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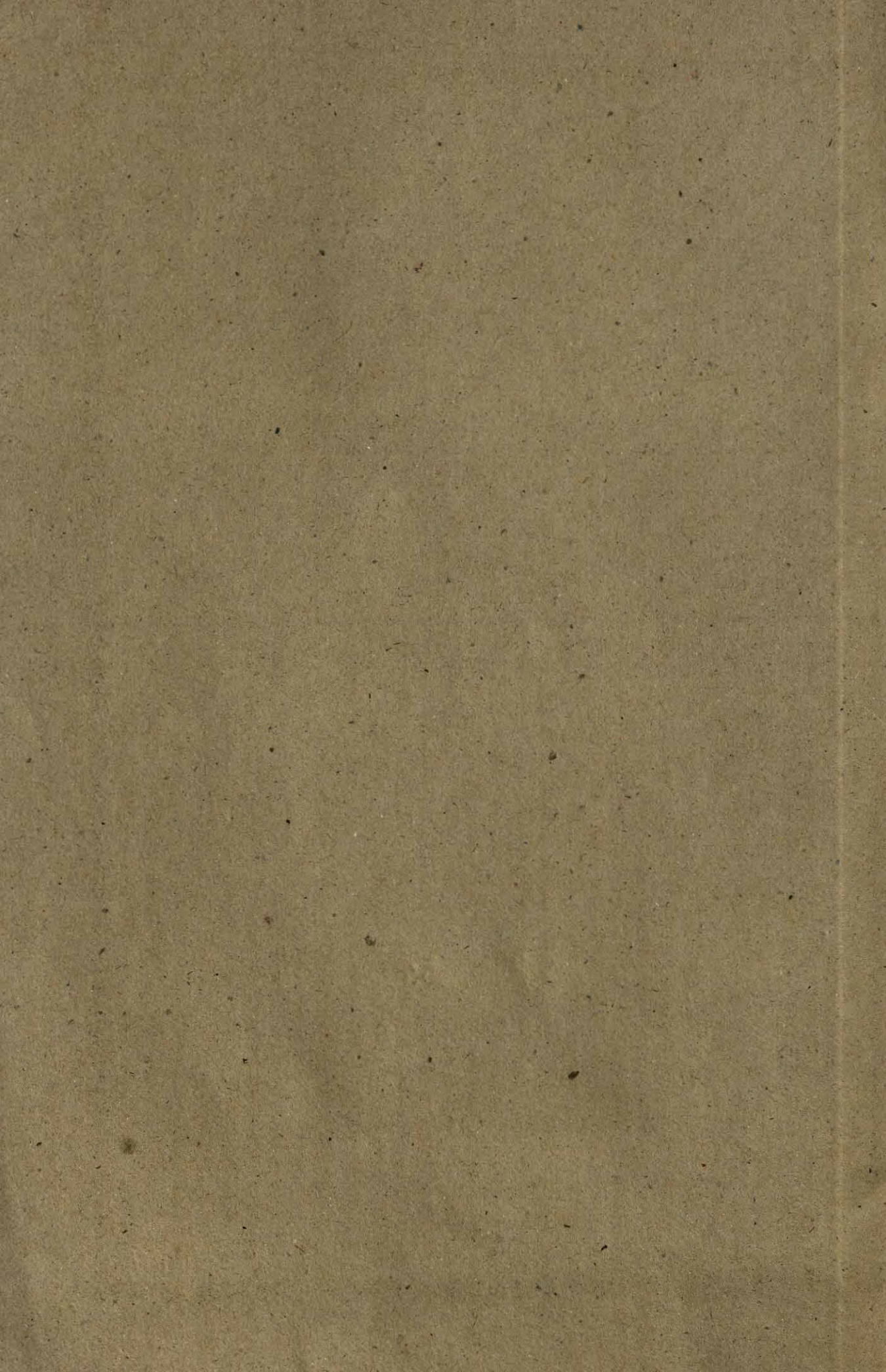
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**REPORT ON
MEDICAL CERTIFICATION OF
CAUSE OF DEATH
2002**

**Directorate of Economics and Statistics
Thiruvananthapuram, Kerala**

2008



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PREFACE

The scheme of Medical Certification of Cause of Death (MCCD) was introduced in the State as part of All India programme for improvement of Vital Statistics. The importance of Statistics on cause of death is well recognized and these data are in demand by health planners, administrators and medical professionals.

To obtain valuable data on the cause of death, the scheme was introduced in four Corporations viz. Thiruvananthapuram, Kollam, Kochi and Kozhikode and Alappuzha Municipality. Due to some technical reasons the data pertaining to Thiruvananthapuram Corporation has not been included in the report.

This Report was prepared by the Vital Statistics Unit of Directorate of Economics and Statistics under the effective supervision of the Additional Director Sri. D. Rajan. Smt. S. Leelamony, Deputy Director, Smt. K. Shailamma, Assistant Director and Sri M. N. Raju, Research Assistant have provided valuable contribution in the preparation of this report.

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Director.

Thiruvananthapuram.



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REPORT ON MEDICAL CERTIFICATION OF CAUSE OF DEATH 2002

Introduction

Mortality Statistics from an integral part of the Vital Statistical System. They are one of the basic components of population growth. The data on mortality is indispensable for demographic studies, formulating public health programmes, policy framing for insurance companies, etc. Further the cause specific mortality rates are key indicators of the health trends in the population and are provided on specific basis by the system of Medical Certification of Cause of Death.

The Registration of Birth and Death Act, 1969 contains the following sections:

Section 10 (2)

In any area the state Government having regard to the facilities available there in this behalf may require that a certificate as to the cause of death shall be obtained by Registrar from such persons and in such form as may be prescribed.

Section 10 (3)

Where the state Government has required under sub section (2) that a certificate as to cause of death shall be obtained in the event of the death of any person who during his last illness was attended by a medical practitioner. The Medical practitioner shall after the death of that person for the work will issue without charging any fee to the person required under this act to give information concerning the death, a certificate in the prescribed form stating to the best of his knowledge and belief the cause of death and the certificate shall be received and delivered by such person to the Registrar at the time of giving information concerning the death as required by this Act.

The reporting form for the registration of death has also an item for cause of death. However, this information in majority of cases is not authenticated by a medical practitioner. Owing to the difficulty in obtaining cause of death as medically certified, the Registrar General of India formulated the scheme Medical Certification of cause of death, which has been introduced in phases. For the time being it has been introduced in hospitals in urban areas which have been selected by the Chief Registrar of Birth and Death of the state.

Objectives

The main objectives of the scheme are the following:

- (1) to obtain reliable information on the underlying causes of death;
- (2) to pin point the leading cause of death for males and females;
- (3) to identify individual causes of death particularly among infants, mothers and the aged;

- (4) to study the mortality pattern of certain important diseases like tuberculosis, cancer, etc.;
- (5) to enable public health and medical authorities to undertake specific investigations and studies into the mortality pattern of disease for the evaluation and planning of health activities.

Methodology

The scheme envisages the collection of accurate data relating to all death in Medical Institutions in the Corporation area having facilities for inpatient treatment. The attending physician is required to furnish the data on cause of death in the prescribed form. The forms used for this purpose is Form 4 (institutional death) and Form 4A (non institutional death). The forms contain the details of the diseases such as name, normal residence, sex, age date of birth, marital status religion, occupation, immediate cause of death and whether the death associated with pregnancy and child birth. The data are scrutinized and cause of death are identified and coded by the Deputy Health Officers appointed for the purpose. Information of morbidity is not collected under the scheme of medical certification of cause of death.

Cause of Death

A cause of death is the disease abnormality, injury or poisoning that contributed directly or indirectly to death. A death often results from the combined effect of two or more conditions. These conditions may be unrelated, arising independently of each other, or they may be casually related to each other, that is, one condition may lead to a third condition and so on. The disease or injury which initiated the sequences of events will get selected for the purpose of tabulation.

Coding of M. C. C. D

Data on medically certified cause of death are tabulated according to International Classification of Diseases (ICD-10).

International Classification of Diseases (ICD-10).

It is a systematic recording based on, International standard diagnostic classification. Practical instructions and rules are adopted for reporting. Alphanumeric codes are used here.

ICD-10 Characteristics

Three-character code, further subdivided into ten character sub-categories, with the fourth character after a decimal. Coding for practical, epidemiological purpose rather than pure theoretical.

