877.00	14547.78	86.20%						
2015-16	18446.54	18217.98	98.76%						
2016-17	35656.00	34186.43	95.88%						
2017-18	56779.00	53344.00	93.95%						
2018-19	62234	50130.36	80.55%						
2019-20	62109	61710.66	99.36%						

Table 3.9.2 Expenditure on Plan Schemes (2211 plan) From 2005-06 To 2018-19 (Rs. In Lakhs)

2211 – Plan Schemes			
100% CSS			
Year	Allocation	Expenditure	% of Expenditure
2005-06	1826.55	1393.34	76.28
2006-07	4902.29	3728.95	76.07
2007-08	7435.8	4169.13	56.07
2008-09	5627	4041	71.81
2009-10	15035.4	11864.71	78.92
2010-11	20429.08	14486.94	70.91
2011-12	1693600	3322672.65	196.19
2012-13	2917100	2487444.488	85.27
2013-14	3703400	2577264579	69.59
2014-15	4481400	1877823657	41.90
2015-16	4481400	2720259496	60.70
2016-17	3886800	3741693845	96.27
2017-18	3673638	2663603485	72.51
2018-19	36238	42666.54	117.73
2019-20	33750.03	41321.3	122.43

Table 3.9.3 PLAN EXPENDITURE 2019-20**DIRECTORATE OF HEALTH SERVICES**

Sl No	Scheme Name	Head of Account	Budget Outlay (Rs. in Lakh)	Expenditure (Rs. in Lakh)	%
1	Blood Banks(DHS)	2210-01-110-44	230	80.38	34.95
2	Health Transport	2210-01-200-91	43	0	0
3	Limb Fitting Centres	2210-01-110-48	300	119.36	39.79
4	Development of Mental Health Care	2210-01-110-85	275	136.57	49.66
5	Development of Mental Health Care	2210-01-110-84	150	75.47	50.32
6	Development of Mental Health Care	2210-01-110-83	190	126.91	66.8
7	Physical Medicine and Rehabilitation Units	2210-01-110-74	300	300	100
8	Pain, Palliative and Elderly Health Care Centers	2210-01-110-52	150	123.23	82.16
9	Society for Rehabilitation of Cognitive and Communicative disorders	2210-05-105-36	700	112	16
10	State Institute Of Health and Family Welfare for Training to Health Personnel	2210-06-3-90	450	184.56	41.01
11	Completion of ongoing construction works(Major/Minor) in GH, W and C and Other hospitals	4210-01-110-75	0	3536.88	0
12	Completion of ongoing construction works(Major/Minor) in GH, W and C and Other hospitals	4210-01-110-83	0	45.09	0
13	Completion of ongoing construction works(Major/Minor) in GH, W and C and Other hospitals	4210-01-110-93	0	722.31	0
14	Completion of ongoing construction works(Major/Minor) in GH, W and C and Other hospitals	4210-03-105-99	0	56.88	0
15	Completion of ongoing construction works (Major/Minor) in GH, W and C and Other hospitals	4210-02-110-96	0	184.2	0
16	Diplomate of the National Board (DIPNB)	2210-01-110-47	300	138.73	46.24

17	Public Health Laboratory	2210-06-107-99	350	113.57	32.45
18	Control of Communicable diseases	2210-06-101-49	1225	749.22	61.16
19	Society for the medical assistance to the poor-XVIII-	2210-06-101-53	550	349.77	63.59
20	District Mental Health Programme	2210-01-110-40	900	749.43	83.27
21	Prevention of Non Communicable Diseases	2210-06-101-45	1400	923.34	65.95
22	Medical Care for victims of violence / social abuses	2210-01-110-37	45	44.91	99.79
23	CONSTRUCTION WORKS UNDER DHS	4210-01-110-74	4500	288.55	6.41
24	Cancer Care Programme-XVIII-	2210-06-101-41	260	168.76	64.91
25	Setting up of de-addiction centres in district hospitals.	2210-01-110-26	150	23.54	15.69
26	Strengthening of institutions under Directorate of Health Services.	2210-01-110-35	5500	1797.78	32.69
27	Strengthening of Medical Record Libraries	2210-06-1-98	150	74.68	49.79
28	New born screening programme	2210-06-107-92	400	400	100
29	Women and Children hospitals	4210-01-110-66	320	0.99	0.31
30	Women & Children hospitals	2210-01-110-30	1500	1499.96	100
31	Kerala Emergency Medical Service(108 Ambulance)	2210-01-110-24	690	0	0
32	Setting up of Maternity Units in selected THQH	2210-01-110-25	700	700	100
33	Setting up of Maternity Units in selected THQH	4210-01-110-59	100	0	0
34	Nursing Schools	2210-05-105-89	210	168.45	80.22
35	Strengthening of Dental units in Health services Department(Improvement of Dental clinics)	2210-01-110-70	350	289.42	82.69
36	Strengthening of Dental units in Health services Department(Improvement of Dental clinics)	4210-01-110-58	200	200	100
37	COMPREHENSIVE MENTAL HEALTH PROGRAMME	2210-01-110-68	950	473.18	49.81
38	AROGYA KIRANAM-RASHTRIYA BAL SWASTHYA KARYAKRAM	2210-06-101-31	2000	500	25

39	Establishment of CATH lab and ICU in hospitals	2210-01-110-15	300	299.98	99.99
40	Setting up of Dialysis Units in Major Hospitals	2210-01-110-14	500	499.97	99.99
41	Strengthening of Emergency Medical Care-XVIII-	2210-01-110-13	1300	1278.39	98.34
42	Construction Works under DHS (ACA)	4210-01-110-65	0	401.18	0
43	Modernization of Drug Store under DHS	2210-01-110-77	681	313.67	46.06
44	National Health Mission (CSS - 60:40)	2210-06-101-19	21500	39259.7	182.6
45	E-GOVERNANCE IN HEALTH SERVICES(DME) - MATCHING GRANT	2210-01-1-91	2000	46	2.3
46	DEVELOPING THE PRIMARY HEALTH CENTRE AS FAMILY HEALTH CENTRE	2210-03-103-90	2855	0	0
47	SETTING UP OF LABORATORIES IN PRIMARY HEALTH CENTRE	2210-03-103-89	750	750	100
48	SETTING UP OF LABORATORIES IN PRIMARY HEALTH CENTRE	4210-02-103-92	50	0	0
49	DEVELOPING SUPER SPECIALITY FACILITIES IN SELECTED DISTRICT/GENERAL HOSPITALS	2210-01-110-11	2000	1934.89	96.74
50	DEVELOPING SUPER SPECIALITY FACILITIES IN SELECTED DISTRICT/GENERAL HOSPITALS	4210-01-110-60	200	0	0
51	CREATION OF PATIENT FRIENDLY HOSPITAL INITIATIVE (DHS)	2210-01-110-9	3400	1044.42	30.72
52	STRENGTHENING OF NURSING SERVICE	2210-01-1-90	160	98.33	61.46
53	Solid and liquid waste management in all Government Hospitals	2210-01-110-8	550	255.5	46.45
54	Developing the facilities of Hospitals and Health Care Institutions in Tribal, Coastal and Remote areas.	2210-03-110-93	200	0	0
55	State Nutritional and Diet Related Intervention Programmes	2210-06-200-97	125	70.51	56.41
TOTAL			62109	61710.66	99.36

Table -3.9.4 2211 Family Welfare Expenditure statement Budget estimate 100% CSS Plan For 2018-19 and 2019-20

Sl. No.	Name of Scheme	2018-19 *			2019-20 #		
		Allocation (Rs. In Thousands)	Total Expenditure (Rs.)	Percentage of Expenditure	Allocation (Rs. In Lakhs)	Total Expenditure (Lakhs)	Percentage of Expenditure
1	2211-00-001-96 State level Organization	815	613.92	75.00%	3500	641.21	19.00%
2	2211-00-001-95 City and District Family Welfare Bureaus	2185	2089.44	97.00%	0	2057.23	
3	2211-00-109-98 Reproductive and Child Health Programme	215	127.98	59	0	145.29	
4	2211-00-003-96 Regional Family Welfare Training Centres	405	274.46	67.00%	425	246.44	58.00%
5	2211-00-003-95 Training to Health Visitors and Dias	270	260.58	97.00%	475	212.42	45.00%
6	2211-00-106-99 Mass Education	35	16.87	48.00%	0		
7	2211-00-104-95 Maintenance and Supply of Vehicles to Primary Health Centres	75	0.34	5.00%	0		
8	2211-00-104-94 Maintenance and Supply of Vehicles to District Family Welfare Bureaus	40	13.48	34.00%	0		
9	2211-00-104-93 Maintenance and Supply of Vehicles to Regional Family Welfare Centres	50	1.27	2.50%	0		

10	2211-00-104-92 Health Transport Organisation	185	46.13	25.00%	0	0	0
11	2211-00-800-93 Grant-in-Aid	243	0	0.00%	50.03	0	0
12	2211-00-101-95 Rural Family Welfare Planning Centre (Sub Centres)	30000	37389.98	125.00%	29300	36401.46	125.00%
13	2211-00-101-94 Expansion of ICDS Programme	1510	1465.2	97.00%	0	1464.54	0
14	2211-00-200-91 Maintenance of Beds & Sterilization Unit	210	366.89	175.00%	0	152.75	0
15	TOTAL	36238	42666.54	117.73%	33750.03	41321.34	122.43%
NON PLAN							
16	2211-00-101-96 Rural Family Welfare Centre and PPC (NPVoted)	11881	9902.56	80.00%	9831.86	9419.07	96.00%
17	2211-00-200-96 PPC MC hospital DH ,GH. (NP Voted)	3653	936	26.00%	1027.23	961.21	94.00%
18	2211-00-200-94 PPC Sub/Divisions/Taluk Hospitals. (NP Voted)	1024	3422	334.00%	3717.31	3494.85	94.00%
20	2211 Compensation/Damages to victims. (NPVoted)	0	0	0	1	0	0
21	2211-00-800-95 Compensation/Damages to victims. (NP Charged)	1	0.01	1.00%	100	0	0
	TOTAL	16559	14260.57	83.80%	14677.4	13875.13	94.53
	*Reconciled, # Unreconciled						



