



Government of Kerala

Report on

**MEDICAL CERTIFICATION OF
CAUSE OF DEATH
1999**

Directorate of Economics and Statistics

Thiruvananthapuram, Kerala

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 deaths is well recognized and these data are in demand by health planners, administrators and medical professionals.

To obtain valuable data regarding cause of death, it was introduced in three Corporations viz. Thiruvananthapuram, Kochi and Kozhikode and in the Municipalities of Kollam and Alappuzha. However due to paucity of technical staff in Municipalities/Corporations data pertaining to Corporations of Thiruvananthapuram and Kochi and Municipality of Kollam alone have been included in this report.

In this report 10th Revision of the ICD is adopted. The Tenth Revision of the International Statistical Classifications of Diseases and related health problems is the latest in a series that was formulized in 1893 as the Bertillon Classification or International List of Causes of Death.

The Report pertaining to Corporations of Thiruvananthapuram, Kochi and Municipality of Kollam for the year 1999 was prepared by the Vital Statistics Unit of this Directorate.

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REPORT ON MEDICAL CERTIFICATION OF CAUSE OF DEATH 1999

INTROUDCTION

Mortality statistics form an integral part of the Vital Statistics System in the country. This is one of the basic components for measuring population growth and provides a demographic perspective for development of planning in health services. The mortality rates are key indicators of health trends in population. It also refers the standard of health care social and public health system of the states. Therefore it has been apparently included as a factor for calculating Human Development index, as it reflects certain salient features of real development of a nation that envisage to establish an environment for the people to enjoy long healthy and creative life.

Cause of death is one of the most important aspects of mortality. Therefore, scientific data on cause of death is highly warranted aspects of population.

Death is a phenomenon that happens due to either immediate cause or antecedent cause. Identification of the exact cause of death is very arduous. Similarly death may be due to diseases, suicide, accident or homicide. Pooling the data on cause of death has been done as the part of national level scheme of Medical Certification of cause of Death under Vital Statistics data collection.

THE SCHEME OF MEDICAL CERTIFICATION OF CAUSE OF DEATH

The scheme of Medical Certification of cause of death was introduced in the state as part of All India programme for improvement of Vital Statistics. In this state it was introduced in the Four Corporations of Thiruvananthapuram, Kollam, Kochi and Kozhikode and Municipality of Alappuzha. The schemes envisage collection of relevant data relating to all deaths of institutional origin. The main objectives of the scheme are

- (i) To obtain reliable data on cause of death.
- (ii) To pin point the leading cause of death for male and female
- (iii) To identify the individual cause of Death among certain specified groups like infants, mothers and aged persons.
- (iv) To study the mortality pattern of certain important disease like heart attack; tuberculosis, cancer etc.
- (v) To provide referral support for the prioritization of health programmers.

The present study confine to the corporation of Thiruvananthapuram, Kollam and Kochi for the year 1999.

METHODOLOGY

The scheme envisages the collection of accurate data relating to all death in Medical Institutions in the Corporation/Urban area having facilities for inpatient treatment. The attending Physician is required to finish the data on cause of death in the presented form. The cause of death certificate are scrutinized and identified and coded by the deputy Health officer appointed for the purpose. For coding the causes the list 'A' of the international classification of disease (Xth Revision) is adopted.

CAUSE OF DEATH

A cause of death is 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 completely unrelated, arising independently of each other; or they may be causally related to each other, that is, one condition may lead to another, which in turn leads to a third condition and so on. Where there is a sequence, the underlying cause, i.e., the disease or injury, which initiated the sequence of events will get selected for the purpose of tabulation.

The underlying cause of death is:

- (a) The disease or injury which initiated the train of events leading directly to death;
- or
- (b) the circumstances of the accident or violence which produced the fatal injury.

All these morbid conditions or injuries consequents to the underlying cause relating to death are termed as antecedent and immediate cause.

THIRUVANANTHAPURAM CORPORATION 1999

As per 1999 Census, Population of Thiruvananthapuram (Corporation) was 524006 with an area of 73.93 Sq.KM having a density of 6993. During the year under report the number of medically certified deaths analyzed were 7744 Nos.

Sex wise Distribution

In Thiruvananthapuram Corporation out of 7744 deaths verified 4926 (63.61%) were male and 2818 (36.39%) were female. For the previous year 1998 the total number of Deaths reported was 6857 with male 4287 (62.52%) and female 2570 (37.48%)

Major diseases

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

Disease of the circulatory system has been reported as first major cause of death. It includes causes like Heart attack, congestive and other heart disease. The percentage of deaths reported in 1999 was 29.51%.

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

Neoplasm has been reported as 2nd major cause of death. This major group comprises of Cancer. The percentage of deaths reported under this disease in 1999 was 13.82%.

(3) Injury, Poisoning and certain other consequences of external cause Code XIX (S 00-T98)

The major group under this category ranks as the 3rd major killer diseases, which includes deaths due to Burns and Food poisoning etc. 11.16% of the people were died due to this cause.

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

Infectious and parasitic diseases stand in 4th place. This major group comprises of cholera, Typhoid, Para typhoid, Dysentery, Diarrhea and Gas tro-enteritis, TB of lungs, Leprosy, Tetanus, Neo-naturm and other Tetanus, Whooping Cough, Poliomyelitis and Rabies. The percentage of deaths reported in this category was 8.15%.