The following are the various chapters in this coding:

Chapter I	Certain infectious and parasitic diseases code	A00-B99
Chapter II	Neoplasm	C00-D48
Chapter III	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	D50-D89
Chapter IV	Endocrine, Nutritional and metabolic diseases	E00-E90
Chapter V	Mental & behavioral disorder due to psycho active substance	F00-F99
Chapter VI	Disease of nervous system	G00-G99
Chapter VII	Disease of the eye and Adnexa	H00-H59
Chapter VIII	Disease of the ear and mastoid process	H60-H95
Chapter IX	Disease of the circulatory system	I00-I99
Chapter X	Diseases of respiratory system	J00-J99
Chapter XI	Diseases of the digestive system	K00-K93
Chapter XII	Diseases of the skin and subcutaneous tissue	L00-L99
Chapter XIII	Diseases of musculoskeletal system and connective tissue	M00-M99
Chapter XIV	Diseases of the genito urinary system	N00-N99
Chapter XV	Pregnancy, Childbirth and Puerperium	O00-O99
Chapter XVI	Certain conditions originating in the perinatal period	P00-P96
Chapter XVII	Congenital malformation & deformities Chromosomal abnormalities	Q00-Q99
Chapter XVIII	Symptoms, signs and abnormal clinical laboratory findings not elsewhere classified	R00-R99
Chapter XIX	Injury, Poisoning and certain other consequences of external cause.	S00-T98
Chapter XX	External cause of morbidity and mortality	V01-Y98

Uses of Causes of death data

It is an important tool of obtaining authentic and scientific information regarding causes of mortality. MCCD data are of very much importance in the following situations.

- to study and explain level, trends and differentials in age-specific mortality
- to guide priorities for resource allocation and socio-medical research
- to monitor public health programmes
- to provide clues for epidemiological research.

Limitations

Scientific data is not fully obtained due to reasons such as under reporting of vital events, inadequacy of medically certified deaths, larger portions of the death attributed to servility ill defined and unknown causes of death, etc. Since these schemes covers only institutional death, which constitute only a portion of the total deaths, indication on causes of death from this system is not comprehensive.

Analysis of the data

This report contains statistics on death by causes, which occurred in the selected centers viz., Kollam, Kochi and Kozhikkode Corporations and Alappuzha Municipality during the year 2002. In this report medically certified deaths have been tabulated in conformity with the ICD-10. This report provides statistics on cause of death by cross classifying these by age and sex also.

As per 2001 census the population of Alappuzhua Municipality, having an area of 46.77 sq.km., was 177160 density of population works out as 3788/sq.km. During the year under report the number of Medically Certified Deaths verified and analysed were 1653.

The population of Kollam Corporation was 365880 as per latest population census with an area of 57.28 sq.km. and having density of population 6388/sq. km. During the year 2002 the number of Medically Certified Deaths verified and analysed were 1990 .

As per 2001 census the population of Kochi Corporation was 597566 with an area of 94.88 sq.km. having a density of population 6298/sq. km. During the year under report the number of Medically Certified Deaths verified and analysed were 4692.

The population of Kozhikkode Corporation was 437095 as per 2001 census with an area of 84.28 sq.km. and the density of population 5186/sq. km. During the year under report the number of Medically Certified Deaths verified and analysed were 6864.

Sex-wise Distribution of Deaths

During the year under report 1653 deaths were reported and verified in Alappuzha Municipality, out of which 964 (58.32%) were male and 689 (47.19%) were female deaths. For the previous year it was 2094, with 1314 (62.75%) male deaths and 780 (37.25%) female deaths.

In Kollam Corporation total deaths reported under the scheme was 1990, out of which 1247 (62.66%) were male deaths and 743 (37.34%) female deaths.

4692 deaths were verified in Kochi corporation. Out of this 2968 (63.26%) were male and 1724 (36.74%) were female deaths.

Total deaths reported under this scheme from Kozhikkode Corporation was 6864 out of which 4377 (63.77%) were male deaths and 2487 (36.23%) female deaths.

Major diseases

(1) Disease of the circulatory system code IX (I 00-I 99)

During year 2002, disease of the circulatory system has been reported as first major cause of death in all the centers. It includes causes like Heart attack, congestive and other heart disease. The percentage of deaths reported under this disease in Kollam, Kochi and Kozhikkode Corporations and Alappuzha Municipality were 44.98, 37.26, 28.47 and 25.47 respectively.

(2) Injury, Poisoning and certain other consequences of external cause Code XIX (S 00-T 98)

It include death due to burns and food poisoning, road and railway accidents, suicide, homicide and other violence, etc. The percentage of death reported under this category in Kollam, Kochi and Kozhikkode Corporations and Alappuzha Municipality were 9.00, 27.3, 52.41 and 11.29 respectively.

(3) Neoplasm Code II (C 00-D 48)

Neoplasm has been reported as the 3rd major cause of death in respect of Kochi and Kozhikkode Corporations. In Alappuzha Municipality and Kollam Corporation it stood in the 4th position. This major group comprises of cancer. 1922 deaths were reported from the four centers. The percentage of death in this category in Kollam, Kochi and Kozhikkode Corporations and Alappuzha Municipality were 8.79, 38.92, 43.29 and 9.00 respectively.

(4) Diseases of the digestive system code XI (K 00-K 92)

This major cause of death came in the 7th place in Kollam, Kochi and Kozhikkode Corporations and 8th place in Alappuzha Municipality. This major cause group comprises of peptic or gastric ulcer. During the year under report a total of 793 death were reported from the centers. 8.95, 29.13, 50.44 and 11.48 respectively were the

percentage of death reported under this category in Kollam, Kochi and Kozhikkode Corporations and Alappuzha Municipality .

(5) Certain infectious and parasitic diseases code I (A 00-B 99)

This major group comprises of cholera, Typhoid, Para typhoid, Dysentery, Diarrhea and Gastro-enteritis, TB of lungs, Leprosy, Tetanus, Neo-natum and other Tetanus, Whooping Cough, Poliomyelitis and Rabies. 1327 deaths were reported from the four centers. This major cause of death stood in the 8th places in respect of Kollam Corporation, 5th place in Kozhikkode Corporation and 3rd place both in Kochi Corporation and Alappuzha Municipality. Percentage of deaths reported in this category in Kollam, Kochi and Kozhikkode Corporations and Alappuzha Municipality were 4.75, 32.78, 47.1 and 15.37 respectively.

(6) Diseases of respiratory system Code X (J 00-J 98)

Diseases of the respiratory system comprises of Influenza and pneumonia, bronchitis, broncholitis, Asthma, etc. Total death reported in this category was 1935 and it stood in the 2nd place. This category of diseases came in the 2nd place in respect of Kollam, Kozhikkode Corporations and Alappuzha Municipality. It came in the 4th place in Kochi Corporation. Percentage of death reported in this category in the corporations of Kollam, Kochi and Kozhikkode and Alappuzha Municipality were 16.38, 21.34, 48.89 and 13.39 respectively.

(7) Endocrine, Nutritional and Metabolic diseases Code IV (E 00-E 89)

This category of cause of death comprises of disorders of thyroid gland, Diabetes mellitus, disorders of glucose regulation and pancreatic internal secretion, disorders of other endocrine glands; Malnutrition, etc. During the year under report a total of 1050 death were reported from the centers .This major cause of death came in 3rd place in Kollam Corporation and 5th place in Kochi Corporation. In Alappuzha Municipality it came in 6th position and Kozhikkode Corporation in the 8th position. The percentage of death reported in this category in Kollam, Kochi and Kozhikkode Corporations and Alappuzha Municipality were 25.24, 34.00, 29.33 and 11.43 respectively.

(8) Certain Conditions originating in the perinatal period—Code XVI (P 00 - P 96)

This major cause of death comprises of Fetus and newborn affected by maternal factors and by complications of pregnancy labour and delivery, Disorders related to length of gestation and fetal growth, Birth Trauma, Haemorrhagic and hematological disorders of fetus and newborn, etc. 1102 deaths were reported under this category. This category of cause of death came in the 8th place in respect of Kochi Corporations, 5th place both in Kollam Corporation and Alappuzha Municipality and 4th place in Kozhikkode Corporation. The percentage of deaths reported in this category in the Corporations of Kollam, Kochi and Kozhikkode and Alappuzha Municipality were 7.62, 16.88, 60.53 and 14.97 respectively.

(9) Disease of the nervous system VI Code (G 00-G 98)

This major cause group consist of Epilepsy, Parkinson's disease, Alzhuymers disease, Migraine. A total deaths of 475 were reported due to this reason and the percentage under this category was 3.13.

