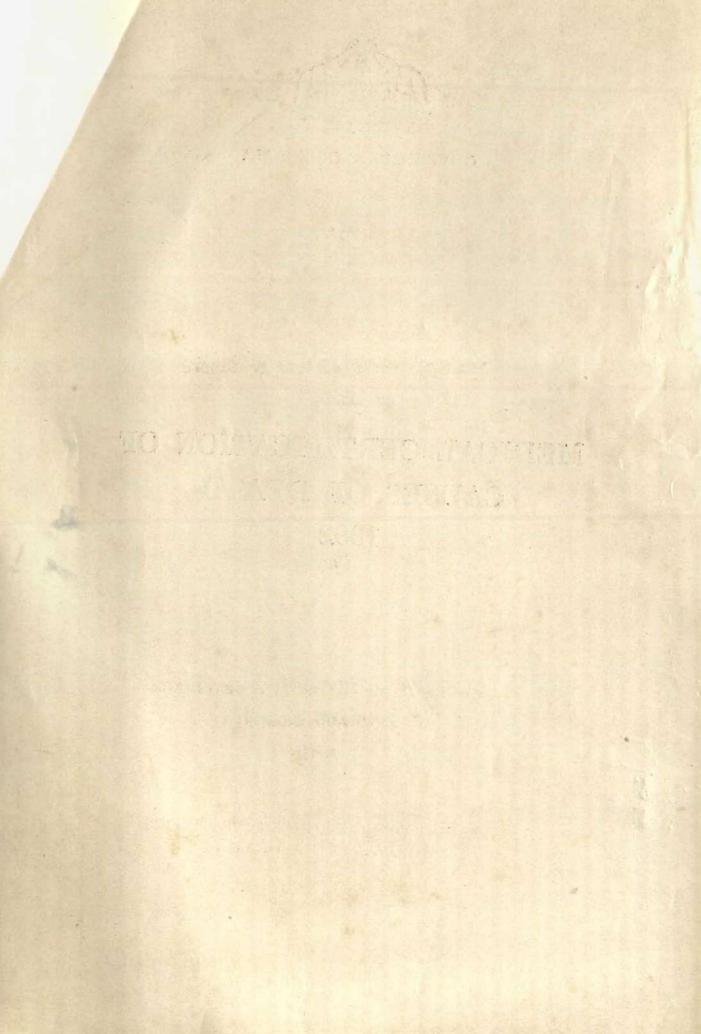
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# MEDICAL CERTIFICATION OF CAUSES OF DEATH 1992

DEPARTMENT OF ECONOMICS & STATISTICS
THIRUVANANTHAPURAM



GOVERNMENT OF KERALA

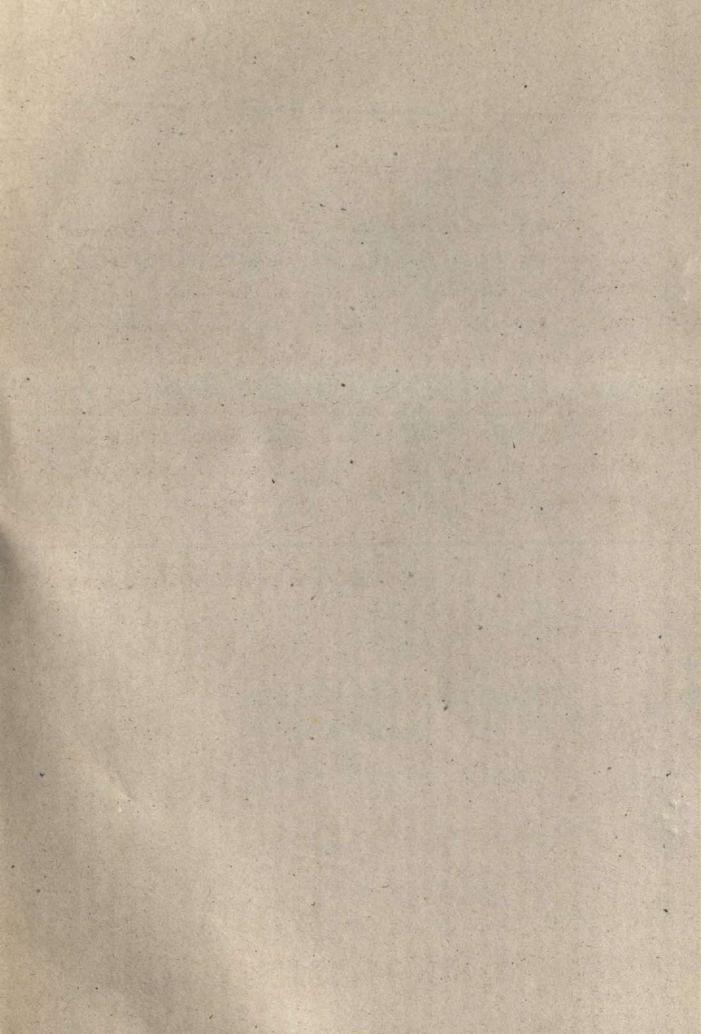
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MEDICAL CERTIFICATION OF CAUSES
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1992