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

This major group comprises of Anemia, Metabolic diseases 6.03% of the people were reported to be died in this category in 1999.

(6) Diseases of the digestive system code XI (K00-K92)

The major group "Diseases of the digestive system" is comprised of peptic or Gastric Ulcer such deaths has been reported as 5.95% during year 1999.

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

This major cause group consist of Epilepsy, Parkinson's disease, Alzhuymers disease, Migraine. The percentage of deaths reported under this category was 5.62% during 1999.

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

Diseases of the genito urinary system had the 8th position in the cause of death. 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 during year 1999 was 5.38%.

(9) Congenital Malformations, deformities & chromosomal abnormalities Code XVII (Q00-Q99)

This major cause group consist of congenital malformation of nervous system, eye, ear, face, circulatory system, respiratory system and digestive system etc. The percentage of death under this category reported was 3.45%.

Death According to Age group

The percentage of death for the age group below 1 year was 7.71. For the previous year 1998, it was 8.46%. In the age group 1-14, percentage of death was 4.97%. The percentage of death among the age group 15-44 was 24.96% where as that for the age group 45 and above was 62.3%.

The major killer diseases in the infants was due to certain conditions originating in the perinatal periods; congenital malformation and deformities chromosome abnormalities was the major killer disease in the age group 1-14 followed by Neoplanesms. Percentage of the former is 22.6% and later is 20.52%. In the age group 15 to 44 years, the major killer disease was injury, poisoning and certain other consequences of external cause having 23.12%. The percentage of death due to disease of circulatory system was reported as 40.77% in the age group 45 and above.

KOCHI CORPORATION 1999

As per 1991 Census, population of Kochi Corporation was 564589 with an area of 94.88 Sq. Km having the density of population 5951. During the year under report, the number of medically certified death analyzed were 3574.

Sex-wise distribution

Out of 3574 deaths verified during the year, 2155 (60.30%) were of males and 1419 (39.70%) were of females.

Major diseases

(1) Disease of the circulatory system – Code IX (J 00- J 99)

Disease of the circulatory system has been reported as the first major cause of death. The percentage of death reported under this category during 1999 was 41.52%.

(2) Neoplasms Code II (C 00- D 48)

Neoplasms have been reported as 2nd major cause of death. This major group comprises of Cancer. The percentage of death reported under this disease in 1999 was 12.67%

(3) Diseases of respiratory system Code X (J00-J98)

Diseases of respiratory system stand in the 3rd position. It includes specific causes like influenza, Pneumonia, Bronchitis and Asthma. During the reported year the percentage of death occurred under this category was 11.08%.

(4) Injury, Poisoning and certain other consequences of external cause Code XIX(S00-T98)

This major group ranks as 4th cause of death, which includes death due to burns, food poisoning etc. During year 1999, 7.05% of the people were died due this cause.

(5) Diseases of the genito urinary system Code XIV (N00-N99)

This major group stands in the 5th position. This includes death due to disorder of Kidney, Renal Failure, etc. The percentage of death reported under this category was 6.86%.

(6) Diseases of the digestive system Code XI(K00-K92)

Diseases of the digestive system killed 5.79% of the people during 1999. This is the 6th major cause of death. This group consists of diseases of liver, appendicitis, Hernia, disease of intestine etc.

(7) Certain infectious and parasitic diseases Code I (A00-B99)

Infectious and parasitic diseases stand in 7th place. This major group comprises of Cholera, Typhoid and Para typhoid, Dysentery, Tetanus, Whooping Cough, Rabies etc. The percentage of death reported under this category was 5.04%

(8) Endocrine, Nutritional and Metabolic diseases Code IV (E00-E89)

This major group comprises of Anemia, Metabolic disease etc. killed 4.39% of the people during 1999 ranked as 8th in the report.

(9) Diseases of the nervous system Code VI (G00-G98)

This major group consists of Epilepsy Parkinson's disease, Alzheimer's, Migraine etc. The percentage death reported was 2.66% during the year 1999.

KOLLAM MUNICIPALITY 1999

As per 1991 Census population of Kollam Municipality was 139852 with an area of 18.48sq Km. having density of population 7568. During the year 1999, the number of medically certified death, analyzed were 2037.

Sex wise Distribution

Out of 2037 deaths reported, 1299 were males and 738 were females.

Top Killer diseases

(1) Disease of the circulatory system Code IX (J00-J99)

Disease of the circulatory system has been reported as first major killer disease. The percentage death reported in 1999 was 52.23%.

(2) Endocrine, Nutritional and Metabolic disease Code IV(E00-E89)

This major group has been reported as 2nd Major killer disease. This group consists of Anemia, Metabolic disease etc. 11.88% deaths were reported under this category during the year 1999.

(3) Neoplasms Code II (COO - D 48)

This major group consists of Cancer, which stands in 3rd position. 6.97% deaths were reported during 1999.

(4) Certain conditions originating in the perinatal period Code XVI (P00-P96)

This major group is comprised of infant deaths due to prematurely, Birth injury, respiratory infection of newborn, Diarrhea of new born and congenital Malformation. The percentage of death reported under this group during the year 1999 was 6.09%.