4. POPULATION

TABLE 4.1 DISTRICT WISE POPULATION OF SC,ST & LITERATES, 2011 CENSUS

NAME	Scheduled Castes Population			Scheduled Tribes Population			Literates Population		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Kerala	3039573	1477808	1561765	484839	238203	246636	28135824	13704903	14430921
TVM	372977	178589	194388	26759	12624	14135	2785408	1354857	1430551
KLM	328263	157801	170462	10761	5195	5566	2240273	1074345	1165928
PTA	164465	78942	85523	8108	3947	4161	1062553	499181	563372
ALP	201211	97183	104028	6574	3175	3399	1852797	890552	962245
KTM	153909	75503	78406	21972	10974	10998	1749798	861592	888206
IDK	145486	72399	73087	55815	27995	27820	923010	471881	451129
EKM	268411	131573	136838	16559	8349	8210	2855676	1425723	1429953
TSR	324350	156480	167870	9430	4362	5068	2678548	1282261	1396287
PKD	403833	197451	206382	48972	24314	24658	2239492	1122600	1116892
MLP	308266	151557	156709	22990	11272	11718	3311315	1597404	1713911
KKD	199191	97279	101912	15228	7429	7799	2615443	1266939	1348504
WYD	32578	16406	16172	151443	74476	76967	645585	328136	317449
KNR	83350	40260	43090	41371	20141	21230	2138434	1012956	1125478
KSD	53283	26385	26898	48857	23950	24907	1037492	516476	521016

TABLE 4.2 Sex Ratio for State and Districts : 1901-2011

State/ District	SEX RATIO (Number of Females per 1000 Males)											
	1901	1911	1921	1931	1941	1951	1961	1971	1981	1991	2001	2011
Kerala	1004	1008	1011	1022	1027	1028	1022	1016	1032	1036	1058	1084
TVM	996	990	981	1003	1017	1010	1005	1008	1030	1036	1060	1088
KLM	987	988	989	1006	1013	997	996	1000	1022	1035	1069	1113
PTA	986	987	949	975	986	996	1011	1019	1056	1062	1094	1129
ALP	986	987	986	997	1003	1022	1026	1025	1043	1051	1079	1100
KTM	965	969	947	966	966	987	988	991	1001	1003	1025	1040
IDK	839	842	850	834	875	909	914	937	963	975	993	1006
EKM	985	990	969	994	994	1008	999	988	997	1000	1019	1028
TSR	1004	1009	1051	1075	1082	1105	1093	1081	1100	1085	1092	1109
PKD	1042	1057	1069	1079	1079	1085	1077	1056	1056	1061	1066	1067
MLP	1017	1020	1037	1059	1062	1055	1057	1041	1052	1053	1066	1096
KKD	1009	1022	1038	1032	1044	1019	1007	1004	1020	1027	1057	1097
WYD	805	815	786	804	835	838	903	922	949	966	995	1035
KNR	1060	1079	1121	1106	1110	1074	1048	1033	1040	1049	1090	1133
KSD	1060	1053	1050	1040	1039	1046	1026	998	1020	1026	1047	1079

TABLE 4.3 PROJECTED POPULATION OF KERALA

State/ District	Total Population (Projected based on the growth rate of the population from 2001 to 2011)										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Kerala	33406061	33569592	33734454	33900664	34068228	34237161	34407479	34579194	34752316	34926862	35102842
TVM	3301427	3308210	3315007	3321818	3328643	3335482	3342335	3349203	3356084	3362979	3369889
KLM	2635375	2640445	2645525	2650614	2655713	2660822	2665941	2671070	2676209	2681357	2686516
PTA	1197412	1193812	1190223	1186644	1183076	1179519	1175973	1172437	1168912	1165398	1161894
ALP	2127789	2129661	2131534	2133410	2135287	2137165	2139045	2140927	2142811	2144696	2146581
KTM	1974551	1976654	1978759	1980866	1982976	1985087	1987201	1989317	1991436	1993557	1995680
IDK	1108974	1106969	1104968	1102971	1100977	1098987	1097000	1095017	1093038	1091062	1089090
EKM	3282388	3300590	3318893	3337298	3355804	3374413	3393126	3411942	3430862	3449888	3469019
TSR	3121200	3136290	3151454	3166691	3182001	3197385	3212844	3228378	3243986	3259670	3275430
PKD	2809934	2829941	2850090	2870383	2890820	2911403	2932132	2953009	2974035	2995210	3016536
MLP	4112920	4165133	4218008	4271555	4325782	4380697	4436309	4492627	4549660	4607417	4665907
KKD	3086293	3107812	3129481	3151301	3173273	3195398	3217678	3240113	3262704	3285453	3308361
WYD	817420	821194	824986	828795	832622	836466	840328	844208	848106	852022	855956
KNR	2523003	2534701	2546452	2558259	2570120	2582036	2594007	2606034	2618116	2630255	2642449
KSD	1307375	1318180	1329074	1340059	1351134	1362301	1373560	1384912	1396357	1407898	1419534

TABLE 4.4 RURAL HOUSEHOLD & POPULATION IN KERALA

RURAL	No of Households	Population			Population in the age group 0-6 person		
		Total	Male	Female	Total	Male	Female
Kerala	4149641	17471135	8408054	9063081	1823664	927888	895776
TVM	390963	1529831	724864	804967	147990	75300	72690
KLM	376679	1448217	680687	767530	137559	69705	67854
PTA	287615	1065799	499820	565979	86181	43601	42580
ALP	248616	979643	464713	514930	89414	45728	43686
KTM	346899	1409158	692673	716485	125143	63745	61398
IDK	267208	1056929	527245	529684	100459	51160	49299
EKM	259915	1048025	518510	529515	93614	47778	45836
TSR	250877	1024794	488303	536491	100977	51631	49346
PKD	482285	2133124	1031466	1101658	231892	117763	114129
MLP	448037	2295709	1095308	1200401	320051	162918	157133
KKD	235703	1013721	484784	528937	114602	58254	56348
WYD	183375	785840	386283	399557	88727	45158	43569
KNR	202229	882017	425682	456335	95223	48428	46795
KSD	169240	798328	387716	410612	91832	46719	45113

TABLE 4.5 URBAN HOUSEHOLD & POPULATION IN KERALA

URBAN	No of Households	Population			Population in the age group 0-6 person		
		Total	Male	Female	Total	Male	Female
Kerala	3704113	15934926	7619358	8315568	1649291	840356	808935
TVM	446914	1771596	856814	914782	159071	81077	77994
KLM	292696	1187158	566281	620877	116701	59194	57507
PTA	35069	131613	61896	69717	10656	5401	5255
ALP	287342	1148146	548429	599717	102632	52716	49916
KTM	140397	565393	275616	289777	49343	25078	24265
IDK	12604	52045	25563	26482	5182	2625	2557
EKM	554096	2234363	1101047	1133316	210628	107404	103224
TSR	508333	2096406	992460	1103946	202973	104231	98742
PKD	154935	676810	328012	348798	70405	35933	34472
MLP	345962	1817211	865020	952191	253990	129214	124776
KKD	462007	2072572	986158	1086414	221043	112175	108868
WYD	7519	31580	15401	16179	3597	1836	1761
KNR	352069	1640986	755764	885222	179095	90731	88364
KSD	104170	509047	240897	268150	63975	32741	31234

TABLE 4.6 HOUSEHOLD & POPULATION IN KERALA,2011 CENSUS

Name	No of Households	Population			Population in the age group 0-6 Person		
		Total	Male	Female	Total	Male	Female
Kerala	7853754	33406061	16027412	17378649	3472955	1768244	1704711
TVM	837877	3301427	1581678	1719749	307061	156377	150684
KLM	669375	2635375	1246968	1388407	254260	128899	125361
PTA	322684	1197412	561716	635696	96837	49002	47835
ALP	535958	2127789	1013142	1114647	192046	98444	93602
KTM	487296	1974551	968289	1006262	174486	88823	85663
IDK	279812	1108974	552808	556166	105641	53785	51856
EKM	814011	3282388	1619557	1662831	304242	155182	149060
TSR	759210	3121200	1480763	1640437	303950	155862	148088
PKD	637220	2809934	1359478	1450456	302297	153696	148601
MLP	793999	4112920	1960328	2152592	574041	292132	281909
KKD	697710	3086293	1470942	1615351	335645	170429	165216
WYD	190894	817420	401684	415736	92324	46994	45330
KNR	554298	2523003	1181446	1341557	274318	139159	135159
KSD	273410	1307375	628613	678762	155807	79460	76347

TABLE 4.7 Districtwise Population, Density and Sex Ratio

District	1991			2001			2011		
	Population	Sex Ratio	Density	Population	Sex Ratio	Density	Population	Sex Ratio	Density
TVM	2946650	1036	1344	3234356	1060	1476	3301427	1087	1508
KLM	2407566	1035	967	2585208	1069	1038	2635375	1113	1061
PTA	1188332	1062	451	1234016	1094	468	1197412	1132	452
ALP	2001217	1051	1415	2109160	1079	1492	2127789	1100	1504
KTM	1828271	1001	828	1953646	1025	885	1974551	1039	895
IDK	1078066	975	242	1129221	993	259	1108974	1006	255
EKM	2817236	1000	926	3105798	1019	1012	3282388	1027	1072
TSR	2737311	1085	903	2974232	1092	981	3121200	1108	1031
PKD	2382235	1061	532	2617482	1066	584	2809934	1067	627
MLP	3096330	1053	872	3625471	1066	1021	4112920	1098	1157
KKD	2619941	1027	1118	2879131	1057	1228	3086293	1098	1316
WYD	672128	966	315	780619	995	366	817420	1035	384
KNR	2251727	1049	759	2408956	1090	812	2523003	1136	852
KSD	1071508	1026	538	1204078	1047	604	1307375	1080	657
Total	29098518	1036	749	31841374	1058	820	33406061	1084	860

TABLE 4.8 Percentage Decadal Variation in Population for State & Districts: 1901-2011