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THIRUVANANTHAFURAM

1995



#### PREFACE

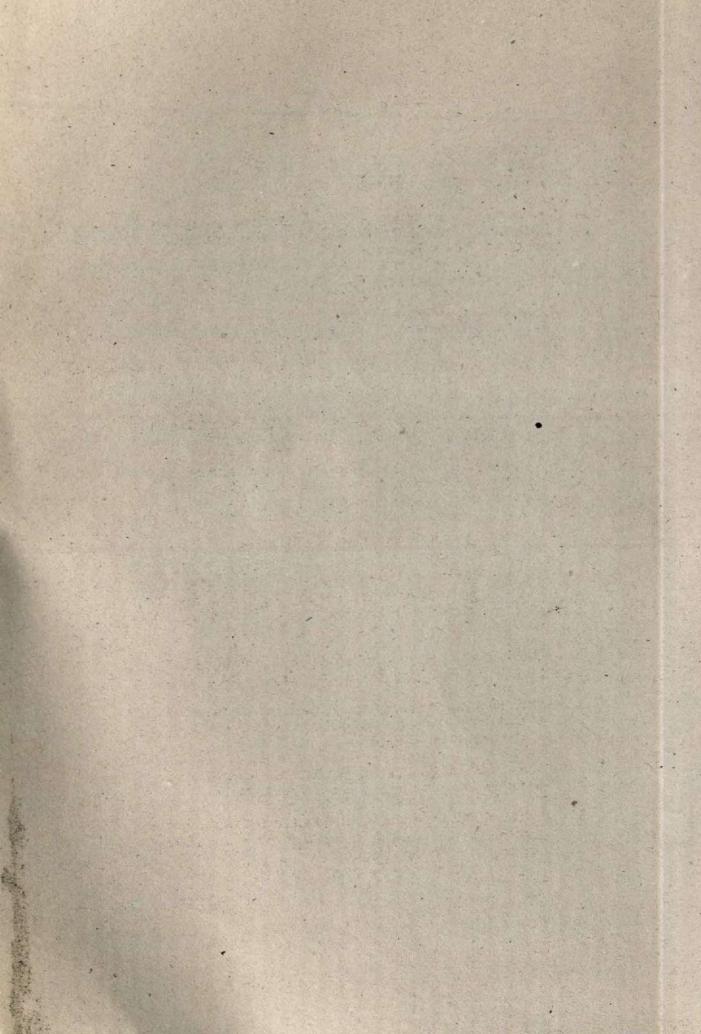
The Scheme "Medical Certification of Cause of Death" was introduced in the State in the three City Corporations of Thiruvananthapuram, Kochi and Kozhikode and two Municipalities of Kollam and Alappuzha with a view to obtain reliable data in the underlying causes of death.

The report dealing with mortality by causes occurred in the City Corporation of Kozhikode and Municipalities of Kollam and Alappuzha during the year 1992 was prepared by the Vital Statistics Unit of this Department.

DR.M.KUTTAPPAN DIRECTOR OF ECONOMICS & STATISTICS

Thiruvananthapuram,

31--5--1995.