(10) Diseases of the genito urinary system Code XIV (N 00-N 99)

Diseases of the genito urinary system stood in the 9th position. This group consist of glomerular diseases, diseases of the urinary system and diseases of male and female genital organs. The percentage of death reported under the category was 3.61.

Death According to Age group

Alappuzha Municipality

The percentage of death for the age group below 1 year was 12.34 against 8.21 for the previous year 2001. In the age group 1-14, percentage of death was 2.30. The percentage of death among the age group 15-44 was 17.54 where as that for the age group 45 and above was 67.45.

The main cause of death among below 1 year age group was certain conditions originating in the perinatal period. About 84.31% of death falls under this category. The major killer diseases in the age group 1-14 was diseases due to respiratory system. In the age group 15 to 44 years, the major killer disease was injury, poisoning and certain other consequences of external cause. The main cause of death among the age group 45 and above due to disease of circulatory system.

Kollam Corporation

The percentage of infant death was 5.78. In the age group 1-14 percentage of death was 0.40, which is observed as the least. The percentage of death among the age group 15-44 and 45 and above were 8.14 and 85.68 respectively.

The main cause of death among below 1 year age group was certain conditions originating in the perinatal period. 73.04% death falls under this category. Diseases due to respiratory system was the main reason for deaths in the age group 1-14 and it is reported only for females. The major killer diseases in the age group 15-44 and 45 and above was disease of the circulatory system.

Kochi Corporation

6.95% and 1.51% of deaths were reported from the age group below 1 year and 1-14 respectively. The percentage of death in the age group 15-44 was 15.43 and 45 and above it was 76.11

The major killer diseases in the age group below 1 year was certain conditions originating in the perinatal period. 57.06% deaths were occurred due to this reason. Then comes the disease of the nervous system and certain infectious and parasitic

diseases. Disease of the circulatory system was the main reason for death in the age group 1-14, 15-44 and 45 and above. The percentage of death due to this disease in the above age group was 29.58, 31.22 and 41 respectively.

Kozhikkode Corporation

For the age group below 1 year the percentage of death was 13.80. In the age group 1-14 it was 3.74. The percentage of death in the age group of 15-44 and 45 and above was 15.69 and 66.77 respectively.

The main cause of death among the age group below 1 year was certain conditions originating in the perinatal period. 70.12% death falls under this category. In the age group 1 - 14 diseases due to respiratory system was the main reason for death then came disease of nervous system. The data reveals that injury, poisoning and certain other consequences of external cause was the main reason for death in the age group 15-44. Majority of the deaths in the age group 45 and above were occurred due to diseases of circulatory system.

Conclusion

The disease of the circulatory system, the major group of cause of death emerged as the first in all the centres viz., Alappuzha Municipality and Kozhikkode, Kollam and Kochi Corporations with 8.39%, 38.94%, 17.84% and 34.84% respectively. Diseases of respiratory system came in the second position. Deaths due to pregnancy, childbirth and puerperium, congenital malformation and deformities, chromosomal abnormalities and diseases of musculoskeletal system and connective tissue were reported only from Kochi Corporation. No deaths were reported due to Mental & behavioral disorder due to psycho active substance, Disease of the eye and Adnexa, Disease of the ear & mastoid and Diseases of the skin and subcutaneous tissue from the centers. Another reason for death reported from all the centres was Neoplasm.

Among the four centres, Kollam Corporation has the lowest percentage of death in the age group below 1 year, 1-14 and 15-44 and the highest percentage in the age group 45 and above. Highest percentage of Infant death is reported from Kozhikkode Corporation.

At present the scheme is implemented only in the selected five centres of the state. In order to obtain a clear picture about the causes of deaths, the coverage of scheme will be extended to all urban and rural areas.

Leading Cause of Deaths in Kollam, Kochi and Kozhikkode Corporations and Alappuzha Municipality – 2002

Sl. No.	Cause of Death	No. of Deaths	Percent age
1	Disease of the circulatory system	5018	33.02
2	Diseases of respiratory system	1935	12.73
3	Neoplasms	1922	12.65
4	Certain infectus and parasitic diseases	1327	8.73
5	Certain conditions originating in the perinatal period	1102	7.25
6	Endocrine, Nutritional & metabolic diseases	1050	6.91
7	Injury, Poisoning & certain other consequences of external cause.	912	6.00
8	Diseases of the digestive system	793	5.22
9	Diseases of the genito urinary system	549	3.61
10	Disease of nervoud system	475	3.13
11	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	107	0.70
12	Pregnancy, Childbirth & Pueperium	6	0.04
Total		15196	100.00

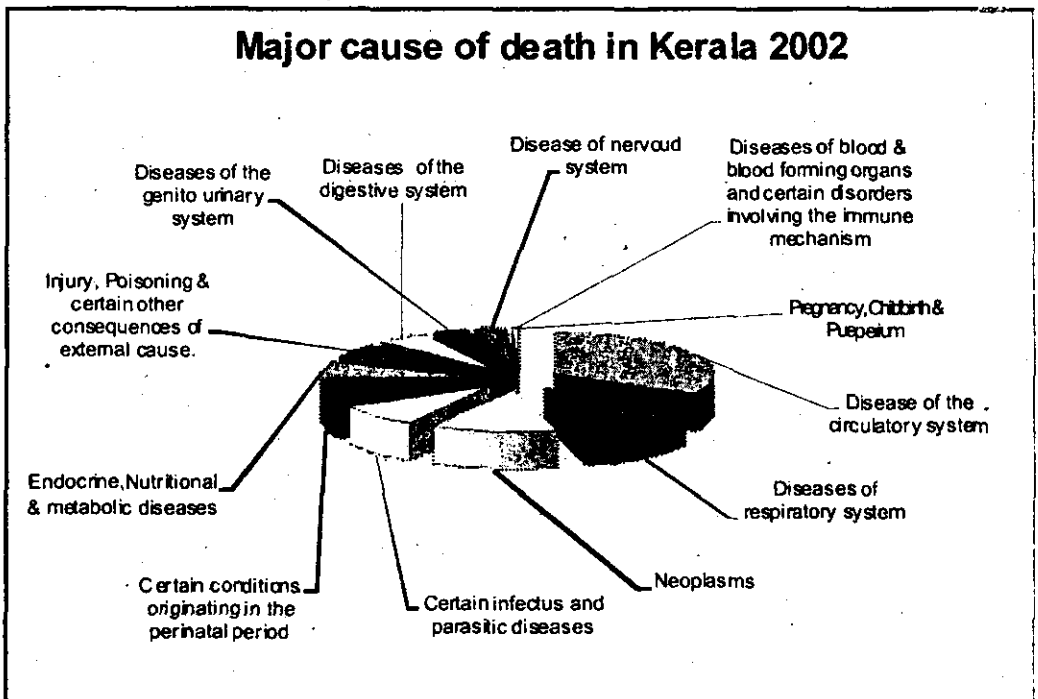


TABLE 1

Deaths based on Major Disease—Alappuzha Municipality, Kollam, Kochi and Kozhikode Corporations—2002

Sl. No.	Code	Headings	Total		Alappuzha		Kollam		Kochi		Kozhikode	
			No.	%	No.	%	No.	%	No.	%	No.	%
1	IX (I00-I99)	Disease of the circulatory system	5018	33.02	421	25.47	895	44.97	1748	37.25	1954	28.47
2	X (J00-J98)	Diseases of respiratory system	1935	12.73	259	15.67	317	15.93	413	8.8	946	13.78
3	II (C00-D48)	Neoplasms	1922	12.65	173	10.47	169	8.49	748	15.94	832	12.12
4	I(A00-B99)	Certain infectious and parasitic diseases	1327	8.73	204	12.34	63	3.17	435	9.27	625	9.11
5	XVI (P00-P96)	Certain conditions originating in the perinatal period	1102	7.25	165	9.98	84	4.22	186	3.96	667	9.72
6	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	1050	6.91	120	7.26	265	13.32	357	7.61	308	4.49
7	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	912	6.00	103	6.23	82	4.12	249	5.31	478	6.96
8	XII(K00-K92)	Diseases of the digestive system	793	5.22	91	5.51	71	3.57	231	4.92	400	5.83
9	XIV(N00-N99)	Diseases of the genito urinary system	549	3.61	35	2.12	33	1.66	180	3.84	301	4.39
10	VI(G00-G98)	Disease of nervous system	475	3.13	79	4.78	4	0.2	87	1.85	305	4.44
11	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	107	0.70	3	0.18	7	0.35	49	1.04	48	0.7
12	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium	6	0.04					6	0.13		
13	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities	2	0.01					2	0.04		
14	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue	1	0.01					1	0.02		
15	V(F00-F99)	Mental & behavioral disorder due to psycho active substance										
16	VII(H00-H59)	Disease of the eye & Adnexa										
17	VIII(H60-H95)	Disease of the ear & mastoid										
18	XII(L00-L98)	Diseases of the skin & subcutaneous tissue										
		Total	15199	100	1653	100	1990	100	4692	100	6864	100