State/ District	Percentage Decadal Variation										
	1901-11	1911-21	1921-31	1931-41	1941-51	1951-61	1961-71	1971-81	1981-91	1991-01	2001-11
Kerala	11.75	9.16	21.85	16.04	22.82	24.76	26.29	19.24	14.32	9.43	4.91
TVM	17.54	17.02	28.58	18.46	30.81	31.38	26.03	18.08	13.5	9.76	2.07
KLM	14.7	18.61	26.38	22.71	29.63	31.59	25.88	18.27	10.68	7.38	1.98
PTA	14.78	18.56	27.24	20.5	24.78	23.48	15.75	9.44	5.6	3.84	-2.97
ALP	14.83	18.53	24.75	13.63	18.58	20.45	19.01	11.62	7.28	5.39	0.88
KTM	8.31	19.96	32.38	21.66	20.11	16.04	17.13	10.29	7.71	6.86	1.07
IDK	108.75	9.23	72.53	30.37	35.69	74.94	31.89	25.99	10.45	7.01	-1.79
EKM	13.85	7.35	24.58	19.27	18.91	21.93	27.49	17.43	11.42	9.35	5.69
TSR	12.65	5.72	22.14	16.17	21.53	20.32	26.09	14.6	12.2	8.66	4.94
PKD	7.31	4.18	10.22	8.9	18.45	12.79	23.06	21.3	16.52	9.88	7.35
MLP	9.64	2.17	14.44	11.73	17.67	20.67	33.8	29.43	28.87	17.09	13.45
KKD	7.34	3.55	17.51	11.95	25.14	25.71	29.81	23.25	16.69	9.89	7.2
WYD	9.85	2.69	8.26	15.89	59.17	62.6	50.35	33.87	21.32	16.14	4.71
KNR	6.73	2.37	14.52	12.16	21.68	30.24	31.82	24.34	16.63	6.98	4.73
KSD	7	3.82	17.56	13.33	20.08	24.6	33.36	27.78	22.78	12.37	8.58

Appendix A

LIST OF INSTITUTIONS

A1-District TB Centres

Sl.No	District	TB Unit/ 5 lakh Population	Phone No.
1	District TB Centre, Thiruvananthapuram 0471-2464470	Thiruvananthapuram,DTC	
2		Nemom THQH	0471-2390276
3		Peroorkada, DH	0471-2432071
4		Puthenthope CHC	0471-2750023
5		Chirayinkeezhu THQH	0470-2646565
6		Neyyattinkara GH	0471-2221935
7		Nedumangadu DH	0472-2802262
8	District TB Centre, Kollam 0474 - 2748985	Karunagapally, Chest disease	
9		Kottarakkara THQH	0474-2452610
10		Punalur THQH	0475-2228702
11		Nedungolam TH	0474-2512324
12		Kollam DTC	0474 - 2748985
13	District TB Centre, Pathanamthitta 0468 - 2310890	Adoor General Hospital	04734-223236
14		Thiruvalla THQH	04692-602494
15		Ranni THQH	04735-227274
16	District TB Centre, Alappuzha 0477 - 2252861	Cherthala THQH	0478-2812693
17		Mavelikkara DH	0479-2303394
18		Karuvatta TB Clinic	0479-2491933
19		Alappuzha DTC	0477-2252861
20	District TB Centre, Kottayam 0481 - 2303965	Vaikom THQH	04829-221261
21		Kanhirapally GH	04828-202292
22		Kottayam DTC	0481-2303965
23		Changanassery GH	0481-2402329
24		Pala, Gen. Hospital	0482-2215154
25	District TB Centre, Idukki, 0486 - 2233157	Thodupuzha, THQH	
26		Vandenmedu CHC	04868-277302
27		Adimaly THQH	04864-22670
28		Painavu DH	04862-232474
29	District TB Centre, Ernakulam 0484 - 2225491	Ernakulam DTC	
30		Kochi THQH	0484-2216444
31		Kothamangalam THQH	0485-2822603
32		Perumbavoor THQH	0484-2523138
33		Moovattupuzha GH	0485-2832360
34		Aluva DH	0484-2629242
35		North Paravur THQH	0484-2442365
36		Thrissur DTC	
37	District TB Centre, Thrissur 0487 - 2428886	Vadakkanchery DH	04884-232221
38		Chavakkad TH	0487-2501110
39		Kodungallur THQH	0480-2802394
40		Chalakkudy GH	0480-2701823
41		Irinhalakuda THQH	0480-2825213

Sl.No	District	TB Unit/ 5 lakh Population	Phone No.	
42	District TB Centre, Palakkad 0491 - 2529545	Pattambi TH	0466-2213769	
43		Ottapalam THQH	0466-2244480	
44		Mannarkkad THQH	04924-222380	
45		Chittoor THQH	04923-222385	
46		Alathur THQH	04922-222322	
47		Palakkad DTC		
48		District TB Centre, Malappuram	Malappuram DTC	
49	Valanchery 24 X 7 PHC		0494-2646374	
50	Vengara CHC		0494-2457242	
51	Ponnani THQH		0494-2666039	
52	Kondotty CHC		0496-2620241	
53	Perinthalmanna DH		04933-227279	
54	DH Tirur			
55	Chungathara CHC		04931-231550	
56	District TB Centre, Kozhikode 0495 - 2740951		Kozhikode DTC	0495-2740951
57			Mukkom CHC	0495-2297260
58		Balussry TH	0496-2642150	
59		Koyilandi THQH	0496-2620241	
60		Vadakara DH	0496-2524259	
61		Kozhikode Medical College	0495-2430074	
62	District TB Centre, Wayanad 0493 - 5244149	Wayanad DTC		
63		Kalpetta GH	04936-202037	
64		Sulthan Bathery THQH	04936-221444	
65	District TB Centre, Kannur 0497 - 2733491	Kannur DTC	0497-2733491	
66		Payyannur TH	0498-5205716	
67		Iritty TH	0490-2491280	
68		Koothuparambu TH	0490-2364150	
69		Thalassery GH	0490-2322150	
70		Thaliparamba THQH	0460-2203298	
71		District TB Centre, Kasargode	Kasaragode DTC	0499 - 4222480
72	Panathady CHC		0467-2224190	
73	Kanhangadu DH		0467-2217018	

A2- Institutions with Palliative Care Programmes

District	Sl No	Name of major Hospitals
Thiruvananthapuram	1	Taluk Hospital, Varkala
	2	THQH, Chirayinkeezhu
	3	General Hospital, Neyyattinkara
	4	District Hospital, Nedumangadu
	5	General Hospital, Thiruvananthapuram
	6	DMH Peroorkkada
	7	TH Attingal
	8	TH Fort
	9	TH Nemom
	10	TH Vithura
	11	THQH Parassala
	12	THQH Malayinkeezhu
Kollam	1	District Hospital, Kollam
	2	THQH Punalur
	3	THQH Kottarakkara
	4	THQH Sasthamcotta
	5	THQH Karunagapally
	6	THQH Pathanapuram
	7	TH Neendakara
	8	TH Nedungolam
	9	TH Kadakkal
	10	TH Kundara
Pathanamthitta	1	DH Kozhencherry
	2	GH Pathanamthitta
	3	GH Adoor
	4	THQH Konni
	5	THQH Mallappally
	6	THQH Ranny
	7	THQH Thiruvalla
Alappuzha	1	THQH Haripad
	2	DH Chengannur
	3	DH Mavelikkara
	4	GH Alappuzha
	5	THQH Cherthala
	6	THQH Kayamkulam
	7	THQH Thuravoor
Idukki	1	DH Idukki
	2	DH Thodupuzha
	3	THQH Adimaly
Idukki	4	THQH Kattapana
	5	THQH Nedumkandam
	6	THQH Peerumedu
Kottayam	1	General Hospital Kottayam
	2	General Hospital Pala

	3	General Hospital Changanassery
	4	General Hospital Kanjirappally
	5	THQH Pampady
	6	THQH Kuravilangad
	7	THQH Vaikom
Ernakulam	1	GH Ernakulam
	2	GH Muvattupuzha
	3	DH Aluva
	4	THQH Kochi
	5	THQH Kothamangalam
	6	THQH Paravur
	7	THQH Perumbavoor
	8	THQH thrippunithura
	9	TH angamaly
	10	TH Karuvelippady
	11	TH Njarakal
	12	TH Piravom
	13	TH Palluruthy
	14	Th Puthenvelikkara
	15	MCH Kalamassery
	16	Cochin Cancer Research Centre
Trissur	1	GH Thrissur
	2	GH Irinjalakkuda
	3	DH Wadakkanchery
	4	THQH Chavakkad
	5	THQH Chalakudy
	6	THQH Kodungallur
	7	TH Kunnankulam
	8	TH Pudukkad
	9	TH Chelakkara
Palakkad	1	District Hospital, Palakkad
	2	Taluk Hospital, Mannarkkad
	3	Taluk Hospital, Pattambi
	4	Taluk Hospital, Ottapalam
	5	Taluk Hospital, Chittur
Palakkad	6	Taluk Hospital, Alathur
	7	CHC Kongad
	8	CHC Parli
	9	CHC Pazhambalakoode
	10	CHC Kuzhalmannam
	11	CHC Vadakkanchery
	12	CHC Nanniyodu
	13	CHC Koduvayur
	14	CHC Ambalapara
	15	CHC Chalisseri
	16	CHC Alanalloor
	17	CHC Kattampazhipuam

	18	CHC Koppam
	19	CHC Agali
	20	CHC Chalavara
	21	CHC Nenmara
	22	CHC Thrithala
	23	CHC Shornur
	24	CHC Kozhinjampara
	25	CHC Cherpulassery
	26	GTSH Kottathara
Malappuram	1	Govt. Medical College Hospital, Mancheri
	2	District Hospital, Nilambur
	3	District Hospital, Perinthalmanna
	4	District Hospital, Thirur
	5	THQH Malappuram
	6	THQH Thirurangadi
	7	THQH Ponnani
Wayanad	1	DH Manathavady
	2	GH Kalpetta
	3	THQH Sulthan Bathery
	4	THQH Vythiry
	5	CHC Porunnannore
	6	CHC Periya
	7	CHC Pulpally
	8	CHC Thariyode
	9	CHC Meenangady
	10	CHC Panamaram
	11	Tribal Hospital Nalloornd
	12	FHC Vengapally
	13	FHC Noolpuzha
	14	FHC Poothady
	15	FHC Appappara
	16	FHC Pozhuthana
	17	FHC Edavaka
	18	FHC Thondernad
	19	FHC Padinjarathara
	20	FHC Kottathara
	21	FHC Chethalayam
	22	FHC Meppadi
	23	FHC Ambalavayal
	24	FHC Cheeral
	25	FHC Vellamunda
	26	PHC Valad
	27	PHC Chulliode
	28	PHC Vazhavatta
	29	PHC Varadoor
	30	PHC Sugandhagiri
	31	PHC Mooppainad