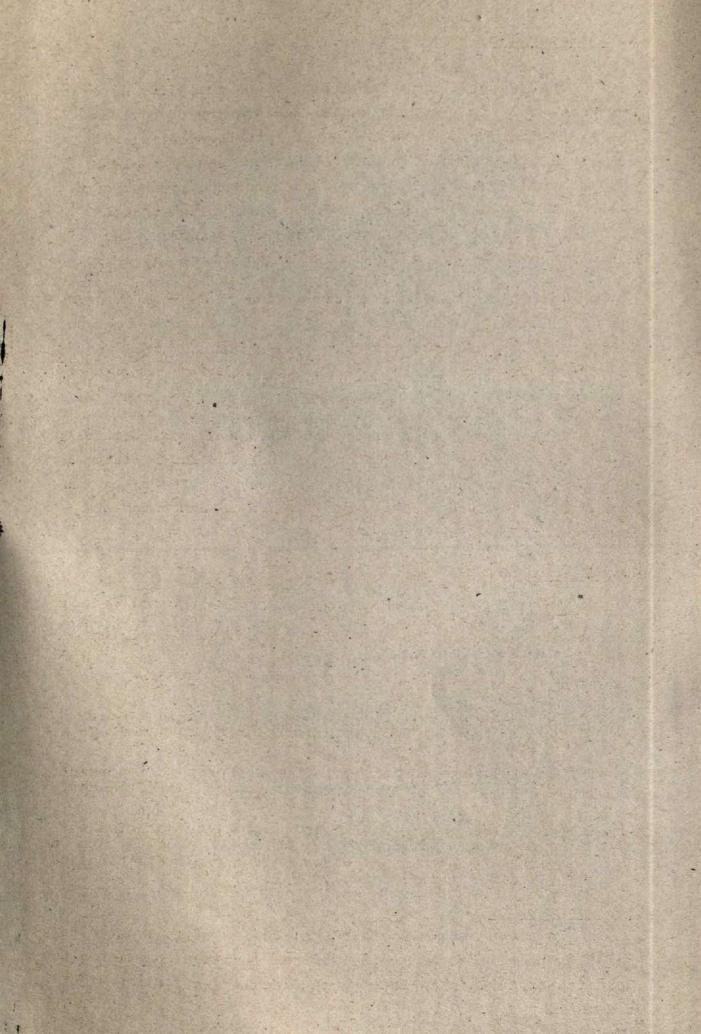


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#### 1. Introduction

The reliable data on morbidity and mortality have an important role in planning and implementation of various health improvement schemes. The importance of Statistics of mortality by causes in understanding disease problems and determining the steps to be taken for the promotion of health care need no emphasis. The health administrators made use of cause of death statistics for measuring the effectiveness of various health services schemes as well.

The Scheme "Medical Certification of Cause of Death" was introduced in the State in 1969. The scheme though with its inherrent draw backs, provides leading guidelines to medical practitioners, Social workers, Policy formulators and other interested in the field.

This report deals with the analysis of cause of death in the Corporation of Kozhikode and in the Municipalities of Kollam and Alappuzha. The post of Deputy Health Officer in charge of the scheme was vacant in Thiruvananthapuram and Kochi Corporations during 1992.