(5) Injury, Poisoning and certain other consequences of external cause Code XIX (S00-T98)

This major group has been reported as 5th major killer disease. The percentage of death reported during the year 1999 was 6.09%.

(6) Diseases of respiratory system Code X (J00-J98)

This major cause group has been reported as 6th major killer disease. 3.83% of deaths were reported under this group during the year 1999.

(7) Diseases of digestive system Code XI (K00-K92)

2.41% of deaths were reported under this major group during the year 1999. This stands in the 7th position.

(8) Certain infectious and parasitic disease Code I (A00-B99)

The percentage of deaths reported under this major group was 2.41%, ranked as eighth in position.

(9) Disease of the genito urinary system XIV (N00-N99)

This major group has the 9th position in ranking 2.16% of people were reported to be died during the year 1999.

Death According to Age Group

The percentage of death for the age group below 1 year was 7.95%. The percentage of death 0.84% was noted to be least in the age group 1-14. The percentage of death among the age group 15-44 was 10.26% and 66.81% occurred in the age group of 45 and above.

The major killer group of the infants was the conditions originating in the perinatal period. The major cause of death of the age group 1-14 was diseases of the respiratory system. The major cause of death reported for the age group 15 -44 is due to the disease of the circulatory system. The percentage of death reported was 32.54% and for the age group 45 and above that was 61.94%.

CONCLUSION

The major group "disease of the circulatory system emerged as the first cause group in all the centers Thiruvananthapuram Corporation, Kochi Corporation and Kollam Municipality with 29.51%, 41.52% and 52.23% respectively. Neoplasm came as second in Kochi Corporation and 3rd in Thiruvananthapuram Corporation and Kollam Municipality.

**Number and Percentage of Death based on Major diseases in
the Corporations of Thiruvananthapuram, Kochi and Kollam Municipality for the year 1999**

Sl. No	Code	Diseases	Thiruvananthapuram		Kochi		Kollam	
			No	%	No	%	No	%
1	IX (I00 - I99)	Disease of the circulatory system	2285	29.51	1484	41.52	1064	52.23
2	II (C00 - D48)	Neoplasms	1070	13.82	453	12.67	142	6.97
3	XIX (S00 - T98)	Injury, Poisoning & certain other consequences of external cause	864	11.16	268	7.50	124	6.09
4	I (A00 - B99)	Certain infectious & parasitic diseases	631	8.15	180	5.04	49	2.41
5	IV (E00 - E89)	Endocrine, Nutritional & metabolic diseases	467	6.03	157	4.39	242	11.88
6	XI (K00 - K92)	Diseases of the digestive system	461	5.95	207	5.79	64	3.14
7	VI (G00 - G98)	Diseases of the nervous system	435	5.62	95	2.66	20	0.98
8	X (J00 - J98)	Diseases of respiratory system	203	2.62	396	11.08	78	3.83
9	XIV (N00 - N99)	Diseases of the genito urinary system	417	5.38	245	6.86	45	2.21
10	XVIII (R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	133	1.32	-	-	44	2.16
		Others	778	10.04	89	2.49	165	8.10
		TOTAL	7744	100.00	3574	100.00	2037	100.00

Death According to Age Group
Thiruvananthapuram Corporation 1999

Sl. No	Age Group	No.	%
1	Below 1 Year	597	7.71
2	1-14	385	4.97
3	15-44	1933	24.96
4	45 and Above	4829	62.36
TOTAL		7744	100.00

Appendix 2
Percentage Ranking of Death based on Major Disease
Sexwise details of medically certified deaths in Thiruvananthapuram Corporation 1999

Sl. No.	Code	Headings	Male %	Female%	Total %
1	IX(I00 - I99)	Disease of the circulatory system	28.46	31.33	29.51
2	II(C00 - D48)	Neoplasms	14.94	11.85	13.82
3	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	13.58	6.92	11.16
4	II(A00 - B99)	Certain infectious & parasitic diseases	8.77	7.06	8.15
5	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	5.22	7.45	6.03
6	XI(K00 - K92)	Diseases of the digestive system	6.94	4.22	5.95
7	VI(G00 - G98)	Diseases of the nervous system	5.40	6.00	5.62
8	XIV(N00 - N99)	Diseases of the genito urinary system	5.16	5.78	5.38
9	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	3.25	6.60	4.47
10	XJ(O0 - J 98)	Diseases of respiratory system	2.05	5.89	3.45
11	XVI(P00 - P96)	Certain conditions originating in the perinatal period	2.60	2.66	2.62
12	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	1.81	1.56	1.72
13		Others	1.82	2.68	2.12
		Total	100.00	100.00	100.00