TABLE 2
Medically Certified Deaths based on major disease in Alappuzha Municipality—2002

Sl.No.	Code	Headings	Total	%
1	IX(I00-I99)	Disease of the circulatory system	421	25.47
2	X(J00-J98)	Diseases of respiratory system	259	15.67
3	I(A00-B99)	Certain infectious and parasitic diseases	204	12.34
4	II(C00-D48)	Neoplasms	173	10.47
5	XVI (P00-P96)	Certain conditions originating in the perinatal period	165	9.98
6	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	120	7.26
7	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	103	6.23
8	XI(K00-K92)	Diseases of the digestive system	91	5.51
9	VI(G00-G98)	Disease of nervous system	79	4.78
10	XIV(N00-N99)	Diseases of the genito urinary system	35	2.12
11	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	3	0.18
12	V(F00-F99)	Mental & behavioral disorder due to psycho active substance		
13	VII(H00-H59)	Disease of the eye & Adnexa		
14	VIII(H60-H95)	Disease of the ear & mastoid		
15	XII(L00-L98)	Diseases of the skin & subcutaneous tissue		
16	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue		
17	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium		
18	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities		
		Total	1653	100

TABLE 3
Sex-wise details of Medically Certified Deaths in Alappuzha Municipality—2002

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00-B99)	Certain infectious and parasitic diseases	112	11.62	92	13.35	204	12.34
2	II(C00-D48)	Neoplasms	98	10.17	75	10.89	173	10.47
3	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	2	0.21	1	0.15	3	0.18
4	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	66	6.85	54	7.84	120	7.26
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	36	3.73	43	6.24	79	4.78
7	VII(H00-H59)	Disease of the eye & Adnexa						
8	VIII(H60-H95)	Disease of the ear & mastoid						
9	IX(I00-I99)	Disease of the circulatory system	264	27.39	157	22.79	421	25.47
10	X(J00-J98)	Diseases of respiratory system	147	15.25	112	16.26	259	15.67
11	XI(K00-K92)	Diseases of the digestive system	58	6.02	33	4.79	91	5.51
12	XII(L00-L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	26	2.70	9	1.31	35	2.12
15	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium		0.00		0.00		0.00
16	XVI (P00-P96)	Certain conditions originating in the perinatal period	86	8.92	79	11.47	165	9.98
17	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	69	7.16	34	4.93	103	6.23
		Total	964	100	689	100	1653	100

TABLE 4

Death According to Age Group

Alappuzha Municipality 2002

Sl. No	Age Group	No.	%
1	Below 1 Year	204	12.34
2	1-14	38	2.30
3	15-44	290	17.54
4	45 and Above	1115	67.45
5	Not stated	6	0.36
Total		1653	100

TABLE 5

Sex-wise and Age-wise distribution of Medically Certified Deaths in Alappuzha Municipality 2002—Below 1 Year

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	2	1.96	4	3.92	6	2.94
2	II(C00 - D48)	Neoplasms	1	0.98			1	0.49
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism						
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases			1	0.98	1	0.49
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	2	1.96	8	7.84	10	4.90
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	2	1.96	4	3.92	6	2.94
10	X(J 00 - J 98)	Diseases of respiratory system	7	6.86	5	4.90	12	5.88
11	XI(K00 - K92)	Diseases of the digestive system						
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	1	0.98	1	0.98	2	0.98
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	86	84.31	79	77.45	165	80.88
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	1	0.98			1	0.49
		Total	102	100	102	100	204	100

TABLE 6
Sex-wise and Age-wise distribution of 1 Medically Certified Deaths in Alappuzha Municipality 2002—1 to 14 years

Sl. No.	Code	Headings	Male	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & Parasitic diseases	4	4	21.05	8	21.05
2	II(C00 - D48)	Neoplasms		2	10.53	2	5.26
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism					
4	IV(E00 - E89)	Endocrine, Nutritional & Metabolic diseases					
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance					
6	VI(G00 - G98)	Diseases of the nervous system	5	1	26.32	6	15.79
7	VII(H00 - H59)	Disease of the Eye & Adnexa					
8	VIII(H60 - H95)	Disease of the Ear & Mastoid					
9	IX(I00 - I99)	Disease of the circulatory system	4	2	21.05	6	15.79
10	X(J00 - J98)	Diseases of Respiratory system	4	9	21.05	13	34.21
11	XI(K00 - K92)	Diseases of the digestive system					
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue					
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue					
14	XIV(N00 - N99)	Diseases of the genito urinary system					
15	XV(O00 - O99)	Pregnancy, Childbirth & Puerperium					
16	XVI(P00 - P98)	Certain conditions originating in the perinatal period					
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities					
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified					
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	2	1	10.53	3	7.89
		Total	19	19	100	38	100

TABLE 7
Sex-wise and Age-wise distribution of Medically Certified Deaths in Alappuzha Municipality 2002—15 to 44 years

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	31	17.71	28	24.35	59	20.34
2	II(C00 - D48)	Neoplasms	15	8.57	12	10.43	27	9.31
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism						
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	11	6.29	8	6.96	19	6.55
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	10	5.71	6	5.22	16	5.52
7	VII(H00 - H59)	Disease of the eye & adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I00 - I 99)	Disease of the circulatory system	27	15.43	12	10.43	39	13.45
10	X(J 00 - J 98)	Diseases of respiratory system	23	13.14	22	19.13	45	15.52
11	XI(K00 - K92)	Diseases of the digestive system	7	4.00	3	2.61	10	3.45
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	10	5.71	2	1.74	12	4.14
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	41	23.43	22	19.13	63	21.72
		Total	175	100	115	100	290	100

TABLE 8
Sex-wise and Age-wise distribution of Medically Certified Deaths in Alappuzha Municipality 2002—45 and Above

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	75	11.23	50	11.19	125	11.21
2	II(C00 - D48)	Neoplasms	82	12.28	61	13.65	143	12.83
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	2	0.30	1	0.22	3	0.27
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	55	8.23	45	10.07	100	8.97
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	19	2.84	28	6.26	47	4.22
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	231	34.58	139	31.10	370	33.18
10	X(J 00 - J 98)	Diseases of respiratory system	113	16.92	76	17.00	189	16.95
11	XI(K00 - K92)	Diseases of the digestive system	51	7.63	30	6.71	81	7.26
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	15	2.25	6	1.34	21	1.88
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	25	3.74	11	2.46	36	3.23
		Total	668	100	447	100	1115	100

TABLE 9

Medically Certified Deaths based on major disease in Kollam Corporation 2002

Sl.No.	Code	Headings	Total	%
1	IX(I00-I99)	Disease of the circulatory system	895	44.97
2	X(J00-J98)	Diseases of respiratory system	317	15.93
3	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	265	13.32
4	II(C00-D48)	Neoplasms	169	8.49
5	XVI (P00-P96)	Certain conditions originating in the perinatal period	84	4.22
6	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	82	4.12
7	XI(K00-K92)	Diseases of the digestive system	71	3.57
8	I(A00-B99)	Certain infectious and parasitic diseases	63	3.17
9	XIV(N00-N99)	Diseases of the genito urinary system	33	1.66
10	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	7	0.35
11	VI(G00-G98)	Disease of nervous system	4	0.20
12	V(F00-F99)	Mental & behavioral disorder due to psycho active substance.		
13	VII(H00-H59)	Disease of the eye & Adnexa		
14	VIII(H60-H95)	Disease of the ear & mastoid		
15	XII(L00-L98)	Diseases of the skin & subcutaneous tissue		
16	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue		
17	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium		
18	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities		
		Total	1990	100

TABLE 10

Death According to Age Group

Kollam Corporation 2002

Sl. No	Age Group	No.	%
1	Below 1 Year	115	5.78
2	1-14	8	0.40
3	15-44	162	8.14
4	45 and Above	1705	85.68
5	Not stated		
Total		1990	100