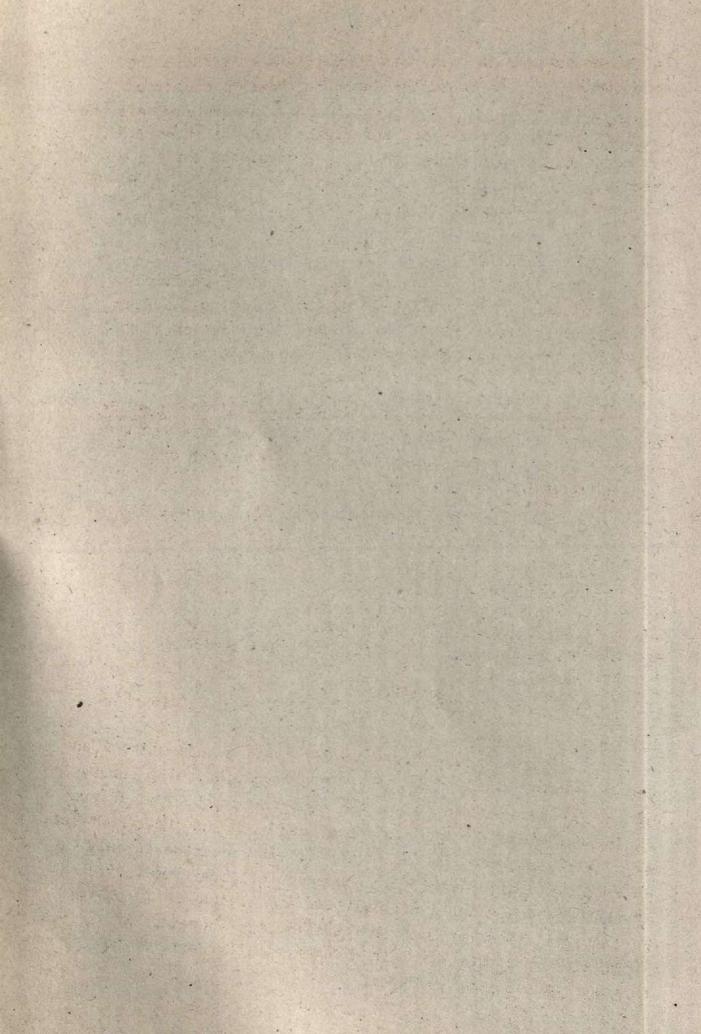
#### 1.1 Objectives

The main objectives of the Scheme are the following:

- (i) To obtain reliable information on the underlying cause of death.
- (ii) To pin point the leading causes of death for males and females.
- (iii) To identify individual causes of death in certain special groups such as infants, mothers and aged persons.
  - (iv) To study the mortality pattern of certain important diseases like heart diseases, tuberculosis, Cancer, etc.
    - (v) To enable public health and medical authorities to undertake specific investigation and studies into the mortality pattern of diseases for the evaluation and Planning of health activities.

#### 1.2 Methodology

The scheme envisages the collection of relevant data relating to all deaths in the medical institutions within the Corporation/Municipal area, having facilities for impatient treatment.



It is the duty of the attending physicians to furnish the required details on causes of death in the form prescribed for it. The cause of death certificate collected from all the institutions are scrutinised and causes of death identified and coded by the Deputy Health Officer appointed for the purpose. For coding the cause of death, the list A of the international classification of diseases (IX Revisions) is adopted.

#### 1.3. Cause of Death.

Cause of death is defined as the morbid condition or disease process, abnormality, enjury or poisoning leading directly or indirectly to death. Every death is likely to have multiple causes and death occurs only as a result of a chain of causes.

- In this report, only the major causes of death which account for at least 3% of death in any one or more centres are analysed in detail. The causes of death which are insignificant are grouped under "others".

The following are found to be the major causes of death.

- Heart diseases. 1.
- Cerebrovascular diseases. 2.
- Diseases of the Respiratory system. 3.
- Accidents, injuries and poisoning. 4.
- Conditions originating in the perinatal period. 5.
- Neoplasam. 6.
- Diseases of the digestive system. 7.
- Nutritional & Metabolic diseases and immunity disorders. 8.

#### 1.4 Limitations.

The survey covers the city corporation of Kozhikode and the two municipalities viz. Kollam and Alappuzha. The survey has not been conducted in the two city corporations of Thiruvananthapuram and Kochi; since the post of Deputy Health Officer was vacant in these two Corporations. The coverage is only a portion of total deaths, when compared to large number of deaths occured in the municipalities and cities in the State, having facilities for impatient treatment. Therefore the indication on causes of death given in this report can not be taken as a common evidence.

1.5 Heart disease was the most predominent cause of death in all the three centres and the percentage is higher among males than females. It is also significant to note that the people most affected by heart disease were in the age group of 45 and above.

The cause of death medically certified reported from Kozhikode Corporation and in the two municipalities of Kollan and Alappuzha are dealt with in detail in the following paragraphs.