	32	PHC Pakkom
	33	PHCMullenkolly
	34	PHC Kurukkanmoola
	35	PHC Begur
	36	PHC Kappukunnu
Kozhikkode	1	General Hospital, Kozhikode
	2	District Hospital, Vadakara
	3	THQH Koilandy
	4	TH Feroke
	5	TH Kuttiadi
	6	TH Nadapuram
	7	TH Tamarassery
	8	TH Perambra
	9	TH Balussery
Kannur	1	DH Kannur
	2	GH Thalassery
	3	TH Kuthuparamba
	4	TH Payyannur
	5	TH Peravoor
	6	THQH Thaliparamba
	7	TH Iritty
Kannur	8	TH Pazhayangadi
	9	TH Peringome
Kasargod	1	District Hospital Kanhangad
	2	General Hospital Kasaragod
	3	THQH Mangalpady
	4	THQH Panathady (Poodamkallu)
	5	THQH Bedadka
	6	THQH Nileshwaram
	7	TH Thrikaripur

A3- CATH LABS UNDER DHS

District	Institution
Kollam	D H Kollam
Pathanamthitta	G H Pathanamthitta
Ernakulam	G H Ernakulam
Malappuram	G H Manjeri



A4- DIALYSIS UNITS UNDER HEALTH SERVICE

District	No of hospitals	Dialysis units
Alappuzha	1	Taluk Head Quarters Hospital, Harippad
	2	GH Alappuzha
	3	THQH, Thuravoor
	4	DH Chengannoor
	5	DH Mavelikkara
	6	THQH Kayamkulam
	7	THQH Cherthala
Ernakulam	8	General Hospital, Ernakulam
	9	General Hospital, Muvattupuzha
	10	District Hospital, Aluva
	11	THQH, Perumbavoor
	12	THQH North Paravur
	13	THQH, Thrippunithura
	14	THQH, Fort Kochi
	15	TH, Piravom
	16	MCH Ernakulam
Idukki	17	DH, Thodupuzha
Kannur	18	DH Kannur
	19	GH Thalassery
	20	TH Kuthuparamba
	21	TH Pazhayangadi
	22	THQH Thaliparamba
	23	TH Peravoor
	24	TH Iritty
	25	Urban Dialysis Center -Uruvachal
Kasaragode	26	General Hospital, Kasaragod
	27	DH Kanhangad
	28	TH Thrikaripur
Kollam	29	District Hospital, Kollam
	30	Karunagapally
Kollam	31	Kottarakkara
	32	Punalur
	33	Sasthamcotta
	34	Kadakkal
	35	Nedungolam
	36	Neendakara
Kottayam	37	General Hospital, Kottayam
Kozhikode	38	DH Vatakara
	39	GGH
	40	TH Kuttiyadi

	41	TH Balussery
	42	TH Perambra
	43	TH Thamarassery
	44	TH Feroke
	45	TH Koyilandy
Malappuram	46	DH Tirur
	47	THQH Tirurangadi
	48	THQH Ponnani
	49	THQH Kondotty
	50	CHC Maranchery
	51	CHC Chungathara
	52	CHC Valavannur
	53	DH Nilambur
	54	GMCH Manjeri
	55	PHC TANALUR
Palakkad	56	District Hospital,Palakkad
	57	Taluk Head Quarters Hospital, Ottappalam
	58	Govt Tribal Spl Hospital, Kottathara, Attappady
	59	CHC Chalisserry
	60	THQH Mannarkkad
	61	THQH Chittur
Pathanamthitta	62	District Hospital Kozhencherry
	63	General Hospital Pathanamthitta
Pathanamthitta	64	General Hospital Adoor
	65	THQH Thiruvalla
	66	THQH Ranni
Thiruvananthapuram	67	General Hospital, Thiruvananthapuram
	68	General Hospital,Neyyattinkara
	69	DH Nedumangadu
	70	TH Fort
	71	THQH Chirayinkeezhu
	72	THQH Parassala
	73	TH Attingal
Thrissur	74	GH Thrissir
	75	THQH Chavakkad
	76	THQH Chalakudy
	77	THQH Kodungallur
	78	TH Kunnankulam
	79	CHC Mala
Wayanad	80	District Hospital,Mananthavady
	81	THQH Sulthan Bathery
	82	Taluk Head Quarters Hospital,Vythiri
	83	CHC Panamaram

A5- SPECIAL NEWBORN CARE UNITS

SL NO	DISTRICT	NAME OF HOSPITALS		E- MAIL ID
1	TVPM	SAT	SAT Hospital, TVPM	sathtvm@gmail.com
2		W&C	Thycaud, TVPM	wchthycaud@gmail.com
3	KLM	Victoria Hospital	Victoria hospital, kollam	victoriakollam@gmail.com
4	ALPY	W&C	Alappuzha	wcalpy@gmail.com
5		MCH	Alappuzha	mchalappuzha@gmail.com
6	KTYM	MCH	Kottayam	medicalcollegekottayam@gmail.com
7		GH	Kottayam	districthospitalktm@gmail.com
8	EKLM	GH	Ernakulam	generalhospitalernakulam@gmail.com
9		MCH	Ernakulam	
10	TSR	MCH	Thrissur	
11		GH	Thrissur	districthospitalthrissur@gmail.com
12	PKD	W&C	Palakkad	wandcpkd@gmail.com
13		GTSH	Kottathara,Palakkad	
14	MLPM	GH	Manjeri, Malappuram	dhmanjeri@gmail.com
15	KKD	W&C	Kozhikode	wckozhikode@gmail.com ,
16		MCH	Kozhikode	
17	KNR	DH	Kannur	dhkannur@yahoo.co.in

A6- NEW BORN STABILISATION UNIT

SL NO	DISTRICT	SL NO	NAME OF HOSPITALS		PHONE NUMBERS
1	THIRUVANANTHAPURAM	1	GH	Neyyattinkara	0471-2221935
2		2	DH	Nedumangad	0472-2802262
3		3	DMH	District Model Hospital Peroorkada	0471-2432071
4		4	THQH	Chirayinkeezhu	0470-2646565
5		5	THQH	Parassala	0471-2202266
6		6	TH	Varkala	0470-2602549
7		7	TH	Fort,Tvpm	0471-2471766
8		8	CHC	Kanyakulangara	0472-2832209
9	KOLLAM	1	THQH	Kottarakkara	0474-2452610
10		2	THQH	Punalur	0475-2228702
11		3	THQH	Karunagapally	0476-2620256
12		4	THQH	Sasthamkotta	0476-2831899
13		5	TH	Kadakkal	0474-2423301
14	PATHANAMTHITTA	1	GH	Pathanamthitta	0468-2222364
15		2	GH	Adoor	04734-223236
16		3	DH	Kozhencherry	0468-2214108
17	ALAPPUZHA	1	DH	Mavelikkara	0479-2303394
18		2	DH	Chenganoor,Alpy	0479-2452267
19		3	THQH	Cherthala	0478-2812693
20		4	THQH	Haripad	0479-2412765
21		5	THQH	Kayamkulam	0479-2447274
22	KOTTAYAM	1	GH	Changanacherry	0481-2402349
23		2	GH	Kanjirapally	04828-202292
24		3	GH	Pala	04822-215154
25		4	THQH	Vaikom	04829-231261
26	IDUKKI	1	DH	Thodupuzha,Idk	04862-222630
27		2	THQH	Adimaly	04864-22670
28		3	THQH	Nedumkandam,Idk	04868-232650
29	ERNAKULAM	1	GH	Muvattupuzha	0485-2832360
30		2	DH	Aluva	0484-2629242
31		3	W&C	W & C Ernakulam	0484-2224511
32		4	THQH	North Paravoor	0484-2442365
33		5	THQH	Perumbavoor	0484-2523138
34		6	THQH	Kothamangalam	0485-2822603
35		7	THQH	Thrippunithura	0484-2777315
36	THRISSUR	1	DH	Vadakkancherry	04884-232221

37		2	THQH	Kodungallur	0480-2802394
38		3	THQH	Chalakudy	0480-2701823
39		4	THQH	Chavakkad	0487-2501110
40		5	TH	Kunnamkulam	04885-222233
41	PALAKKAD	1	THQH	Ottapalam	0466-2244480
42		2	THQH	Alathur	04922-222322
43		3	THQH	Chittur	04923-222385
44		4	THQH	Mannarkkad	04924-222380
45	MALAPPURAM	1	DH	Nilambur	04931-220351
46		2	DH	Perinthalmanna	04933-227279
47		3	DH	Tirur	0494-2423834
48		4	THQH	Tirurangadi	0494-2460372
49		5	THQH	Ponnani	0494-2663089
50		6	THQH	Malappuram	0483-2734866
51		7	TH	Wandoor	04931-247378
52		8	TH	Areacode	0483-2851700
53		9	CHC	Edappal	0494-2685189
54	KOZHIKKODE	1	DH	Vadakara	0496-2524259
55		2	THQH	Koilandy	0496-2620241
56		3	TH	Perambra	0496-2610575
57		4	TH	Kuttiyadi	0496-2597173
58		5	TH	Thamarasserry	0495-2222098
59	WAYANAD	1	DH	Mananthavadi	04935-240265
60		2	THQH	Sulthan Bathery	04936-221136
61		3	THQH	Vythiri	04936-255228
62		4	CHC	Meenangady	04936-247290
63	KANNUR	1	GH	Thalassery	0490-2322150
64		2	THQH	Thaliparamba	0460-2203298
65		3	TH	Payyanur	0498-5205716
66		4	TH	Koothuparamba	0490-2364150
67	KASARGODE	1	GH	Kasaragod	0494-230080
68		2	DH	Kanjanad	0467-2217018