TABLE 11
Sex-wise details of Medically Certified Deaths in Kollam Corporation 2002

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	43	3.45	20	2.69	63	3.17
2	II(C00 - D48)	Neoplasms	95	7.62	74	9.96	169	8.49
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	3	0.24	4	0.54	7	0.35
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	159	12.75	106	14.27	265	13.32
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	2	0.16	2	0.27	4	0.20
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	547	43.87	348	46.84	895	44.97
10	X(J 00 - J 98)	Diseases of respiratory system	210	16.84	107	14.40	317	15.93
11	XI(K00 - K92)	Diseases of the digestive system	53	4.25	18	2.42	71	3.57
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	20	1.60	13	1.75	33	1.66
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium				0.00		
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	53	4.25	31	4.17	84	4.22
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	62	4.97	20	2.69	82	4.12
		Total	1247	100	743	100	1990	100

TABLE 12
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kollam Corporation 2002—Below 1 Year

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious and parasitic diseases	2	3.08	1	2.00	3	2.61
2	II(C00 - D48)	Neoplasms						
3	III(D50 - D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism						
4	IV(E00 - E89)	Endocrine, Nutritional and metabolic diseases						
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system			1	2.00	1	0.87
7	VII(H00 - H59)	Disease of the eye and Adnexa						
8	VIII(H60 - H95)	Disease of the ear and mastoid						
9	IX(I00 - I99)	Disease of the circulatory system	2	3.08	3	6.00	5	4.35
10	X(J00 - J98)	Diseases of respiratory system	8	12.31	14	28.00	22	19.13
11	XI(K00 - K92)	Diseases of the digestive system						
12	XII(L00 - L98)	Diseases of the skin and subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system						
15	XV(O00 - O99)	Pregnancy, Childbirth and Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	53	81.54	31	62.00	84	73.04
17	XVII(Q00 - Q99)	Congenital malformation & deformities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning and certain other consequences of external cause						
		Total	65	100	50	100	115	100

TABLE 13

Sex-wise and Age-wise distribution of Medically Certified deaths in Kollam Corporation 2002—1 to 14 years

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious and parasitic diseases	1	50.00	1	16.67	2	25.00
2	II(C00 - D48)	Neoplasms						
3	III(D50 - D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism						
4	IV(E00 - E89)	Endocrine, Nutritional and metabolic diseases						
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	1	50.00			1	12.50
7	VII(H00 - H59)	Disease of the eye and Adnexa						
8	VIII(H60 - H95)	Disease of the ear and mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system						
10	X(J 00 - J 98)	Diseases of respiratory system			5	83.33	5	62.50
11	XI(K00 - K92)	Diseases of the digestive system						
12	XII(L00 - L98)	Diseases of the skin and subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system and connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system						
15	XV(O 00 - O 99)	Pregnancy, Childbirth and Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00 - Q99)	Congenital malformation and deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs and abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning and certain other consequences of external cause						
		Total	2	100	6	100	8	100

TABLE 14

Sex-wise and age-wise distribution of Medically Certified Deaths in Kollam Corporation 2002—15 to 44 years

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	5	4.63	6	11.11	11	6.79
2	II(C00 - D48)	Neoplasms	6	5.56	9	16.67	15	9.26
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism						
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	10	9.26	3	5.56	13	8.02
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	1	0.93			1	0.62
7	VII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	34	31.48	12	22.22	46	28.40
10	X(J 00 - J 98)	Diseases of respiratory system	17	15.74	9	16.67	26	16.05
11	XI(K00 - K92)	Diseases of the digestive system	5	4.63	2	3.70	7	4.32
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	4	3.70	1	1.85	5	3.09
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	26	24.07	12	22.22	38	23.46
		Total	108	100	54	100	162	100

TABLE 15
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kollam Corporation 2002—45 and Above

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious and parasitic diseases	35	3.26	12	1.90	47	2.76
2	II(C00 - D48)	Neoplasms	89	8.30	65	10.27	154	9.03
3	III(D50 - D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	3	0.28	4	0.63	7	0.41
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	149	13.90	103	16.27	252	14.78
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system			1	0.16	1	0.06
7	VII(H00 - H59)	Disease of the eye and Adnexa						
8	VIII(H60 - H95)	Disease of the ear and mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	511	47.67	333	52.61	844	49.50
10	X(J 00 - J 98)	Diseases of respiratory system	185	17.26	79	12.48	264	15.48
11	XI(K00 - K92)	Diseases of the digestive system	48	4.48	16	2.53	64	3.75
12	XII(L00 - L98)	Diseases of the skin and subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	16	1.49	12	1.90	28	1.64
15	XV(O 00 - O 99)	Pregnancy, Childbirth and Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	36	3.36	8	1.26	44	2.58
		Total	1072	100	633	100	1705	100

TABLE 16

Medically Certified Deaths based on ajor disease in Kochi Corporation 2002

Sl.No.	Code	Headings	Total	%
1	IX(I00-I99)	Disease of the circulatory system	1748	37.25
2	II(C00-D48)	Neoplasms	748	15.94
3	I(A00-B99)	Certain infectious and parasitic diseases	435	9.27
4	X(J00-J98)	Diseases of respiratory system	413	8.8
5	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	357	7.61
6	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	249	5.31
7	XI(K00-K92)	Diseases of the digestive system	231	4.92
8	XVI (P00-P96)	Certain conditions originating in the perinatal period	186	3.96
9	XIV(N00-N99)	Diseases of the genito urinary system	180	3.84
10	VI(G00-G98)	Disease of nervous system	87	1.85
11	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	49	1.04
12	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium	6	0.13
13	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities	2	0.04
14	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue	1	0.02
15	V(F00-F99)	Mental & behavioral disorder due to psycho active substance		
16	VII(H00-H59)	Disease of the eye & Adnexa		
17	VIII(H60-H95)	Disease of the ear & mastoid		
18	XII(L00-L98)	Diseases of the skin & subcutaneous tissue		
		Total	4692	100

TABLE 17

Death According to Age Group

Kochi Corporation 2002

Sl. No.	Age Group	No.	%
1	Below 1 Year	326	6.95
2	1-14	71	1.51
3	15-44	724	15.43
4	45 and Above	3571	76.11
5	Not stated		
	Total	4692	100.00

TABLE 18
Sex-wise details of Medically Certified Deaths in Kochi Corporation 2002

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00-B99)	Certain infectious and parasitic diseases	288	9.70	147	8.53	435	9.27
2	II(C00-D48)	Neoplasms	464	15.23	284	16.47	748	15.94
3	III(D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	26	0.88	23	1.33	49	1.04
4	IV(E00-E89)	Endocrine, Nutritional and metabolic diseases	205	6.91	152	8.82	357	7.61
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	54	1.82	33	1.91	87	1.85
7	VII(H00-H59)	Disease of the eye and Adnexa						
8	VIII(H60-H95)	Disease of the ear and mastoid						
9	IX(I00-I99)	Disease of the circulatory system	1096	36.93	652	37.82	1748	37.25
10	X(J00-J98)	Diseases of respiratory system	245	8.25	168	9.74	413	8.80
11	XI(K00-K92)	Diseases of the digestive system	157	5.29	74	4.29	231	4.92
12	XII(L00-L98)	Diseases of the skin and subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue	1	0.03			1	0.02
14	XIV(N00-N99)	Diseases of the genito urinary system	125	4.21	55	3.19	180	3.84
15	XV(O 00-O 99)	Pregnancy, Childbirth and Puerperium			6	0.35	6	0.13
16	XVI (P00-P96)	Certain conditions originagting in the perinatal period	116	3.91	70	4.06	186	3.96
17	XVII(Q00-Q99)	Congenital malformation and deformities Chromosomal abnormalities	1	0.03	1	0.06	2	0.04
18	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	190	6.40	59	3.42	249	5.31
		Total	2968	100.00	1724	100.00	4692	100.00

TABLE 19
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kochi Corporation 2002—Below 1 year