#### 2. Kozhikode Corporation

Kozhikode Corporation has an area of 82.7 sq.kms. with a population of 4.2 lakhs having a density of population 5079 per sq.km. as per 1991 census.

During the year under report 4981 instance of medically certified deaths have been considered for analysis as against 4999 cases during the previous year (1991)

# 2.2 Sex wise distribution of the leading causes of death Appendix - I

Among the 4981 medically certified deaths 3244 (65.13%) were of males and 1737 (34.87%) were of females.

#### 2.3 Causes of Death

The deaths due to different causes are analysed below.

## 1. Intestinal Infectious diseases - Code I (001-009)

2.67% of he total medically certified deaths was due to this cause during the year under report in this corporation area, with male and female break up of 2.31% and 3.34% respectively. The corresponding percentage during the previous year (1991) was 3.78 with male and female break up of 3.08 and 5.10 respectively.

contd...4.

#### 2. Tuberculosis - Code I (010-018)

Out of the total medically certified deaths reported deaths due to luberculosis were 3.11% with male and female break up of 3.76% and 1.90% respectively.

#### 3. Other bacterial diseases - Code I (020-041)

About 3.73% of the total deaths was due to this cause 3.48% of the victimus were males and 4.20% were females.

#### 4. Viral diseases - Code I (045-079)

Deaths due to viral diseases accounted for 3.03% of the total medically certified deaths during the year under report with male and female break up of 2.28% and ... 4.43% respectively in this corporation as against 2.92% in the previous year (1991)

#### 5. Ne oplasms - Code II (140-239)

9.76% of the total deaths reported was of this cause with a male and female breakup of 10.54% and 8.29% respectively.

# 6. Nutritional and Atabolic diseases and immunity disorders Code III (240-279)

Deaths due to this disease constituted 3.35% of the total medically certified deaths with a male and female break up of 3.55% and 2.99% respectively.

# 7. Disease of the previous system and sense organs (Code VI -(320-389)

2.91% of the deaths reported was of this cause, the male and female breakup being 2.59% and 3.51% respectively.

contd...5

#### 8. Heart Liseases Code VII (390-429)

Heart disease proved to be the major cause of death in Kozhikode corporation as in previous years, but showed a slight decrease when compared to that in the previous year. The percentage of death due to this cause was 21.12% with male and female break up of 23.49% & 16.70% respectively.

#### 9. Oerebro vascular diseases Code VII (430-438)

Teath due to this disease was 9.26% with male and female break up of 8.26% and 11.11% respectively.

#### 10. Disease of the Respiratory System (Code VIII (460-519)

8.15% of the total death reported was of this cause with male and female breakup of 7.96% and 8.52% respectively.

#### 11. Tiseases of the digestive system Code IX (520-579)

Leath due to this cause occounted for 6.42% of the total deaths with male and female share of 7.4% and 4.61% respectively.

# 12. Conditions originating in the Perinatal period Code XV (760-779)

This cause ranked as the 2nd major cause of death during the year uncer report with 9.8% with a male shalle of 8.94% and a female share of 11.52%.

# 13. Signs, Symptoms & 1 all defined conditions (Code XVI (780-799)

Only 5 cases of ceaths were reported from Kozhikode corporation due to this cause, the percentage being 0.10%.

14. Accidents, Injuries & Poisoning Code XVII (800-999)

The percentage of deaths due to this cause was 9.64% with 10.33% among males & 8.35% among females.

#### 15. Other Causes

Causes other than those mentioned above attributed to 6.91% of the total 'death with male share of 5.02% & female share of 10.42%.

#### 2.4 Teath according to age Appendix II

Age wise analysis of deaths is detailed below.

#### 1. Pelow 1 year (Infant deaths)

Out of the 4981 ceaths reported during the year in the corporation, 804 (16.14%) ceaths were among infants due to different fauses. The most predominent cause of death in this age group was conditions originating in the perinatal period (60.45%) followed by diseases of the respiratory system (10.20%). Other major causes of deaths among the infants were other bacterial diseases (9.45%), diseases of the nervous system and sense organs (5.60%) and causes other than those mentioned above (5.72%).