A7- List of Blood Banks in Kerala

Sl.No.	Name of the Blood Bank	Full Postal Address	District	Govt. / Pvt.	Category
1	K.V.M.Hospital	Chertala, Alappuzha, Kerala 688524	Alappuzha	Private	BB
2	Century Hospital	Mulakuzha, Chenganoor, Alappuzha, Kerala 689505	Alappuzha	Private	BCSU
3	Sacred Heart Hospital	Green Gardens, Mathilakom, Cherthala, Alappuzha, Kerala 688524	Alappuzha	Private	BB
4	V S M Hospital	Thattarambalam, Mavelikkara, Alappuzha, Kerala 690103	Alappuzha	Private	BB
5	Sanjivani Multispeciality Hospital	Alacode, Kollakadavu P O, Cheriyanaad , Chengannur, Alappuzha, Kerala 690509	Alappuzha	Private	BCSU
6	Medical College Hospital	Vandanam, Alappuzha, Kerala 688005	Alappuzha	Government	BCSU
7	Women & Children Hospital	Beach Bazar.P.O, Alappuzha, Kerala 688012	Alappuzha	Government	BB
8	General Hospital, Alappuzha	General Hospital Rd, Anantha Narayanapuram, Alappuzha, Kerala 688011	Alappuzha	Government	Up Coming BCSU
9	Carmel Hospital	Ashokapuram, Aluva, Ernakulam, Kerala 683101	Ernakulam	Private	BB
10	Little Flower Hospital	M.C.Road, Angamaly, Ernakulam, Kerala 683572	Ernakulam	Private	BCSU
11	Aster Medicity	Kuttysahib Road, x005F_x000D_South Chittoor P.O., Cheranelloor, Ernakulam Kerala 682027	Ernakulam	Private	BCSU
12	Amritha Institute of Medical Sciences & Research Centre	Ponekkara P. O, Ernakulam, Kerala 682041	Ernakulam	Private	BCSU
13	INHS Sanjivani	Naval Base Parade Ground, Willingdon Island, Ernakulam, Kerala 682003	Ernakulam	Defence	BB
14	Lisie Hospital	Kathrikadavu, Kaloore, Ernakulam, Kerala 682017	Ernakulam	Private	BCSU
15	Malankara Orthodox Syrian Church Medical College Hospital	Kolencherry, Ernakulam, Kerala 680311	Ernakulam	Private	BCSU
16	Medical Trust Hospital	M.G. Road, Ernakulam, Kerala 682016	Ernakulam	Private	BCSU

17	Samaritan Hospital	Pazhanganad, Kizhakambalam, Ernakulam, Kerala 680562	Ernakulam	Private	BB
18	Sunrise Institute of Medical Sciences (P) Ltd.	Seaport - Airport Road, Kakkanad, Ernakulam, Kerala 682 030	Ernakulam	Private	BCSU
19	Devamatha Hospital	Koothattukulam, Ernakulam, Kerala 686662	Ernakulam	Private	BB
20	Mar Baselius Medical Mission Hospital	NH49, Near Post office, Kothamangalam P.O., Ernakulam Kerala 686691	Ernakulam	Private	BB
21	St Joseph Hospital	Dharmagiri, Kothamangalam, Ernakulam, Kerala 686691	Ernakulam	Private	BB
22	Lakeshore Hospital & Research Centre Ltd	NH-47 Bypass, Maradu, Nettoor P.O, Ernakulam Kerala 682040	Ernakulam	Private	BCSU
23	Nirmala Medical Center	Kizhakkera, Moovattupuzha, Ernakulam, Kerala 686661	Ernakulam	Private	BB
24	Sree Narayana Institute of Medical Sciences	Chalacka, North Kuthyathode, Ernakulam, Kerala 683594	Ernakulam	Private	BCSU
25	Sanjoe Hospital	A.M.Road, Perumbavoor, Ernakulam, Kerala 680541	Ernakulam	Private	BB
26	Rajagiri Hospital	Changamveli, Aluva, Ernakulam Kerala 683112	Ernakulam	Private	BCSU
27	Govt. Medical College Hospital	HMT Colony P.O., Kalamassery, Ernakulam, Kerala 683503	Ernakulam	Government	BCSU
28	General Hospital	Ernakulam, Kerala 682011	Ernakulam	Government	BCSU
29	IMA Voluntary Donor Blood Bank	T.D Road, Ernakulam, Kerala 682011	Ernakulam	Private	BCSU
30	Lourds Hospital	Pachalam, Ernakulam, Kerala 682012	Ernakulam	Private	BCSU
31	District Hospital	Aluva, Ernakulam, Kerala 683101	Ernakulam	Government	BCSU
32	Renai Medicity	Palarivattom P.O, Ernakulam, Kerala 682025	Ernakulam	Private	BCSU
33	MAGJ Hospital	Mookkannoor P.O., Angamaly, Ernakulam, Kerala 683 577	Ernakulam	Private	BB
34	Morning Star Medical Centre	Nazareth Hill, Adimali, Idukki, Kerala 685561	Idukki	Private	BB
35	St Johns Hospital	Kattappana South P.O, Idukki Kerala 685515	Idukki	Private	BCSU
36	M.M.T.Hospital, (Mundakkayam Medical Trust Hospital)	Mundakayam East P.O, Idukki, Kerala 686513	Idukki	Private	BB

37	Tata Tea Limited, General Hospital	Nullatanni, Munnar, Idukki, Kerala 685612	Idukki	Private	BB
38	Alphonsa Hospital	SH 19 Bypass, Kalladathur, Anakkara, Murikkassery, Idukki Kerala 685512	Idukki	Private	BB
39	Holy Family Hospital	Muthalakodam, Thodupuzha, Idukki, Kerala 686505	Idukki	Private	BB
40	Al-Azhar Medical College & Super Speciality Hospital,	Ezhalloor P O, Kumaramangalam, Thodupuzha, Idukki, Kerala 685605	Idukki	Private	BCSU
41	District Hospital	Painavu, Idukki, Kerala 685603	Idukki	Government	Upgrading as BCSU
42	IMA Blood Bank Society	Thodupuzha, Idukki, Kerala 685584	Idukki	Private	BCSU
43	Chazhikattu Hospital (P) Ltd	Thodupuzha, Idukki, Kerala 685584	Idukki	Private	BCSU
44	Kannur Medical College and Hospital (Prestige edu Trust)	Chovva Mathanur Road, Anjarakandy P.O., Kannur, Kerala 670612	Kannur	Private	BCSU
45	St.Martin De Porres Hospital	Cherukunnu PO, Kannur, Kerala 670301	Kannur	Private	BB
46	Cannanore Co-Op Hospital Society	Kasaragod - Kannur Road, Talap, Talap, Kannur, Kerala 670002	Kannur	Co-operative	BCSU
47	Sara Memorial Medical Laboratory and Blood Bank	Brigade Centre_x005F_x000D_, Fort Road, Kannur Kerala 670001	Kannur	Private	BCSU
48	The Payyannur Co-operative Hospital Society Ltd.	South Bazar, Payyanur, Kannur, Kerala 670503	Kannur	Co-operative	BB
49	Tellichery Co-Operative Hospital	Thalaseery, Kannur, Kerala 670101	Kannur	Co-operative	BB
50	Josgiri Hospital	Thalaseery, Kannur, Kerala 670101	Kannur	Private	BB
51	Govt Medical College Hospital, Pariyaram, Kannur (Kerala State Co-operative Hospital Complex & Centre for advanced Medical Services Ltd.) (Academy of Medical Science)	Pariyaram, Kannur, Kerala 670503	Kannur	Government	BCSU

52	District Hospital	Kannur, Kerala 670017	Kannur	Government	BCSU
53	General Hospital, Thalassery	Thalassery, Kannur, Kerala 670101	Kannur	Government	BCSU
54	Malabar Cancer Centre	Moozhikkara P.O., Thalassery, Kannur, Kerala 670003	Kannur	Government	BCSU
55	Aster MIMS, Chala (East), Kannur	Blood Bank, Aster MIMS, Chala (East), Kannur (Dist), 670621	Kannur	Private	BCSU
56	CO OPERATIVE HOSPITAL SOCIETY LTD, TALIPARAMBA, KANNUR	CO OPERATIVE HOSPITAL SOCIETY LTD; NO.C-1468, TALIPARAMBA, SECOND FLOOR, TALIPARAMBA, KANNUR DISTRICT, KERALA, 670141	Kannur	Private	BB
57	District Hospital, Kanhangad	Kanhangad, Kasargod, Kerala 671315	Kasargod	Government	BCSU
58	General Hospital	Kasargod, Kerala 671121	Kasargod	Government	Upgrading as BCSU
59	S.N.Trust Medical Mission Sankars Hospital	Q.S. Road, Kollam, Kerala 691001	Kollam	Private	BB
60	Upasana Hospital	Q.S. Road, N.H. 208, Kollam, Kerala 691001	Kollam	Private	BB
61	Padmavathy Medical Foundation	Sasthamkotta Road, Manakkara, Kollam, Kerala 690521	Kollam	Private	BCSU
62	Azeezia Medical College	Diamond Hill, Meeyanoor P.O., Kollam, Kerala 691537	Kollam	Private	BCSU
63	Travancore Medical College Hospital, Medicity	N.H. Bypass road, Umayanalloor, Kollam, Kerala 691589	Kollam	Private	BCSU
64	Medical College Hospital	Parippally, Kollam 691574	Kollam	Government	BCSU
65	Bishop Benziger Hospital	Beach Road, Kollam, Kerala 691001	Kollam	Private	BB
66	District Hospital	Chinnakada, Kollam, Kerala 691001	Kollam	Government	BCSU
67	Holy Cross Hospital	Kottiyam, Kollam, Kerala 691571	Kollam	Private	BCSU
68	IMA Blood Bank	Ist Floor, IMA Centre, Ashramam, Kollam, Kerala 691002	Kollam	Private	BCSU
69	St. Joseph Hospital	Anchal.P.O, Kollam, Kerala 691306	Kollam	Private	BB