Sl.No	Code	Headings	Male	%	Female	%	Total	%
1	II(A00-B99)	Certain infectious and parasitic diseases	26	12.87	13	10.48	39	11.96
2	II(C00-D48)	Neoplasms	2	0.99	2	1.61	4	1.23
3	III(D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	1	0.50	0	0.00	1	0.31
4	IV(E00-E89)	Endocrine, Nutritional and metabolic diseases	9	4.46	6	4.84	15	4.60
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance	21	10.40	16	12.90	37	11.35
6	VI(G00-G98)	Disease of nervous system	24	11.88	16	12.90	40	12.27
7	VII(H00-H59)	Disease of the eye and Adnexa						
8	VIII(H60-H95)	Disease of the ear and mastoid						
9	IX(I00-I99)	Disease of the circulatory system						
10	X(J00-J98)	Diseases of respiratory system						
11	XI(K00-K92)	Diseases of the digestive system						
12	XII(L00-L98)	Diseases of the skin and subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	2	0.99	0	0.00	2	0.61
15	XV(O 00-O 99)	Pregnancy, Childbirth and Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period	116	57.43	70	56.45	186	57.06
17	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities	1	0.50	1	0.81	2	0.61
18	XVIII(R00-R99)	Symptoms, signs and abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.						
		Total	202	100.00	124	100.00	326	100.00

TABLE 20
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kochi Corporation 2002— 1 to 14 years

Sl.No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00-B99)	Certain infectious and parasitic diseases	6	13.33	3	11.54	9	12.68
2	II(C00-D48)	Neoplasms	2	4.44	2	7.69	4	5.63
3	III(D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism			1	3.85	1	1.41
4	IV(E00-E89)	Endocrine, Nutritional and metabolic diseases						
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervours system	5	11.11	2	7.369	7	9.86
7	VII(H00-H59)	Disease of the eye and Adnexa						
8	VIII(H60-H96)	Disease of the ear and mastoid						
9	IX(I00-I99)	Disease of the circulatory system	12	26.67	9	34.62	21	29.58
10	X(J00-J98)	Diseases of respiratory system	6	13.33	4	15.38	10	14.08
11	XI(K00-K92)	Diseases of the digestive system	2	4.44			2	2.82
12	XII(L00-L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system			1	3.85	1	1.41
15	XV(O 00-O 99)	Pregnancy, Childbirth and Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00-Q99)	Congenital malformation and deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning and certain other consequences of external cause.	12	26.67	4	15.38	16	22.54
		Total	45	100.00	26	100.00	71	100.00

TABLE 21
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kochi Corporation 2002—15 to 44 years

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00-B99)	Certain infectious and parasitic diseases	76	17.43	49	17.01	125	17.27
2	II(C00-D48)	Neoplasms	36	8.26	46	15.97	82	11.33
3	III(D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	2	0.46	5	1.74	7	0.97
4	IV(E00-E89)	Endocrine, Nutritional and metabolic diseases	8	1.83	3	1.04	11	1.52
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	18	4.13	10	3.47	28	3.87
7	VII(H00-H59)	Disease of the eye and Adnexa						
8	VIII(H60-H95)	Disease of the ear and mastoid						
9	IX(I00-I99)	Disease of the circulatory system	133	30.50	93	32.29	226	31.22
10	X(J00-J98)	Diseases of respiratory system	32	7.34	23	7.99	55	7.60
11	XI(K00-K92)	Diseases of the digestive system	25	5.73	8	2.78	33	4.56
12	XII(L00-L98)	Diseases of the skin and subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue	1	0.23			1	0.14
14	XIV(N00-N99)	Diseases of the genito urinary system	20	4.59	12	4.17	32	4.42
15	XV(O 00-O 99)	Pregnancy, Childbirth and Puerperium			6	2.08	6	0.83
16	XVI (P00-P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00-Q99)	Congenital malformation and deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs and abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning and certain other consequences of external cause.	85	19.50	33	11.46	118	16.30
		Total	436	100.00	288	100.00	724	100.00

TABLE 22
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kochi Corporation 2002—45 and Above

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00-B99)	Certain infectious and parasitic diseases	180	7.88	82	6.38	262	7.34
2	II(C00-D48)	Neoplasms	424	18.56	234	18.20	658	18.43
3	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	24	1.05	17	1.32	41	1.15
4	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	196	8.58	149	11.59	345	9.66
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	22	0.96	15	1.17	37	1.04
7	VII(H00-H59)	Disease of the Eye & Adnexa						
8	VIII(H60-H95)	Disease of the Ear & Mastoid						
9	IX(I00-I99)	Disease of the circulatory system	930	40.70	534	41.52	1464	41.00
10	X(J00-J98)	Diseases of respiratory system	183	8.01	125	9.72	308	8.63
11	XI(K00-K92)	Diseases of the digestive system	130	5.69	66	5.13	196	5.49
12	XII(L00-L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	103	4.51	42	3.27	145	4.06
15	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	93	4.07	22	1.71	115	3.22
		Total	2285	100.00	1286	100.00	3571	100.00

TABLE 23
Medically Certified Deaths based on major disease in Kozhikkode Corporation 2002

Sl.No.	Code	Headings	Total	%
1	IX(I00-I99)	Disease of the circulatory system	1904	27.98
2	X(J00-J98)	Diseases of respiratory system	946	13.90
3	II(C00-D48)	Neoplasms	834	12.25
4	XVI (P00-P96)	Certain conditions originating in the perinatal period	667	9.80
5	I(A00-B99)	Certain infectious and parasitic diseases	624	9.17
6	XIX(S00-T98)	Injury, Poisoning & certain other consequences of external cause.	478	7.02
7	XI(K00-K92)	Diseases of the digestive system	400	5.88
8	IV(E00-E89)	Endocrine, Nutritional & metabolic diseases	308	4.53
9	XIV(N00-N99)	Diseases of the genito urinary system	301	4.42
10	VI(G00-G98)	Disease of nervous system	296	4.35
11	III(D50-D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	48	0.71
12	V(F00-F99)	Mental & behavioral disorder due to psycho active substance		
13	VII(H00-H59)	Disease of the eye & Adnexa		
14	VIII(H60-H95)	Disease of the ear & mastoid		
15	XII(L00-L98)	Diseases of the skin & subcutaneous tissue		
16	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue		
17	XV(O 00-O 99)	Pregnancy, Childbirth & Puerperium		
18	XVII(Q00-Q99)	Congenital malformation & deformities Chromosomal abnormalities		
		Total	6806	100

TABLE 24

Death According to Age Group

Kozhikkode Corporation 2002

Sl. No.	Age Group	No.	%
1	Below 1 Year	947	13.80
2	1-14	257	3.74
3	15-44	1077	15.69
4	45 and Above	4583	66.77
	Total	6864	100.00

TABLE 25

Sex-wise details of Medically Certified Deaths in Kozhikkode Corporation 2002

Sl. No.	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious and parasitic diseases	394	9.00	231	9.29	625	9.11
2	II(C00 - D48)	Neoplasms	565	12.91	267	10.74	832	12.12
3	III(D50 - D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	30	0.69	18	0.72	48	0.70
4	IV(E00 - E89)	Endocrine, Nutritional and metabolic diseases	191	4.36	117	4.70	308	4.49
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	162	3.70	143	5.75	305	4.44
7	VII(H00 - H59)	Disease of the eye and Adnexa						
8	VIII(H60 - H95)	Disease of the ear and mastoid						
9	IX(I 00 - I 99)	Disease of the circulatory system	1224	27.96	730	29.35	1954	28.47
10	X(J 00 - J 98)	Diseases of respiratory system	645	14.74	301	12.10	946	13.78
11	XI(K00 - K92)	Diseases of the digestive system	302	6.90	98	3.94	400	5.83
12	XII(L00 - L98)	Diseases of the skin and subcutaneous tissue						
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	183	4.18	118	4.74	301	4.39
15	XV(O 00 - O 99)	Pregnancy, Childbirth and Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	365	8.34	302	12.14	667	9.72
17	XVII(Q00 - Q99)	Congenital malformation and deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs and abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00 - T98)	Injury, Poisoning and certain other consequences of external cause	316	7.22	162	6.51	478	6.96
		Total	4377	100	2487	100	6864	100

TABLE 26

Sex-wise and Age-wise distribution of Medically Certified Deaths in Kozhikode Corporation 2002—Below 1 year