#### . 2. <u>1--14 years:</u>

7.67% the total deaths were under this age group.

1--14 years the three important causes of death in this age group were viral diseases (16.75%) accidents injuries and poisoning (15.71%) and diseases of the resuiratory system (12.04%). The major causes of deaths in the age group were intestinial infections diseases (10.21%) diseases of the nervous system (8.12%). The deaths due to causes other than those mentioned above constituted 9.68%.

#### 3. 15-44 years

Out of the total 4981 deaths 1065(21.38%) deaths were among this age group. Accidents, injuries and poisoning claimed 21.5% of the total deaths in this age group, followed by heart diseases(14.46%). The other important causes of deaths in this age group were neoplasms(9.95%) diseases of the resporatory system (8.92%) and diseases of the digestivesystem (7.70%). 3.29% of the deaths in this age group were of tuberculosis, 3.85% were of other bacterial diseases. 4.23% were of viral diseases. 14.36% of deaths in this age group were due to causes other than those mentioned above.

#### 4. 45 years and above.

Deaths in this age group constituted 54.81% of the total deaths reported. Heart diseases stood first among the causes of deaths in this age group with 32.34% of the total deaths. Cerebro vascular diseases occupied the 2nd place (15.71%). The other important causes were Meoplasms (12.53%), diseases of the digestive system (7.33%) diseases of the respiratory system (6.70%). Accidents, injuries and poisoning caused 6.78% of the total deaths in this age group. 5.06% of the deaths were due to Nutritional 3 Metabolic diseases and Immunity disorders and 3.77% were of tuberculosis.

contd....

### 2.5 Domiciliary Deaths Appendix III

Out of the total 238 domiciliary deaths verified by the Deputy Health Officer 36 were of senility and illdefined condition 33 were of pneumonia and Bronchitts 31 were of anaemia 28 were of Pulmonary tuberculosis and 27 were of heart diseases. 25 deaths were due to enteritis and gastro enteritis. 23 were of diabetes mellitus.

#### 2.6 Summary

- (i) Heart diseas was the major cause of death in this corporation. Deaths due to this cause comparatively high in males than in females. The percentage of deaths due to this cause was highest in the age group 45 and above.
- (ii) Conditions originating in the perinated period a stood 2nd among the leading causes of deaths, followed by accidents, injuries and poisoning.
- (iii) 60.45% of the total deaths among infants were of causes originating in the perinatal period.
- (iv) It is significant to note that deaths due to accidents, injuries and poisoning were greater in the age group 15-44 (21.50%)

contd.....

- (v) Vival desease was the first among the di eases in the age group 1-14 years (16.75;)
- A comparative study of the leading causes of death in tozhikode Corporation during the past five years

#### APPENDIALIV

- 1) heart disease was the leading cause of death during the years 1988 to 1992.
- (ii) Deaths due to perinated causes stood second, followed by cerebre vascular diseases.
- (iii) Deaths due to diseases of the respiratory system, neoplasme, accidets injuries and poisening were among the major causes of diseases during these 30 years.
- (iv) Deaths due to tuberculosis showed a decling trend.
  - (v) Deaths due to accidents, injuries and poisoning showed and increasing trend.

#### Conclusion

Heart disease was found to be the major killer disease as in the previous years. Other important major causes of death were conditions originating in the perinatal period, accidents injuries and poisoning, and exceptovascular diseases.

#### 4. Rollam Municipality:

The population of Pollam Funicipalit was 1.40 lakhs as per 1991 census having an area of 18.48 kms. The density of population per sq. km. was 756%. The number of medically certified cases of deaths received from this Municipality was 1635. The male and female breake up being 1035 and 600 respectively.

3.1. causes of death Sexwise distribution of leading Causes of cleath

Appendex V

the year, 1035 (63. 30%) were of males and 600 (36.70%) were of females.

Causes of Death

Distribution of deaths due to different leading causes is given below.

(1) Intestinal Infections deseases

Code-I (001-009)

Cut of the total deaths, deaths due to intestinal infections diseases constituted 2.02% during the year under report. The male & female break up of 2.03% and 1.63%, respectively. The corresponding percentage during 1991 was 3.23%

contd....