70	Taluk Head Quarters Hospital	Kollam - Chenkotta Road, Kottarakara, Kollam, Kerala 691506	Kollam	Government	BB
71	Taluk Head Quarters Hospital	Panamkuttymala, Punalur, Kollam, Kerala 691305	Kollam	Government	BCSU
72	Meditrina Hospital	Kollam - Aloor Road, Ayathil, Kollam, Kerala 691021	Kollam	Private	BCSU
73	Mary Queens Mission Hospital	Palampra P.O., Kanjirapally, Kottayam, Kerala 686 518	Kottayam	Private	BB
74	Little Lourde Mission Hospital	Kidagoor, Kottayam, Kerala 686752	Kottayam	Private	BB
75	St Thomas Hospital	Kurisummoodu P.O., Chettipuzha, Changanacherry, Kottayam, Kerala 686104	Kottayam	Private	BB
76	MUM Hospital	Monippally P.O., Kottayam, Kerala 686636	Kottayam	Private	BB
77	Holy Ghost Mission Hospital	Muttuchira, Kottayam, Kerala 686613	Kottayam	Private	BB
78	S.H. Medical Centre	Nagampadam, Kottayam, Kerala 686001	Kottayam	Private	BCSU
79	Carmel Medical Centre	Kizhathadiyoor PO, Pala, Kottayam, Kerala 686574	Kottayam	Private	BB
80	Marian Medical Centre	Arunapuram P.O., Pala, Kottayam, Kerala 686574	Kottayam	Private	BCSU
81	Velankanni Matha Hospital Pvt. Ltd.	MC Road, Thellakom, Kottayam, Kerala 686630	Kottayam	Private	BCSU
82	Caritas Hospital	M.C. Road, Thellakom, Kottayam, Kerala 686630	Kottayam	Private	BCSU
83	Indo American Hospital	Chemmanakary, Akkarappadam P.O, Vaikom, Kottayam, Kerala 686143	Kottayam	Private	BB
84	Bharath Charitable Hospital Society	Azad Lane, Kottayam, Kerala 686001	Kottayam	Private	BCSU
85	District Hospital	Kottayam-Kumily Rd, Kottayam, Kerala 686001	Kottayam	Government	Upgrading as BCSU
86	I.H.M. HOSPITAL	Bharananganam, Pala, Kottayam, Kerala 686578	Kottayam	Private	BB
87	Medical College Hospital	Gandhi Nagar, Kottayam, Kerala 686008	Kottayam	Government	BCSU
88	Mar Sleeva Medicity Palai	Cherpunkal, Kezhuvankulam PO ,Kottayam 686584	Kottayam	Private	BCSU
89	Malabar Medical College Hospital	Modakkallur, Atholi, Kozhikode, Kerala 673321	Kozhikode	Private	BCSU

90	Metromed International Cardiac Centre	Thondayad Bypass Road, _x005F_x000D_Palazhi, Kozhikode, Kerala 673014	Kozhikode	Private	BB
91	Kozhikode District Co - Operative Hospital	Mini Bypass Road, Eranhipaalam, Kozhikode, Kerala 673006	Kozhikode	Co-operative	BCSU
92	Baby Memorial Hospital	Indira Gandhi Road, Arayidathupalam, Kozhikode, Kerala 673004	Kozhikode	Private	BCSU
93	KMCT Hospital	Manassery P.O, Mukkam, Kozhikode, Kerala 673602	Kozhikode	Private	BCSU
94	National Hospital	Mavoor Road, Near KSRTC Bus Stand, Kozhikode, Kerala 673001	Kozhikode	Private	BCSU
95	Malabar Institute Of Medical Sciences	Mini By-pass Road, Govindapuram, Kozhikode, Kerala 673016	Kozhikode	Private	BCSU
96	IQRAA Hospital	Malaparamba, Kozhikode, Kerala 673009	Kozhikode	Private	BCSU
97	Nirmala Hospital	Wayanad Road, Marikunnu, Vellimadukunnu, Kozhikode, Kerala 673012	Kozhikode	Private	BB
98	St. Joseph's Hospital	Agastianmoozhi, Mukkam, Kozhikkode, Kerala 673602	Kozhikode	Private	BB
99	PVS Hospital	Railway Station Road, Kozhikode, Kerala 673002	Kozhikode	Private	BCSU
100	Santhi Hospital	Omaserry, Kozhikode, Kerala 673582	Kozhikode	Private	BB
101	Badagara Sahakarana Asupathri Ltd.	Narayana Nagar, Vadakara, Kozhikode Kerala 673101	Kozhikode	Co-operative	BCSU
102	General Hospital (Beach)	Beach P.O., Kozhikode, Kerala 673032	Kozhikode	Government	BCSU
103	Govt. W & C Hospital	Kottapparamba, Kozhikode, Kerala 673001	Kozhikode	Government	BCSU
104	Medical College Hospital	Kozhikode, Kerala 673008	Kozhikode	Government	BCSU
105	District Hospital	Vadakara, Kozhikode Kerala 673101	Kozhikode	Government	BB
106	Meitra Hospital	Mini Bypass Road, Edakkad, Kozhikode, Kerala 673005	Kozhikode	Private	BCSU
107	MVR Cancer Centre & Research Institute	Choolur, Vellasser PO, Poolacode, Kozhikode, Kerala 673601	Kozhikode	Private	BCSU
108	Edappal Hospital (P) Ltd	Pattambi Road, Edappal, Malappuram, Kerala 679576	Malappuram	Private	BB

109	Malabar Institute of Medical Sciences	Changuvetty, Kottakkal P.O., Malappuram, Kerala 676503	Malappuram	Private	BCSU
110	Almas Hospital	Changuvetty, Kottakkal, Malappuram, Kerala 676503	Malappuram	Private	BCSU
111	Korambayil Hospital	East Road, Manjeri College P.O., Manjeri, Malappuram, Kerala 676122	Malappuram	Private	BCSU
112	Al-Shifa Hospital Pvt Ltd.	Ootty Road, Perinthalmanna, Malappuram, Kerala 679322	Malappuram	Private	BCSU
113	MES Medical College Hospital	Malaparamba, Palachode P.O., Perinthalmanna, Malappuram, Kerala 679338	Malappuram	Private	BCSU
114	Medical College Hospital	Vellarangal, Manjeri, Malappuram, Kerala 676121	Malappuram	Government	BCSU
115	Govt Hospital	Shanti Nagar, Perinthalmanna, Malappuram, Kerala 679322	Malappuram	Government	BCSU
116	District Hospital	Civil Station Road, Thrikandiyoor P.O, Tirur, Malappuram, Kerala 676104	Malappuram	Government	Upgrading as BCSU
117	Karuna Medical College Hospital	Vilayodi, Chittur, Palakkad, Kerala 678103	Palakkad	Private	BCSU
118	Valluvanad Hospital	Kanniyampuram Post, Ottapalam, Palakkad, Kerala 679104	Palakkad	Private	BCSU
119	Palakkad Blood Bank	Soorya Enclave, Opposite Palat Hospital, x005F_x000D_Civil Station Road, Palakkad Kerala 678001	Palakkad	Private	BB
120	The Palakkad District Co-operative Hospital	Rajiv Gandhi Hospital Complex, Kallekkad, Kodunthirapully P.O. Palakkad 678004	Palakkad	Co-operative	BCSU
121	District Hospital	Sultanpet, Palakkad, Kerala 678001	Palakkad	Government	BCSU
122	Ahalia Hospital	Kanal Pirivu, Palakkad, Kerala 678557	Palakkad	Private	BCSU
123	PK Das Institute of Medical Sciences	Vaniamkulam, Ottapalam, Palakkad, Kerala 679522	Palakkad	Private	BCSU
124	Kerala Medical College Hospital	Mangode, Cherpulassery, Palakkad, Kerala 679503	Palakkad	Private	BB
125	Mother Care Hospital	Vattambalam, Kumaramputhur P.O, Mannarkkad, Palakkad, Kerala 678583	Palakkad	Private	BB
126	Taluk Head Quarters Hospital, Mannarkkad	Mannarkkad PO, Palakkad 678582	Palakkad	Government	BCSU

127	Lifeline Super Speciality Hospital	14th Mile, Melood P.O, Adoor, Pathanamthitta, Kerala 691554	Pathanamthitta	Private	BCSU
128	MGM Muthoot Medical Centre	College Road , Kozhencherry, Pathanamthitta, Kerala 689641	Pathanamthitta	Private	BCSU
129	Fellowship Mission Hospital	Vellikara, Kumbanad, Thiruvalla, Pathanamthitta, Kerala 689547	Pathanamthitta	Private	BB
130	Chithra Hospital	Main Central Rd, Kadakkadu, Pandalam, Pathanamthitta, Kerala 689501	Pathanamthitta	Private	BB
131	Tiruvalla Medical Mission Hospital	Tiruvalla, Pathanamthitta, Kerala 689101	Pathanamthitta	Private	BCSU
132	Pushpagiri Hospital	Thiruvalla, Pathanamthitta, Kerala 689101	Pathanamthitta	Private	BCSU
133	Believers Church Medical College Hospital	St.Thomas Nagar, Kuttapuzha P.O., Thiruvalla, Pathanamthitta, Kerala 689103	Pathanamthitta	Private	BCSU
134	MGM Muthoot Medical Centre	Ring Road, Pathanamthitta, Kerala 689645	Pathanamthitta	Private	BB
135	Poyanil Hospital	Kozhencherry, Pathanamthitta, Kerala 689641	Pathanamthitta	Private	BCSU
136	Mount Zion Medical College Hospital	Ezhamkulam, Adoor, Pathanamthitta, Kerala 691556	Pathanamthitta	Private	BCSU
137	General Hospital	Pathanamthitta, Kerala 689645	Pathanamthitta	Government	BCSU
138	Taluk Headquarters Hospital	Thiruvalla, Pathanamthitta, Kerala 689101	Pathanamthitta	Government	BB
139	Holy Cross Hospital	Kayamkulam - Pathanapuram Road, Adoor, Pathanamthitta, Kerala 691523	Pathanamthitta	Private	BB
140	St. Gregorios Medical Mission Hospital	Parumala, Pathanamthitta, Kerala 689626	Pathanamthitta	Private	BCSU
141	Christian Mission Hospital	SH 1, Pandalam, Pathanamthitta, Kerala 689501	Pathanamthitta	Private	BB
142	Amala Institute of Medical Science	Amala Nagar P.O., Thrissur, Kerala 680555	Thrissur	Private	BCSU
143	St James Hospital	Old Highway, Chalakudy, Thrissur, Kerala 680307	Thrissur	Private	BB
144	St Josephs Hospital	Choondal, Thrissur, Kerala 680502	Thrissur	Private	BB
145	Mary Immaculate Mission Hospital	Chanthappadi, Polakkan, Engandiyoor, Thrissur, Kerala 680615	Thrissur	Private	BB
146	Modern Hospital	Kodungallur P.O., Thrissur, Kerala 680664	Thrissur	Private	BB