Appendix 3
Sexwise details of medically certified deaths in Thruvyananthapuram Corporation 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	432	8.7	199	7.06	631	8.15
2	II(C00 - D48)	Neoplasms	736	14.94	334	11.85	1070	13.82
3	III(D50 - D89)	The immune mechanism	8	0.16	6	0.21	14	0.18
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	257	5.22	210	7.45	467	6.03
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance	15	0.30	7	0.25	22	0.28
6	VI(G00 - G98)	Diseases of the nervous system	266	5.40	169	6.00	435	5.62
7	VII(H00 - H59)	Disease of the eye & Adnexa	0	0.00	0	0.00	0	0.00
8	VIII(H60 - H95)	Disease of the ear & mastoid	0	0.00	0	0.00	0	0.00
9	IX(I00 - I99)	Disease of the circulatory system	1402	28.46	883	31.33	2285	29.51
10	X(J00 - J98)	Diseases of respiratory system	128	2.60	75	2.66	203	2.62
11	XI(K00 - K92)	Diseases of the digestive system	342	6.94	119	4.22	461	5.95
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue	32	0.65	21	0.75	53	0.68
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue	35	0.71	24	0.85	59	0.76
14	XIV(N00 - N99)	Diseases of the genito urinary system	254	5.16	163	5.78	417	5.38
15	XV(O00 - O99)	Pregnancy, Childbirth & Puerperium	0	0.00	17	0.60	17	0.22
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	101	2.05	166	5.89	267	3.45
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	160	3.25	186	6.60	346	4.47
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	89	1.81	44	1.56	133	1.72
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	669	13.58	195	6.92	864	11.16
		Total	4926	100.00	2818	100.00	7744	100.00

Appendix 4 Below 1 Year
Sexwise details of medically certified deaths in Thruvananthapuram Corporation 1999

Sl. No	Code	Headings	Male	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	12	19	4.63	31	5.62
2	II(C00 - D48)	Neoplasms	1	1	0.39	2	0.34
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	4	4	1.18	8	0.67
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance					
6	VI(G00 - G98)	Diseases of the nervous system	12	22	4.63	34	6.51
7	VIII(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	1	1	0.30	2	1.0.17
10	X(J 00 - J 98)	Diseases of respiratory system	2	2	0.77	4	0.59
11	XI(K00 - K92)	Diseases of the digestive system	2	1	0.77	3	0.30
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	4	0.39	5	1.18
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium	1	1	0.30	2	1.0.17
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	101	166	39.00	267	49.11
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	78	95	30.12	173	28.11
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	36	19	13.90	55	5.62
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	14	3	5.41	17	0.89
		TOTAL	259	338	100.00	597	100.00

Appendix 5 1 to 14 years
Sex wise and age wise details of medically certified deaths in Thiruvananthapuram Corporation 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	18	8.91	25	13.66	43	11.17
2	II(C00 - D48)	Neoplasms	56	27.72	23	12.57	79	20.52
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	0	0.00	0	0.00	0	0.00
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	4	1.9	87	3.83	11	2.86
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance	0	0.00	0	0.00	0	0.00
6	VI(G00 - G98)	Diseases of the nervous system	27	13.3	736	19.67	631	6.36
7	VII(H00 - H59)	Disease of the eye & Adnexa	0	0.00	0	0.00	0	0.00
8	VIII(H60 - H95)	Disease of the ear & mastoid	12	5.9	46	3.28	18	4.68
9	IX(I00 - I99)	Disease of the circulatory system	7	3.47	8	4.37	15	3.90
10	X(J00 - J98)	Diseases of respiratory system	5	2.48	7	3.83	12	3.12
11	XI(K00 - K92)	Diseases of the digestive system	0	0.00	1	0.55	1	0.26
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue	1	0.50	0	0.00	1	0.26
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue	14	6.93	12	6.56	26	6.75
14	XIV(N00 - N99)	Diseases of the genito urinary system	0	0.00	0	0.00	0	0.00
15	XV(O00 - O99)	Pregnancy, Childbirth & Puerperium	0	0.00	0	0.00	0	0.00
16	XVI(P00 - P98)	Certain conditions originating in the perinatal period	40	19.80	47	25.68	87	22.60
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	7	3.47	9	4.92	16	4.16
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	11	5.45	2	1.09	13	3.38
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	202	100.00	183	100.00	385	100.00
TOTAL								

Appendix 6 15 to 44 years
Sex wise and age wise details of medically certified deaths in Thiruvananthapuram Corporation 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	137	10.51	72	11.45	209	10.81
2	II(C00 - D48)	Neoplasms	205	15.72	103	16.38	308	15.93
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	2	0.15	3	0.48	5	0.26
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	66	5.06	43	6.84	109	5.64
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance	11	0.84	4	0.64	15	0.78
6	VI(G00 - G98)	Diseases of the nervous system	74	5.67	38	6.04	112	5.79
7	VII(H00 - H59)	Disease of the eye & Adnexa	0	0.00	0	0.00	0	0.00
8	VIII(H60 - H95)	Disease of the ear & mastoid	0	0.00	0	0.00	0	0.00
9	IX(I 00 - I 99)	Disease of the circulatory system	187	14.34	110	17.49	297	15.36
10	X(J 00 - J 98)	Diseases of respiratory system	42	3.22	21	3.34	63	3.26
11	XI(K00 - K92)	Diseases of the digestive system	114	8.74	38	6.04	152	7.86
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue	5	0.38	9	1.43	14	0.72
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue	7	0.54	18	2.86	25	1.29
14	XIV(N00 - N99)	Diseases of the genito urinary system	72	5.52	45	7.15	117	6.05
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium	0	0.00	16	2.54	16	0.83
16	XVI(P00 - P98)	Certain conditions originating in the perinatal period	0	0.00	0	0.00	0	0.00
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	16	1.23	16	2.54	32	1.66
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	9	0.69	3	0.48	12	0.62
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	357	27.38	90	14.31	447	23.12
		TOTAL	1304	100.00	629	100.00	1933	100.00