- (ii) Tuberculosis: Code (010-D18) out of the total reported deaths, deaths are to tuberculculs was 3.79% with a male and female percentage of 4.35 and 2.67 respectively. The corresponding percentage during 1991 was 3.18.
- (iii) other Jacterial diseases Code-I (020-C41)

  Cut of the total deaths, deaths due to this cause

  were 2.8% with a male and female share of 3.0% and 2.50,

  respectively.
  - (iv) Viral diseases: Code I 040-079)

1.04% of the total deaths reported from this municipality was of this cause with a male and female share of 0.4%, and 2.00% respectively.

- (v) Neoplasums Code II (140-239)

  4.89, of the total deaths were due to this cause, with a male and female share of 5.22% and 4.33% respectively.
- (vi) Putritional and metabolic deseases and immunity
  Disorders Code 11 (246-279)

deaths due to this case was 7.77% with a male and female share of 6.86% and 9.16% respectively.

(vii) Deseases of the nervous system and sense organs
Code (vi) (320-389)

4.46% of the total deaths reported was due to this cause with a male and Semale share of 4.96% & 5.17% respectively.

(viii) Heart diseases: Code (vii) (390-429)

in this municipality also. Its share was 26. 54% of the total deaths. Deaths due to this cause was comparatively higher in males than females, the male and female share being 28.41% and 23.33% respectively.

#### IX Carebro Vascular Diseases Code v11,430-438)

3.81% of the total deaths in this centre ware of this cause, the males female share being 7.83 and 10.50 / respectively.

I. Piseases of the Respirating System Code VIII(460-519)

out of the total deaths 11.99% were of this cause.

The male & female percentage were 12.46 &11.17 respectively.

XI. Diseases of the Digestike System Code 17,520-579)

5.08% of the total deaths were due to this cause, the male & female share being 6.47 and 2.67 respectively.

XII Conditions originating inthe Perinatal period Code XV (760-779)

6.97% of the total deaths were due to this cause the male and female break up being 6.86% and 7.17% respectively.

XIII Signs, Symptoms & Illdiffined Conditions Code XVI
780-799)

2.94% of the total deaths were due to this cause, with a male and female break up of 2.90% and 3% respectively.

## XIV Accidents, Injuris and poisoning Code XVI

#### 780-700

Out of the total deaths 5.93% were due to this cause, the male and female share being 6.18% and 5.5% respectively.

#### AV. Others Causes

causes other than those mentioned above attributed to 4.89, of the total deaths with 2.70%, among male and % among females.

.....15

Age wise analysis of cause of death in four age groups viz. below I year, 1-14,15-44 and 45 above is attempted below.

- (1) Below I year 10.83% of the total deaths reported were under this age group of below one year (infants) During the previous year (1991) this was 13.05% conditions originating in the perinatal period ranked first claiming 64.41% of the total deaths in this age group.
- group of 1-14 years. Deaths in this age group has decreased considerably when compared to that of the previous year (1991) when it was 4.03, Diseases of the respiratory system ranked first among thecauses ofdeaths in this age group ie. 25%. Intestinal infections disease was also one of the major causes of death in this age group 15.00. Other significant causes in this age group were diseases of the nervous system and sense organs (11.36%) heart diseases (9.09%) other bacterial diseases (9.09%) and viral diseases (6.82%). Accidents, injuries and poisoning accounted. 4.55% of the total deaths in this age group.
- iii) 15-44 years 12.91% of the total deaths were occured in this age group of 15-44 years while it was 12.03% during the previous year (1991). The two major killer diseases in this age group were accidents, injuries and poisoning (24-17%) followed by heart diseases (18.48%).

Out of the total deaths, 73.58% of deaths were under this age group of 45 and above. Heart disease was the major killer disease in this age group with 32.25% of the total deaths. The 2 nd place was occupied by diseases of the respiratory system with 12.97% followed by Corebrovascular diseases (11.31%). The other important causes of deaths were nearlasms (5.57%) diseases of the digistive system (5.15) tuberoulosis (4.41%) diseases of

the nervous system and some organs (4.24%) Accidents injuries and poisoning claimed 3.57% of total deaths. 5.15% of the deaths were due to causes other than those mentioned above.