Sl.No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00-B99)	Certain infectious and parasitic diseases	32	6.00	29	7.00	61	6.44
2	II(C00-D48)	Neoplasms	1	0.19	3	0.72	4	0.42
3	III(D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	2	0.38			2	0.21
4	IV(E00-E89)	Endocrine, Nutritional and metabolic diseases			1	0.24	1	0.11
5	V(F00-F99)	Mental and behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	18	3.38	17	4.11	35	3.70
7	VII(H00-H59)	Disease of the eye and Adnexa						
8	VIII(H60-H95)	Disease of the ear and mastoid						
9	IX(I00-I99)	Disease of the circulatory system	30	5.63	15	3.62	45	4.75
10	X(J00-J98)	Diseases of respiratory system	72	13.51	40	9.66	112	11.83
11	XI(K00-K92)	Diseases of the digestive system	7	1.31	5	1.21	12	1.27
12	XII(L00-L98)	Diseases of the skin and subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	6	1.13	3	0.72	9	0.95
15	XV(O 00-O 99)	Pregnancy, Childbirth and Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period	364	68.29	300	72.46	664	70.12
17	XVII(Q00-Q99)	Congenital malformation and deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning and certain other consequences of external cause.	1	0.19	1	0.24	2	0.21
		Total	533	100.00	414	100.00	947	100.00

TABLE 27
Sexwise and Age-wise distribution of Medically Certified Deaths in Kozhikkode Corporation 2002—1 to 14 years

Sl.No	Code	Headings	Male	%	Female	%	Total	%
1	II(A00-B99)	Certain infectious and parasitic diseases	13	9.22	18	15.52	31	12.06
2	II(C00-D48)	Neoplasms	23	16.31	13	11.21	36	14.01
3	III(D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	4	2.84	1	0.86	5	1.95
4	IV(E00-E89)	Endocrine, Nutritional and metabolic diseases						
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	25	17.73	26	22.41	51	19.84
7	VII(H00-H59)	Disease of the eye and Adnexa						
8	VIII(H60-H95)	Disease of the ear and mastoid						
9	IX(I00-I99)	Disease of the circulatory system	15	10.64	10	8.62	25	9.73
10	X(J00-J98)	Diseases of respiratory system	28	19.86	29	25.00	57	22.18
11	XI(K00-K92)	Diseases of the digestive system	9	6.38	2	1.72	11	4.28
12	XII(L00-L98)	Diseases of the skin and subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system and connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	6	4.26	6	5.17	12	4.67
15	XV(O 00-O 99)	Pregnancy, Childbirth and Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period	1	0.71	2	1.72	3	1.17
17	XVII(Q00-Q99)	Congenital malformation and deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs and abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning and certain other consequences of external cause.	17	12.06	9	7.76	26	10.12
		Total	141	100.00	116	100.00	257	100.00

TABLE 28

Sex-wise and Age-wise distribution of Medically Certified Deaths in Kozhikkode Corporation 2002—15 to 44 years

Sl.No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00-B99)	Certain infectious and parasitic diseases	97	14.85	58	13.68	155	14.39
2	II(C00-D48)	Neoplasms	64	9.80	47	11.08	111	10.31
3	III(D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	5	0.77	3	0.71	8	0.74
4	IV(E00-E89)	Endocrine, Nutritional and metabolic diseases	16	2.45	9	2.12	25	2.32
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance		0.00		0.00		0.00
6	VI(G00-G98)	Disease of nervous system	28	4.29	41	9.67	69	6.41
7	VII(H00-H59)	Disease of the eye and Adnexa						
8	VIII(H60-H95)	Disease of the ear and mastoid						
9	IX(I00-I99)	Disease of the circulatory system	114	17.46	84	19.81	198	18.38
10	X(J00-J98)	Diseases of respiratory system	94	14.40	35	8.25	129	11.98
11	XI(K00-K92)	Diseases of the digestive system	60	9.19	28	6.60	88	8.17
12	XII(L00-L98)	Diseases of the skin and subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system and connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	37	5.67	28	6.60	65	6.04
15	XV(O 00-O 99)	Pregnancy, Childbirth and Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00-Q99)	Congenital malformation and deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs and abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning and certain other consequences of external cause.	138	21.13	91	21.46	229	21.26
		Total	653	100.00	424	100.00	1077	100.00

TABLE 29
Sex-wise and Age-wise distribution of Medically Certified Deaths in Kozhikkode Corporation 2002—45 and Above

Sl.No.	Code	Headings	Male	%	Female	%	Total	%
1	II(A00-B99)	Certain infectious and parasitic diseases	252	8.26	126	8.22	378	8.25
2	II(C00-D48)	Neoplasms	477	15.64	204	13.31	681	14.86
3	III(D50-D89)	Diseases of blood and blood forming organs and certain disorders involving the immune mechanism	19	0.62	14	0.91	33	0.72
4	IV(E00-E89)	Endocrine, Nutritional and metabolic diseases	175	5.74	107	6.98	282	6.15
5	V(F00-F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00-G98)	Disease of nervous system	91	2.98	59	3.85	150	3.27
7	VII(H00-H59)	Disease of the eye and Adnexa						
8	VIII(H60-H95)	Disease of the ear and mastoid						
9	IX(I00-I99)	Disease of the circulatory system	1065	34.92	621	40.51	1686	36.79
10	X(J00-J98)	Diseases of respiratory system	451	14.79	197	12.85	648	14.14
11	XI(K00-K92)	Diseases of the digestive system	226	7.41	63	4.11	289	6.31
12	XII(L00-L98)	Diseases of the skin & subcutaneous tissue						
13	XIII(M00-M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00-N99)	Diseases of the genito urinary system	134	4.39	81	5.28	215	4.69
15	XV(O 00-O 99)	Pregnancy, Childbirth and Puerperium						
16	XVI (P00-P96)	Certain conditions originating in the perinatal period						
17	XVII(Q00-Q99)	Congenital malformation and deformities Chromosomal abnormalities						
18	XVIII(R00-R99)	Symptoms, signs and abnormal clinical laboratory findings not elsewhere classified						
19	XIX(S00-T98)	Injury, Poisoning and certain other consequences of external cause.	160	5.25	61	3.98	221	4.82
		Total	3050	100.00	1533	100.00	4583	100.00

APPENDIX I
Details of Medical Institutions Covered under MCCD—2002

Sl. No.	Type of Hospital	Thiruvananthapuram			Kollam			Kochi			Kozhikkode			Alappucha				
		Existing institutions	covered under MCCD	Reporting MCCD Data	Existing institutions	covered under MCCD	Reporting MCCD Data	Existing institutions	covered under MCCD	Reporting MCCD Data	Existing institutions	covered under MCCD	Reporting MCCD Data	Existing institutions	covered under MCCD	Reporting MCCD Data		
1	Teaching Hospital	10	10	-									5	4	4	1	1	1
2	Specialised Hospitals	9	9	-									14	8	8	1	1	1
3	General Hospitals	1	1	-	2	2	2	3	3	3	23	23	23	23	23	1	1	1
4	Primary Health Centers				4						6							
5	Community Health Centers				13											6		
6	Other Government and Private Hospitals	19	17	-														
(a)	ESI Hospitals	1	1	-	1	1	1	1	1	1	3					1		1
(b)	Railway Hospitals	1	1	-	1						1							
(c)	Police Hospitals																	
(d)	Defence Hospitals	1	1	-				1	1	1								
(e)	Missionary Hospitals	1	1	-	1	1	1	4	4	4	2	1	1	1	1			
(f)	Other private Hospitals	17	15	-	35	17	17	45	45	45	1							

APPENDIX II

MEDICALLY CERTIFIED DEATHS BY SEX ACCORDING TO ICD—10 -2002

Cause of death	ICD code	Alappuzha			Kollam			Kochi			Kozhikkode		
		M	F	T	M	F	T	M	F	T	M	F	T
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
I. Certain infectious and parasitic diseases													
Cholera	A00							1		1			
Typhoid fever & Paratyphoid fever	A01												
Food poisoning	A02,A05							1		1			
Shigellosis	A03												
Amoebiasis	A06												
Diarrhoea & Gastroenteritis of presumed infectious origin	A09												
Other intestinal infectious diseases	A04,A07,A08	1		1									
Respiratory TB	A15,A16	39	32	71	24	11	35	88	39	127	91	29	120
TB of Nervous system	A17												
TB of other organs & miliary TB	A18,A19												
Plague	A20												
Leprosy	A30												
Neonatal Tetanus	A33							3	1	4			
Other tetanus	A34-A35										3	5	8
Diphtheria	A36												
Whooping cough	A37												
Meningococcal infection	A39												
Septicemia	A40,A41	41	33	74	15	8	23	127	65	192	174	119	293
All other types of bacterial diseases	A21-A28, A31,A32,A38,A42 -A49												