Appendix 7 45 and Above
Sex wise and age wise details of medically certified deaths in Thiruvananthapuram Corporation 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I (A00 - B99)	Certain infectious & parasitic diseases	265	8.38	83	4.98	348	7.21
2	II (C00 - D48)	Neoplasms	474	15.00	207	12.41	681	14.10
3	III (D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	6	0.19	3	0.18	9	0.19
4	IV (E00 - E89)	Endocrine, Nutritional & metabolic diseases	187	5.92	156	9.35	343	7.10
5	V (F00 - F99)	Mental & behavioral disorder due to psycho active substance	4	0.13	3	0.18	7	0.14
6	VI (G00 - G98)	Diseases of the nervous system	153	4.84	73	4.38	226	4.68
7	VII (H00 - H59)	Disease of the eye & Adnexa	0	0.00	0	0.00	0	0.00
8	VIII (H60 - H95)	Disease of the ear & mastoid	0	0.00	0	0.00	0	0.00
9	IX (I00 - I99)	Disease of the circulatory system	1203	38.06	766	45.92	1969	40.77
10	X (J00 - J98)	Diseases of respiratory system	77	2.44	44	2.64	121	2.51
11	XI (K00 - K92)	Diseases of the digestive system	221	6.99	73	4.38	294	6.09
12	XII (L00 - L98)	Diseases of the skin & subcutaneous tissue	27	0.85	11	0.66	38	0.79
13	XIII (M00 - M99)	Diseases of musculoskeletal system & connective tissue	27	0.85	6	0.36	33	0.68
14	XIV (N00 - N99)	Diseases of the genito urinary system	167	5.28	102	6.12	269	5.57
15	XV (O00 - O99)	Pregnancy, Childbirth & Puerperium	0	0.00	0	0.00	0	0.00
16	XVI (P00 - P96)	Certain conditions originating in the perinatal period	0	0.00	0	0.00	0	0.00
17	XVII (Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	26	0.82	28	1.68	54	1.12
18	XVIII (R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	37	1.17	13	0.78	50	1.04
19	XIX (S00 - T98)	Injury, Poisoning & certain other consequences of external cause	287	9.08	100	6.00	387	8.01
		TOTAL	3161	100.00	1668	100.00	4829	100.00

Death According to Age Group

Kochi Corporation 1999

Sl No	Age Group	No.	%
1	Below 1 Year	164	4.59
2	1-14	37	1.04
3	15-44	733	20.50
4	45 and Above	2640	73.87
TOTAL		3574	100.00

Appendix 2

**Percentage Ranking of Death based on Major Disease
Sex wise details of medically certified deaths in Kochi Corporation 1999**

Sl. No	Code	Headings	Male %	Female %	Total %
1	IX(I00 - I99)	Disease of the circulatory system	41.25	41.93	41.52
2	II(C00 - D48)	Neoplasms	11.04	15.15	12.67
3	X(J00 - J98)	Diseases of respiratory system	10.81	11.49	11.08
4	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	7.80	7.05	7.50
5	XIV(N00 - N99)	Diseases of the genito urinary system	7.05	6.55	6.86
6	XI(K00 - K92)	Diseases of the digestive system	7.29	3.52	5.79
7	I(A00 - B99)	Certain infectious & parasitic diseases	5.80	3.88	5.04
8	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	4.22	4.65	4.39
9	VI(G00 - G98)	Diseases of the nervous system	2.97	2.18	2.66
10	XVI(P00 - P96)	Certain conditions originating in the perinatal period	1.16	2.04	1.51
11		Others	0.61	1.56	0.98
		TOTAL	100.00	100.00	100.00

Appendix 3
Sex wise details of medically certified deaths in Kochi Corporation 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	125	5.80	55	3.88	180	5.04
2	II(C00 - D48)	Neoplasms	238	11.04	215	15.15	453	12.67
3	III(D50 - D88)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	2	0.09	2	0.06		
4	IV(E00 - E88)	Endocrine, Nutritional & metabolic diseases	91	4.22	66	4.65	157	4.39
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance						
6	VI(G00 - G98)	Diseases of the nervous system	64	2.97	31	2.18	95	2.66
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						
10	X(J 00 - J 98)	Diseases of respiratory system	889	41.25	595	41.93	1484	41.52
11	XI(K00 - K92)	Diseases of the digestive system	233	10.81	163	11.49	396	11.08
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue	157	7.29	50	3.52	207	5.79
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue						
14	XIV(N00 - N99)	Diseases of the genito urinary system	8	0.37	6	0.42	14	0.39
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium	152	7.05	93	6.55	245	6.86
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	12	0.85	12	0.34		
17	XVII(Q00 - Q99)	Congenital malformation & deformities	25	1.16	29	2.04	54	1.51
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	3	0.14	4	0.28	7	0.20
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	168	7.80	100	7.05	268	7.50
			2155	100.00	1419	100.00	3574	100.00