147	Unity Hospital (P) Ltd	Kanippayur P.O., Kunnamkulam, Thrissur, Kerala 680503	Thrissur	Private	BB
148	Maria Theresa Hospital	Kundai, Kuzhikkattusery, Mala, Thrissur, Kerala 680697	Thrissur	Private	BB
149	Mother Hospital	Pullazhi P.O., Olari, Thrissur, Kerala 680 012	Thrissur	Private	BB
150	Sacred Heart Mission Hospital	Pullur P.O., Irinjalakuda, Thrissur, Kerala 680 683	Thrissur	Private	BB
151	West Fort Hitech Hospital	Guruayoor Road, Punkunnam, Thrissur, Kerala 680002	Thrissur	Private	BB
152	West Fort Hospital	Westfort, Thrissur, Kerala 680 004	Thrissur	Private	BB
153	Jubilee Mission Hospital	Fathima Nagar, Nellikunnu, Thrissur, Kerala 680006	Thrissur	Private	BCSU
154	Malankara Medical Mission Hospital	Adupooty Hills, Kunnamkulam, Thrissur, Kerala 680503	Thrissur	Private	BB
155	District Hospital	Thrissur, Kerala 680020	Thrissur	Government	BCSU
156	IMA Blood Bank Complex & Research Centre	Padukkad Road, Mannumkad, Ramavarmapuram P.O., Thrissur, Kerala 680631	Thrissur	Private	BCSU
157	Medical College Hospital	Mulangunnathukavu, Thrissur, Kerala 680596	Thrissur	Government	BCSU
158	Aswini Hospital Limited, Thrissur	Karunakaran Nambiar Rd, aswani junction, Patturaikkal, opposite to Big Bazaar, Thrissur, Kerala 680020	Thrissur	Private	BB
159	Dr.Somervel CSI Mission Hospital	Karakonam P.O. Trivandrum, Kerala 695504	Trivandrum	Private	BCSU
160	NIMS Hospital	Aralumoodu, Neyyattinkara, Trivandrum, Kerala 695123	Trivandrum	Private	BCSU
161	PRS Hospital Private Limited	Killipalam, Trivandrum, Kerala 695002	Trivandrum	Private	BCSU
162	Ananthapuri Hospital and Research Institute	NH Bypass, Chacka, Trivandrum, Kerala 695024	Trivandrum	Private	BCSU
163	Kerala Institute of Medical Sciences	Anayara P.O, Trivandrum, Kerala 695029	Trivandrum	Private	BCSU
164	Sivagiri Sree Narayana Medical Mission Hospital	Puthenchanda P.O, Varkala, Trivandrum, Kerala 695145	Trivandrum	Private	BB
165	Cosmopolitan Hospitals Pvt Ltd	Pattom, Trivandrum, Kerala 695004	Trivandrum	Private	BCSU

166	Sree Uthradam Thirunal Hospital	Pattom, Trivandrum, Kerala 695004	Trivandrum	Private	BCSU
167	Sree Gokulam Medical College and Research Foundation	Aalamthara - Bhoothamadakki Road, Venjaramoodu, Trivandrum, Kerala 695607	Trivandrum	Private	BCSU
168	SUT Academy of Medical Science	Vencode P.O. , Vattappara, Trivandrum, Kerala 695028.	Trivandrum	Private	BB
169	General Hospital	Red Cross Rd., Thiruvananthapuram, Kerala 695035	Trivandrum	Government	BCSU
170	Medical College Hospital	Ulloor, Thiruvananthapuram, Kerala 695011	Trivandrum	Government	BCSU
171	Regional Cancer Centre	Medical College Campus, Ulloor, Thiruvananthapuram, Kerala 695011	Trivandrum	Government	BCSU
172	Sree Chitra Thirunal Institute for Science & Technology	Medical College Campus, Ulloor, Thiruvananthapuram, Kerala 695011	Trivandrum	Government	BCSU
173	Taluk Headquarters Hospital	Chirayinkeezhu, Thiruvananthapuram, Kerala 695304	Trivandrum	Government	BB
174	W & C Hospital	CV Raman Pillai Road, Thycaud, Thiruvananthapuram, Kerala 695014	Trivandrum	Government	Upgrading as BCSU
175	District Hospital	Alummoodu, Neyyattinkara, Thiruvananthapuram, Kerala 695121	Trivandrum	Government	BB
176	Sri Ramakrishna Ashrama Charitable Hospital	Sasthamangalam, Thiruvananthapuram, Kerala 695010	Trivandrum	Private	BCSU
177	Leo Hospital	Mandayapuram, Kalpetta P.O., Wayanad, Kerala 673121	Wayanad	Private	BB
178	D M Wayanad Institute of Medical Sciences	Naseera Nagar, Meppadi P.O, Kalpetta, Wayanad, Kerala 673577	Wayanad	Private	BCSU
179	District Hospital	Thazhe Angadi, Mananthavady, Wayanad, Kerala 670645	Wayanad	Government	BCSU
180	Taluk Headquarters Hospital	Police Station Road, Fairland Colony, Sulthan Bathery, Wayanad, Kerala 673592	Wayanad	Government	Upgrading as BCSU

Appendix B

Telephone Numbers

B1- Telephone Numbers of District Medical Officers, Health

District	Name	Office Phone Number	Mobile
Thiruvananthapuram	Dr. Preetha P P	0471 2473257	9946105472
Kollam	Dr R Sreelatha	0474 2795017	9946105473
Pathanamthitta	Dr Sheeja A L	0468 2222642	9446105475
Alappuzha	Dr Anithakumary L	0477-2251650	9946105477
Kottayam	Dr Jacob Varghese	0481 2562923	9946105479
		0481 2562778	
Idukki	Dr Priya N	04862 233030	9446130963
Ernakulam	Dr N K Kuttappan	0484 2360802	9946105483
		0484 2562778	
Thrissur	Dr Reena K J	0487 2333050	9946105485
		0487 2333242	
Palakkad	Dr Reetha K P	0491 2505189	9946105487
Malappuram	Dr Sakeena K	04832 736241	9946105489
		04832 737857	
Kozhikode	Dr Jayasree V	04952 370540	9946105491
		04952 370494	
Kannur	Dr Narayana Naik K	04972 700709	9946105495
		04972 700194	
Wayand	Dr Renuka R	0493 5241150	9946105493
		0493 5240390	
Kasagode	Dr Ramdas A V	04672 203118	9447685908
		04672 209433	

B2- Telephone Numbers of Programme Officers, DHS

Sl.No	NAME	DESIGNATION	OFFICE	OFFICE (MOBILE)
1	Dr.SARITHA R L	Director of Health Services	2303025	9447139266
2	Dr.Raju.V.R	Addl.DHS (Plg)	2302292	9400355719
3	Dr.Bindhu Mohan	Addl.DHS (Medical)	2519261	9447343238
4	Dr. Preetha P P	Addl.DHS (FW)	2303080	
5	Dr. Parvathy.A.P	Addl.DHS (TB) I/C MR	2519283	9447424678
6	Dr. Meenakshi	Addl.DHS (PH)	2302160	9946102860
7	Dr. Muraleedharan Pillai C	Addl.DHS (Vig)	2302869	9447136608
8	Dr. Semeera. A	Addl DHS (Training & Administration)	2519303	9447525157
9	Dr. Sandeep K	Dy.DHS (FW)	2302490	8943777106
10	Dr. Vidya K.R	Dy.DHS (PH & Leprocy)	2302745	9446764488
11		Dy.DHS (OPH)	2519225	
12	Dr. Symon Morison	Dy.DHS (Dental)	2519250	6238778118, 9995900000
13	Dr.C. K. Jagadeesan	Dy.DHS(Planning)	2519243	9447124413
14	Dr. Sheela S	Asst.Dir. (PH)	2519318	907277702
15	Dr. Veena H Saroji	Asst. Dir (Planning)		9447696978, 9447819437
16	Dr. Santha K H	Dy.DHS (MH)	2519275	9446221118
17	Dr.Manjula Bai.N.S	Asst. Dir ORT	2519282	9447494937
18	Dr. Bipin K Gopal	IUD M.O	2519275	9946105969
19	Sri Sunil Kumar	Director State TB cell	2466058	
20	Sri.R.T.Madhu	SHTO	2519278	9446460243
21	Smt. Kumari Beena V T	Sr.A.O	2303476, 2519259	9968842969
22	Smt. Sheela P	Sr.F.O	2519279	9446123388
23	Sr. Jaimohan N	Jr. F O	2519343	9747855156
24	Smt. Nisy Chacko	ELO		9633147929
25	Smt. Ushakanthy K	L.O		9495270753
26	Sr. Ajay K N	SMEMO		9446268893
27	Smt. Ambiliprasad	DDNS	2519321	9400779873
28	Smt. M.G.Sobhana	Addl DNS	2519320	9496243554
29	Dr. Sindhu Sreedharan	JAMO (PH)		9747853036
30	Dr.Anoj.S	JAMO(FW)		9447335860
31	Dr. Ajan	JAMO (Planning)		9496337143
32	Dr Suja S R	JAMO (A&T)		9495903797
33	Sri. Preeth V.S	Demographer	2519229	9447859326