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
II. Neoplasms													
Malignant neoplasm of lip, oral cavity & pharynx	C00-C14	3	1	4	9	14	23	42	26	68	12	7	19
Malignant neoplasm of Oesophagus	C15	8	6	14	7	1	8	37	8	45	36	20	56
Malignant neoplasm of stomach	C16	11	10	21	18	1	19	33	4	37	73	24	97
Malignant neoplasm of small intestine including duodenum	C17												
Malignant neoplasm of colon	C18	2	2	4	3		3	25	6	31	7	3	10
Malignant neoplasm of rectosigmoid function, rectum, anus & anal canal	C19-C21	1	2	3				30	10	40	14	12	26
Malignant neoplasm of liver & intra hepatic bile ducts	C22				4		4	22	13	35	11	3	14
Malignant neoplasm of pancreas	C25	8	6	14	4	4	8	34	19	53	25	4	29
Other Malignant neoplasm of digestive organs	C23-C24,C26												
Malignant neoplasm of Pharynx	C32							8	2	10	8	3	11
Malignant neoplasm of trachea, bronchi & lungs	C33-C34	6	2	8	19	4	23	69	32	101	173	25	198
Other Malignant neoplasm of respiratory & intrathoracic organs	C30-C31,C37,C39												
Malignant neoplasm of bone & articular cartilage	C40,C41												

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Malignant neoplasm of other, illdefined, secondary, unspecific & multiple sites	C73-C80,C97	20	11	31	8	3	11	21	5	26	61	39	100
Hodgkin's diseases	C81	3	1	4				1	2	3	8		8
Non Hodgkins lymphoma	C82-C85				1	7	8	5	1	6	3	3	6
Multiple mycioma & malignant plasma cell neoplasria	C90												
Leukaemia	C91-C95	2	2	4		2	2	33	31	64	30	20	50
Other Malignant neoplasm of lymphoid haematopietic & related tissue	C88,C96										2		2
Carcinoma in Situ	D00-D09												
Leiomyoma of uterus	D25												
All other benign neoplasms	D10-D24,D26-D36												
Other unspecified neoplasm	D37-D48												
III. Diseases of blood & blood forming organs and certain disorders involving the immune mechanism													
Thalassaemia	D56		1	1									
Other aneamias	D50-D55,D57-D64	2		2	3	4	7	26	23	49	30	18	48
All other diseases of blood and blood forming organs	D65-D77												
Certain disorders involving the immune mechanism	D80-D89												
IV. Endocrine,Nutritional & metabolic diseases													
Kwashiorkor	E40							1		1			

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
VIII. Disease of the ear and mastoid												
Disease of the ear & mastoid												
	H60-H93											
IX. Disease of the circulatory system												
Acute Rheumatic fever	I 00-I 02											
Chronic rheumatic heart disease	I 05-I 09	6	10	16	5	16	21	20	41	26	38	64
Hypertensive heart diseases	I 11	59	38	97	107	95	202	136	215	155	93	248
All other Hypertensive diseases	I 10, I 12-I 15	5	5	10	1	3	4	63	106	14	5	19
Acute myocardial infarction	I 21-I 22	95	32	127	146	66	212	205	310	241	146	387
All other ischaemic heart diseases	I 20, I 23-I 25	8	11	19	40	27	67	119	189	83	42	125
Pulmonary heart diseases and diseases of pulmonary circulation	I 26-I 28, I 26-I 51	19	18	37	33	18	51	264	430	158	56	214
Other forms of heart diseases	I 30-I 51	4	4	8	3	3	6	3	7	26	19	45
Cerebro vascular diseases	I 60-I 69	67	39	106	169	104	273	181	300	441	293	734
Atherosclerosis	I 70									2		2
Arterial embolism	I 74	1		1	14	2	16	36	52	18	11	29
Other diseases of arteries, arterioles and capillaries	I 71-I 73, I 77-I 78				29	14	43	63	92	60	27	87
Phlebitis thrombotic, phlebitis, VeneseMBOLISM and thrombosis	I 80-I 82							5	1			

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Peritonitis	K65	17	12	29	6	3	9	15	14	29	47	19	66
Diseases of the liver	K70-K76	34	15	49	45	12	57	102	43	145	209	58	267
Cholelithiasis and Cholelystifis	K80-K81												
Disorders of pancreas	K85-K86												
All other disease of other part of digestive system	K20-K22, K28, K30-K31, K50- K55, K57-K63, K66, K83, K90- K92												
XII. Diseases of the skin & subcutaneous tissue													
Infections of skin & subcutaneous tissue	L00-L08												
All other diseases of skin & subcutaneous tissue	L10-L98												
XIII. Diseases of musculoskeletal system and connective tissue													
Rheumatoid arthritis & other inflammatory polyarthropathies	M05-M13							1					
Osteomyelitis	M86												
All other diseases of musculoskeletal system & connective tissue	M00-M02, M15- M43, M45- M85, M87-M99												
XIV. Diseases of the genito urinary system													
Glomerular disease(including nephritic syndrome)	N00-N07	6	2	8				23	8	31	10	12	22
Renal tubulo interstitial diseases	N10-N05												
Renal failure	N17-N19	20	7	27	20	13	33	101	46	147	173	106	279
Urolithiasis	N20-N23												

Other disorders of kidney and ureter	N25-N28									1	1	2				
All other disease of urinary system	N30-N39															
Hyperplasia of prostate	N40															
All other disease of male genital organs	N41-N50															
Salpingitis & oophoritis	N70															
All other disease of female genital organs	N60,N64,N71-N76,N80-N99															
XV. Pregnancy, Childbirth and Puerperium																
Spontaneous abortion	O03															
Medical abortion	O04															
Other pregnancies with abortive outcome	O00-O02,O05-O08															
Oedema, Proteinuria and hypertensive disorders in pregnancy childbirth and puerperium	O10-O16									4	4	4				
Infections of genitourinary tract in pregnancy	O23															
Obstructed labour	O64-O66									2	2	2				
Complications predominantly related to the puerperium	O85-O92															
Other complications of delivery and pregnancy	O67-O75,O80-O84															
Indirect obstetric deaths	O98-O99															
All other obstetric conditions not elsewhere classified	O95-O97															
XVI. Certain conditions originating in the perinatal period																
Slow fatal growth fetal malnutrition and immaturity	P05-P07	60	61	121	37	15	52	73	48	121	136	114	250			

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Birth trauma.	P10-P15	3	9	12	4	4	8	1	2	3			
Hypoxia, Birth asphyxia and other respiratory conditions	P20-P28	23	9	32	12	12	24	42	20	62	229	188	417
Hemolytic diseases of foetus and new born	P55												
Other perinatal jaundice	P58-P59												
All other conditions originating in the perinatal period	P00-P04, P08, P29-P54, P56, P57, P60-P96												
XVII. Congenital malformation and deformities Chromosomal abnormalities													
Spinabifida	Q05												
Congenital formation of the circular system	Q20-Q28												
Cleft lip and cleft palate	Q35-Q37							1	1	2			
All other Congenital formation and deformation and Chromosomal abnormality not elsewhere classified	Q00-Q04, Q06, Q07, Q10-Q18, Q30-Q34, Q38-Q99												
XVIII. Symptoms, signs and abnormal clinical laboratory findings not elsewhere classified													
Abdominal pelvic	R10												
Ascites	R18												
Somnolence stupr & coma	R40												
Fever unknown	R50												
Senility	R54												
Syncope and collapse	R55												
Convulsion not elsewhere classified	R56												

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Other injuries of specified and unspecified multiple body regions	S00-S01, S05, S09-S11, S15-S16, S19-S21, S25, S29-S31, S35, S39-S41, S45-S46, S49-S51, S55-S56, S59-S61, S65-S66, S69-S71, S75-S76, S79-S81, S85-S86, S89-S91, S95-S96, S99, T00-T01, T06-T07, T09, T11, T13-T14				2		2						
Effects of foreign body entering through natural orifice	T15-T19												
Burns, Corrosion	T20-T32		13	13	3	7	10	24	25	49	25	84	109
Poisoning by drugs and biological substances and toxic effects of substances chiefly, non medical as to source	T36-T50, T51-T65	37	11	48	30	6	36	30	9	39	64	31	95
Other unspecified effects of external cause and certain early complication of trauma	T33-T35, T66-T78, T79												
Complication of surgical medical care not elsewhere classified	T80-T88							6	2	8			
Late effects of injuries of poisoning of other consequences of external causes	T90-T98												

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