Appendix 4 Below 1 Year
Sexwise details of medically certified infant deaths in Kochi Corporation 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	18	20.45	22	28.95	40	24.39
2	II(C00 - D48)	Neoplasms						
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	6.82	6	3.66		
6	VI(G00 - G98)	Diseases of the nervous system						
7	VIII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid	30	34.09	19	25.00	49	29.88
9	IX(I 00 - I 99)	Disease of the circulatory system	4	4.55	1	1.32	5	3.05
10	X(J 00 - J 98)	Diseases of respiratory system						
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	2	2.27	1	1.32	3	1.83
14	XIV(N00 - N99)	Diseases of the genito urinary system						
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	25	28.41	29	38.16	54	32.93
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	3	3.41	4	5.26	7	4.27
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	88	100.00	76	100.00	164	100.00

Appendix 5 1 to 14 years
Sex wise and age wise details of medically certified deaths in Kochi Corporation 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	2	10.00	0	0.00	2	5.41
2	II(C00 - D48)	Neoplasms	0	0.00	5	29.41	5	13.51
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	0	0.00	0	0.00	0	0.00
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	0	0.00	0	0.00	0	0.00
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance	0	0.00	0	0.00	0	0.00
6	VI(G00 - G98)	Diseases of the nervous system	2	10.00	3	17.65	5	13.51
7	VIII(H00 - H59)	Disease of the eye & Adnexa	0	0.00	0	0.00	0	0.00
8	VIII(H60 - H95)	Disease of the ear & mastoid	0	0.00	0	0.00	0	0.00
9	IX(I 00 - I 99)	Disease of the circulatory system	2	10.00	3	17.65	5	13.51
10	X(J 00 - J 98)	Diseases of respiratory system	3	15.00	1	5.88	4	10.81
11	XI(K00 - K92)	Diseases of the digestive system	3	15.00	0	0.00	3	8.11
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue	0	0.00	0	0.00	0	0.00
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue	0	0.00	0	0.00	0	0.00
14	XIV(N00 - N99)	Diseases of the genito urinary system	3	15.00	0	0.00	3	8.11
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium	0	0.00	0	0.00	0	0.00
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	0	0.00	0	0.00	0	0.00
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	0	0.00	0	0.00	0	0.00
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	0	0.00	0	0.00	0	0.00
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	5	25.00	5	29.41	10	27.03
		TOTAL	20	100.00	17	100.00	37	100.00

Appendix 6 15 to 44 years
Sex wise age wise details of medically certified deaths in Kochi Corporation 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	41	8.87	14	5.17	55	7.50
2	II(C00 - D48)	Neoplasms	36	7.79	67	24.72	103	14.05
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	2	0.43	0	0.00	2	0.27
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	5	1.08	1	0.37	6	0.82
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance	0	0.00	0	0.00	0	0.00
6	VI(G00 - G98)	Diseases of the nervous system	19	4.11	8	2.95	27	3.68
7	VII(H00 - H59)	Disease of the eye & Adnexa	0	0.00	0	0.00	0	0.00
8	VIII(H60 - H95)	Disease of the ear & mastoid	134	29.00	82	30.26	216	29.47
9	IX(I00 - I99)	Disease of the circulatory system	43	9.31	15	5.54	58	7.91
10	X(J00 - J98)	Diseases of respiratory system	58	12.55	13	4.80	71	9.69
11	XI(K00 - K92)	Diseases of the digestive system	0	0.00	0	0.00	0	0.00
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue	0	0.00	0	0.00	0	0.00
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue	44	9.52	35	12.92	79	10.78
14	XIV(N00 - N99)	Diseases of the genito urinary system	0	0.00	12	4.43	12	1.64
15	XV(O00 - O99)	Pregnancy, Childbirth & Puerperium	0	0.00	0	0.00	0	0.00
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	0	0.00	0	0.00	0	0.00
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	0	0.00	0	0.00	0	0.00
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	0	0.00	0	0.00	0	0.00
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	80	17.32	24	8.86	104	14.19
		TOTAL	462	100.00	271	100.00	733	100.00

Appendix 7 45 and Above
Sex wise and age wise details of medically certified deaths in Kochi Corporation 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	64	4.04	19	1.80	83	3.14
2	II(C00 - D48)	Neoplasms	202	12.74	143	13.55	345	13.07
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	0	0.00	0	0.00	0	0.00
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	86	5.43	65	6.16	151	5.72
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance	0	0.00	0	0.00	0	0.00
6	VI(G00 - G98)	Diseases of the nervous system	37	2.33	20	1.90	57	2.16
7	VII(H00 - H59)	Disease of the eye & Adnexa	0	0.00	0	0.00	0	0.00
8	VIII(H60 - H95)	Disease of the ear & mastoid	0	0.00	0	0.00	0	0.00
9	IX(I00 - I99)	Disease of the circulatory system	723	45.62	491	46.54	1214	45.98
10	X(J00 - J98)	Diseases of respiratory system	183	11.55	146	13.84	329	12.46
11	XI(K00 - K92)	Diseases of the digestive system	96	6.06	37	3.51	133	5.04
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue	0	0.00	0	0.00	0	0.00
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue	8	0.50	6	0.57	14	0.53
14	XIV(N00 - N99)	Diseases of the genito urinary system	103	6.50	57	5.40	160	6.06
15	XV(O00 - O99)	Pregnancy, Childbirth & Puerperium	0	0.00	0	0.00	0	0.00
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	0	0.00	0	0.00	0	0.00
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	0	0.00	0	0.00	0	0.00
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	0	0.00	0	0.00	0	0.00
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	83	5.24	71	6.73	154	5.83
		TOTAL	1585	100.00	1055	100.00	2640	100.00