Appendix C

DAYS TO BE REMEMBERED

C1- Days to be remembered

Sl. No	Date	Days
1	12-Jan	National Youth Day
2	30-Jan	Anti-Leprosy Day
3	8-Mar	International Women's Day
4	22-Mar	World Water Day
5	24-Mar	World TB Day
6	7-Apr	World Health Day
7	11-Apr	World Motherhood Day
8	17-Apr	International Hemophilia day
9	8-May	World Red Cross Day
10	10-May	Mother's Day
11	12-May	Nurse Day
12	15-May	International Day of Family
13	21-May	Anti-Terrorism Day
14	31-May	Anti-Tobacco Day
15	June	Anti-Malaria Month
16	4-Jun	Day of Innocent Children Aggression Day
17	5-Jun	World Environment Day
18	June 5-11	ORT Week
19	12-Jun	World day against Child Labour
20	14-Jun	Blood Donors Day
21	26-Jun	International Day against Drug Abuses & Illicit tackling
22	1-Jul	Doctor's Day
23	11-Jul	World Population Day
24	29-Jul	ORS Day
25	August 1-7	Breast Feeding Week

26	20-Aug	World Mosquito Day
27	August 25- September 8	Eye Donation Fortnight
28	Sept. 1-7	National Nutrition Week
29	Sept. 8	World Literacy Day
30	Sept. 21	Alzheimer's Day
31	Sept. 25	Heart Day
32	Sept. 26	Day of the Deaf
33	1-Oct	Blood Donation Day & International Day for the elderly
34	2-Oct	National Sanitation Day
35	10-Oct	Mental Health Day
36	12-Oct	World Sight Day
37	13-Oct	U.N. International Day for Natural Disaster Reduction
38	16-Oct	World Food Day
39	21-Oct	Global Iodine Deficiency Disorders Control Day
40	7-Nov	World Cancer Awareness Day
41	10-Nov	World Immunization Day
42	11-Nov	National Filaria Day
43	14-Nov	World Diabetes Day & Children's Day
44	16-Nov	Pulmonary Disease Day
45	19-Nov	National Integration and Harmony Day
46	24-Nov	Women's Day
47	1-Dec	World Aids Day
48	3-Dec	World disabled day
49	10-Dec	Human Rights Day

Appendix D

LSGD WARDS

D1- Number of Local Self Government Institutions and the number of Wards

Sl.No.	District	Grama Panchayat		Block Panchayat		District Panchayat		Municipality		Corporation		Total	
		Number	No. of wards	Number	No. of wards	Number	No. of wards	Number	No. of wards	Number	No. of wards	Number	No. of wards
1	TVM	73	1299	11	157	1	26	4	147	1	100	90	1729
2	KLM	68	1234	11	152	1	26	4	131	1	55	85	1598
3	PTA	53	788	8	106	1	16	4	132	0	0	66	1042
4	ALP	72	1169	12	158	1	23	6	215	0	0	91	1565
5	KTM	71	1140	11	146	1	22	6	204	0	0	89	1512
6	IDK	52	792	8	104	1	16	2	69	0	0	63	981
7	EKM	82	1338	14	185	1	27	13	421	1	74	111	2045
8	TSR	86	1465	16	213	1	29	7	274	1	55	111	2036
9	PKD	88	1490	13	183	1	30	7	240	0	0	109	1943
10	MLP	94	1778	15	223	1	32	12	479	0	0	122	2512
11	KKD	70	1226	12	169	1	27	7	265	1	75	91	1762
12	WYD	23	413	4	54	1	16	3	99	0	0	31	582
13	KNR	71	1166	11	149	1	24	9	289	1	55	93	1683
14	KSD	38	664	6	83	1	17	3	113	0	0	48	877
Kerala		941	15962	152	2082	14	331	87	3078	6	414	1200	21867

Appendix E

National Immunisation Schedule

National Immunization Schedule (NIS) for Infants, Children and Pregnant Women

Vaccine	When to give	Dose	Route	Site
For Pregnant Women				
TT-1	Early in pregnancy	0.5 ml	Intra-muscular	Upper Arm
TT-2	4 weeks after TT-1*	0.5 ml	Intra-muscular	Upper Arm
TT- Booster	If received 2 TT doses in a pregnancy within the last 3 yrs*	0.5 ml	Intra-muscular	Upper Arm
For Infants				
BCG	At birth or as early as possible till one year of age	0.1ml (0.05ml until 1 month age)	Intra-dermal	Left Upper Arm
Hepatitis B - Birth dose	At birth or as early as possible within 24 hours	0.5 ml	Intra-muscular	Antero-lateral side of mid-thigh
OPV-0	At birth or as early as possible within the first 15 days	2 drops	Oral	Oral
OPV 1, 2 & 3	At 6 weeks, 10 weeks & 14 weeks (OPV can be given till 5 years of age)	2 drops	Oral	Oral
Pentavalent 1, 2 & 3	At 6 weeks, 10 weeks & 14 weeks (can be given till one year of age)	0.5 ml	Intra-muscular	Antero-lateral side of mid-thigh
Rotavirus#	At 6 weeks, 10 weeks & 14 weeks (can be given till one year of age)	5 drops	Oral	Oral
IPV	Two fractional dose at 6 and 14 weeks of age	0.1 ml	Intra dermal two fractional dose	Intra-dermal: Right upper arm
Measles /MR 1st Dose§	9 completed months-12 months. (can be given till 5 years of age)	0.5 ml	Sub-cutaneous	Right upper Arm
JE - 1**	9 completed months-12 months.	0.5 ml	Sub-cutaneous	Left upper Arm
Vitamin A (1st dose)	At 9 completed months with measles-Rubella	1 ml (1 lakh IU)	Oral	Oral
For Children				
DPT booster-1	16-24 months	0.5 ml	Intra-muscular	Antero-lateral side of mid-thigh
Measles/ MR 2nd dose §	16-24 months	0.5 ml	Sub-cutaneous	Right upper Arm
OPV Booster	16-24 months	2 drops	Oral	Oral
JE-2	16-24 months	0.5 ml	Sub-cutaneous	Left Upper Arm
Vitamin A*** (2nd to 9th dose)	16-18 months. Then one dose every 6 months up to the age of 5 years.	2 ml (2 lakh IU)	Oral	Oral
DPT Booster-2	5-6 years	0.5 ml.	Intra-muscular	Upper Arm
TT	10 years & 16 years	0.5 ml	Intra-muscular	Upper Arm

- *Give TT-2 or Booster doses before 36 weeks of pregnancy. However, give these even if more than 36 weeks have passed. Give TT to a woman in labour, if she has not previously received TT.
- **JE Vaccine is introduced in select endemic districts after the campaign.
- *** The 2nd to 9th doses of Vitamin A can be administered to children 1-5 years old during biannual rounds, in collaboration with ICDS.
- #Phased introduction, at present in Andhra Pradesh, Haryana, Himachal Pradesh and Orissa from 2016 & expanded in Madhya Pradesh, Assam, Rajasthan, and Tripura in February 2017 and planned in Tamil Nadu & Uttar Pradesh in 2017.
- § Phased introduction, at present in five states namely Karnataka, Tamil Nadu, Goa, Lakshadweep and Puducherry. (As of Feb' 2017)

APPENDIX F

DEFINITIONS

Definitions

Health Indicators- Definitions				
1	Crude Birth Rate(CBR)	=	Number of Live birth during the year	X 1000
			Mid-year population	
2	General Fertility Rate(GFR)	=	Number of live births in a year	X 1000
			Mid-year female population in the age group (15-49) years	
3	Age Specific Fertility Rate(ASFR)	=	Number of live birth in a particular age group	X 1000
			Mid-year female population of the same age group	
4	Total Fertility Rate(TFR)	=	$5 \times \sum_{15-19}^{45-49} \text{ASFR for female live births}$	
5	Gross Reproduction Rate(GDR)	=	$\frac{5 \times \sum_{15-19}^{45-49} \text{ASFR for female live births}}{15-19}$	
6	Crude Death Rate(CDR)	=	Number of deaths during the year	X 1000
			Mid-year population	
7	Infant Mortality Rate (IMR)	=	Number of infant deaths during the year	X1000
			Number of live births during the year	
8	Neo-Natal Mortality Rate(NMR)	=	Number of infant deaths < than 29 days during the year	X1000
			Number of live births during the year	
9	Early neo- natal mortality rate	=	Number of infant deaths < than 7 days during the year	X1000
			Number of live births during the year	
10	Late neo- natal mortality rate	=	Number of infant deaths of 7 days to < than 29 days during the year	X1000
			Number of live births during the year	
11	Post neo- natal mortality rate	=	Number of infant deaths of 29 days to < than one year during the year	X1000
			Number of live births during the year	
12	Peri - natal mortality rate	=	Number of still births and infant deaths of < than 7 days during the year	X1000
			Number of live births and still births during the year	
13	Still birth rate	=	Number of still births during the year	X1000
			Number of live births and still births during the year	

14	Age Specific Mortality Rate(ASMR)	=	Number of death in a particular age group	X1000
			Number of population of same age group	
15	Age specific Marital Fertility Rate(ASMFR)	=	No. of live birth in a particular age group	X1000
			Midyear married female population of same age group	
16	General Marital Fertility Rate (GMFR)	=	No. of live birth in a year	X1000
			Midyear married female population of same age group (15-49)	
17	Total Marital Fertility rate(TMFR)	=	$\sum_{15-49} ASMFR$	
			$\times 1000$	
18	Child Mortality Rate	=	Number of Death of Children below the age of 5	X 1000
			Total Population of children below the age of 5	
19	Maternal Mortality Ratio (MMR)	=	Number of Deaths due to puerperal causes	X100000
			Number of Live Births	
20	% of Effective Couple Protection Rate	=	Number of Coup[les Effectively Protected	X100
			Total Number of Eligible Couples	
21	Life Expectancy at Birth	=	Total Person-years lived by the birth Cohort	X1000
			The size of birth Cohort	
22	Natural Growth Rate	=	$(P_1 - P_0)$	X 100
			$(P_1 - P_0)$ Population at Successive Decennial Censuses	