Death According to Age Group

Kollam Municipality 1999

Sl. No	Age Group	No.	%
1	<i>Below 1 Year</i>	162	7.95
2	<i>1-14</i>	17	0.84
3	<i>15-44</i>	209	10.26
4	<i>45 and Above</i>	1361	66.81
	<i>Not stated</i>	288	14.14
	TOTAL	2037	100.00

Appendix 2
Percentage Ranking of Death based on Major Disease
Sex wise details of medically certified deaths in Kollam Municipality 1999

Sl. No	Code	Headings	Male %	Female %	Total %
1	IX (I 00 - I 99)	Disease of the circulatory system	54.50	48.24	52.23
2	IV (E00 - E89)	Endocrine, Nutritional & metabolic diseases	11.39	12.74	11.88
3	II (C00 - D48)	Neoplasms	6.54	7.72	6.97
4	I (A00 - B99)	Certain infectious & parasitic diseases	5.77	8.67	6.82
5	XIX (S00 - T98)	Injury, Poisoning & certain other consequences of external cause	6.08	6.10	6.09
6	X (J 00 - J 98)	Diseases of respiratory system	3.62	4.20	3.83
7	XI (K00 - K92)	Diseases of the digestive system	3.70	2.17	3.14
8	XVI (P00 - P96)	Certain conditions originating in the perinatal period	2.08	2.98	2.41
9	XIV (N00 - N99)	Diseases of the genito urinary system	2.08	2.44	2.21
10	XVIII (R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	2.54	1.49	2.16
11		Others	1.70	3.25	2.26
TOTAL			100.00	100.00	100.00

Appendix 3
Sex wise and age wise details of medically certified deaths in Kollam Municipality 1999

Sl. No	Code	Headings	Male	%	Femal e	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	27	2.08	22	2.98	49	2.41
2	II(C00 - D48)	Neoplasms	85	6.54	57	7.72	142	6.97
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	7	0.54	9	1.22	16	0.79
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	148	11.39	94	12.74	242	11.88
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance	1	0.08	1	0.14	2	0.10
6	VI(G00 - G98)	Diseases of the nervous system	10	0.77	10	1.36	20	0.98
7	VIII(H00 - H59)	Disease of the eye & Adnexa						
8	VIII(H60 - H95)	Disease of the ear & mastoid	708	54.50	356	48.24	1064	52.23
9	IX(I 00 - I 99)	Disease of the circulatory system	47	3.62	31	4.20	78	3.83
10	X(J 00 - J 98)	Diseases of respiratory system	48	3.70	16	2.17	64	3.14
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	27	2.08	18	2.44	45	2.21
14	XIV(N00 - N99)	Diseases of the genito urinary system	1	0.14	1	0.05	2	0.10
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium	75	5.77	64	8.67	139	6.82
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	4	0.31	3	0.41	7	0.34
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities						
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	33	2.54	11	1.49	44	2.16
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	79	6.08	45	6.10	124	6.09
		TOTAL	1299	100.00	738	100.00	2037	100.00

Appendix 4 Below 1 Year
Sex wise and age wise details of medically certified deaths in Kollam Municipality 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	1	1.16	4	5.26	5	3.09
2	II(C00 - D48)	Neoplasms						
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						
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	2	2.33	3	3.95	5	3.09
10	X(J00 - J98)	Diseases of respiratory system	3	3.49	2	2.63	5	3.09
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	2	2.33	2	1.23		
15	XV(O00 - O99)	Pregnancy, Childbirth & Puerperium						
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	75	87.21	64	84.21	139	85.80
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	3	3.49	3	3.95	6	3.70
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						
		TOTAL	86	100.00	76	100.00	162	100.00

Appendix 5 1 to 14 years
Sex wise and age wise details of medically certified deaths in Kollam Municipality 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	0	0.00	2	18.18	2	11.76
2	II(C00 - D48)	Neoplasms	0	0.00	0	0.00	0	0.00
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	0	0.00	0	0.00	0	0.00
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	0	0.00	0	0.00	0	0.00
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance	1	16.67	0	0.00	1	5.88
6	VI(G00 - G98)	Diseases of the nervous system	0	0.00	0	0.00	0	0.00
7	VII(H00 - H59)	Disease of the eye & Adnexa	0	0.00	0	0.00	0	0.00
8	VIII(H60 - H95)	Disease of the ear & mastoid	0	0.00	0	0.00	0	0.00
9	IX(I00 - I99)	Disease of the circulatory system	1	16.67	3	27.27	4	23.53
10	X(J00 - J98)	Diseases of respiratory system	2	33.33	4	36.36	6	35.29
11	XI(K00 - K92)	Diseases of the digestive system	1	16.67	0	0.00	1	5.88
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue	0	0.00	0	0.00	0	0.00
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue	0	0.00	0	0.00	0	0.00
14	XIV(N00 - N99)	Diseases of the genito urinary system	0	0.00	0	0.00	0	0.00
15	XV(O00 - O99)	Pregnancy, Childbirth & Puerperium	0	0.00	0	0.00	0	0.00
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	0	0.00	0	0.00	0	0.00
17	XVII(Q00 - Q99)	Congenital malformation & deformities	1	16.67	0	0.00	1	5.88
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	0	0.00	0	0.00	0	0.00
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	0	0.00	2	18.18	2	11.76
		TOTAL	6	100.00	11	100.00	17	100.00

Appendix 6 15 to 44 years
Sex wise and age wise details of medically certified deaths in Kollam Municipality 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	6	4.65	4	5.00	10	4.78
2	II(C00 - D48)	Neoplasms	11	8.53	2	2.50	13	6.22
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	2	1.55	1	1.25	3	1.44
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	9	6.98	5	6.25	14	6.70
5	V(F00 - F99)	Mental & behavioral disorder due to psycho active substance	0	0.00	0	0.00	0	0.00
6	VI(G00 - G98)	Diseases of the nervous system	5	3.88	3	3.75	8	3.83
7	VII(H00 - H59)	Disease of the eye & Adnexa	0	0.00	0	0.00	0	0.00
8	VIII(H60 - H95)	Disease of the ear & mastoid	0	0.00	0	0.00	0	0.00
9	IX(I00 - I99)	Disease of the circulatory system	39	30.23	29	36.25	68	32.54
10	X(J00 - J98)	Diseases of respiratory system	6	4.65	5	6.25	11	5.26
11	XI(K00 - K92)	Diseases of the digestive system	9	6.98	1	1.25	10	4.78
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue	0	0.00	0	0.00	0	0.00
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue	0	0.00	0	0.00	0	0.00
14	XIV(N00 - N99)	Diseases of the genito urinary system	5	3.88	4	5.00	9	4.31
15	XV(O00 - O99)	Pregnancy, Childbirth & Pauperism	0	0.00	1	1.25	1	0.48
16	XVI(P00 - P98)	Certain conditions originating in the perinatal period	0	0.00	0	0.00	0	0.00
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	0	0.00	0	0.00	0	0.00
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	5	3.88	4	5.00	9	4.31
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	32	24.81	21	26.25	53	25.36
		TOTAL	129	100.00	80	100.00	209	100.00

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Appendix 7 45 and Above
Sex wise and age wise details of medically certified deaths in Kollam Municipality 1999

Sl. No	Code	Headings	Male	%	Female	%	Total	%
1	I(A00 - B99)	Certain infectious & parasitic diseases	16	1.81	9	1.89	25	1.84
2	II(C00 - D48)	Neoplasms	62	7.01	52	10.92	114	8.38
3	III(D50 - D89)	Diseases of blood & blood forming organs and certain disorders involving the immune mechanism	3	0.34	5	1.05	8	0.59
4	IV(E00 - E89)	Endocrine, Nutritional & metabolic diseases	117	13.22	76	15.97	193	14.18
5	VI(F00 - F99)	Mental & behavioral disorder due to psycho active substances	0	0.00	1	0.21	1	0.07
6	VI(G00 - G98)	Diseases of the nervous system	4	0.45	5	1.05	9	0.66
7	VII(H00 - H59)	Disease of the eye & Adnexa	0	0.00	0	0.00	0	0.00
8	VIII(H60 - H95)	Disease of the ear & mastoid	0	0.00	0	0.00	0	0.00
9	IX(I00 - I99)	Disease of the circulatory system	568	64.18	275	57.77	843	61.94
10	X(J00 - J98)	Diseases of respiratory system	28	3.16	16	3.36	44	3.23
11	XI(K00 - K92)	Diseases of the digestive system	25	2.82	13	2.73	38	2.79
12	XII(L00 - L98)	Diseases of the skin & subcutaneous tissue	0	0.00	0	0.00	0	0.00
13	XIII(M00 - M99)	Diseases of musculoskeletal system & connective tissue	0	0.00	0	0.00	0	0.00
14	XIV(N00 - N99)	Diseases of the genito urinary system	15	1.69	11	2.31	26	1.91
15	XV(O 00 - O 99)	Pregnancy, Childbirth & Puerperium	0	0.00	0	0.00	0	0.00
16	XVI(P00 - P96)	Certain conditions originating in the perinatal period	0	0.00	0	0.00	0	0.00
17	XVII(Q00 - Q99)	Congenital malformation & deformities Chromosomal abnormalities	0	0.00	0	0.00	0	0.00
18	XVIII(R00 - R99)	Symptoms, signs & abnormal clinical laboratory findings not elsewhere classified	17	1.92	4	0.84	21	1.54
19	XIX(S00 - T98)	Injury, Poisoning & certain other consequences of external cause	30	3.39	9	1.89	39	2.87
		TOTAL	885	100.00	476	100.00	1361	100.00