- 2.3 Conclusion(1) As in previous years, heart disease contained to be the major killor disease in this municipality also claiming 26.54% of the total deaths. This was most dominent in the age group 45 and above. The other major diseases were diseases of the respirating system. (11.99%). Cerebro vascular diseases (8.81%) Nutritional and metabolic diseases and immunity desorders (7.77%).
- (2) 64.41% of deaths among infacts were due to conditions originating in the perinatal period.
- 3) It is significant to note that deaths due to accidents injuries and poisoning were the greatest in the age group of 15-44 years (24.17%).
  - 4) Diseases of the respiratory system was the first among the deseases in the age roup of 1-14 years (25%).

#### 4. Alappuzha Municipality

According to 1991 census the population of Alappuzha Municipality was 1.75 lakhs with an area of 47 sq.kms. The density of population per squ.km was 3723.

The number of Medically Certified cases of cleaths Becuived in this municipality were 1185, with a male and female break up of 699 (58.99) 486 (41.01%) respectively.

4.2 Causes of Death Appendex VII

The deaths due to different causes are analysed below.

- (i) Intestinal infectious diseases (01-009) Code T
- 2.62% of total deaths in this municipality were due to this cause during the year under report with a male and female share of 1.43% and 4.32% respectively. During the year 1991, the corresponding percentage was 4.49%.
- (2) Tuberculosis Code I (010-018)

cut of the total deaths, deaths due to this cause were 2.62% with a male and female percentage of 3 and 2.06 respectively. The deaths due to this cause during 1991 was 4.20%.

- (3) Other Bacterial diseases Code I (020 041)
- 4.\$1% of the total deaths were due to this eause with a male and female share of 4.58% and 5.14% respectively. 4) Viral diseases Code I (045-079)

Deaths due to Viral deseases accounted for 1.01% of the total deaths the male and female share being 1 % and 1 03% respectively.

- 5. Neoplasms Code II 140-239)
- 4.73% of the total deaths were due to neoplasma, the male and female share being 4.44% and 5.14% respectively.
- 6. Nutritional and metabolic diseases and immunity disorders.

The detahs due to this cause were 2.7% of the total deaths, the male and female break up being 2.58% and 2.88% respectively.

7. Diseases of the nervous systems and sense organs. Code VI (320-389)

5.91% of the total deaths were due to this cause with a male share of 4.86% and a female share of 7.41%.

5. 11 5 05 m

8. Heart diseases - Heart diseases proved to be the major cause of death as in previous years also. (27.93%) 30.76% of the affected victims were male and 23.87% were female victims.

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#### 9. Cerebro Vascular diseases - Code VII (430-438)

this disease caused 10.38% of the total deaths in this Municipality the male and female share being 9.87% and 11.11% respectively.

#### 10. Diseases of the Resperating System - Code VIII (460-519)

8.44% of the total deaths were due to this cause, with a male and female share of 8.15% and 8.85% respectively.

#### 11. Diseases of he Digestive Systems

7.17% of the to all deaths were due to this causes the male and female share being 8.30% and 5.56% respectively.

## 12. Conditions Originating in the Perinatal period Code XV (760-779)

5.23% of the to al deaths were due to this cause, the male and female percentage being 4.58 and 6.17 respectively.

# 13. Signs symptoms and ill defined conditions - Code XVI (780-799)

1.94% of the total deaths were due to this cause \$\pm\$ the male and female share being 2% and 1.85% respectively.

#### 14. Accidents, Injuries and Poisoning - Code AVII (800-999)

8.52% of the total deaths were due to this causes, the male and female share being 8.73% and 8.23% respectively.

#### 15. Other causes

5.99% of the total deaths were due to causes other than those mentioned above with 5.72% among males and 6.38% among females.

## 4.3 Deaths according o age Appendix VIII

Age-wise analysis of death is detail d below.

1. Below 1 year (Infants) Of the 1185 deaths reported during the year under report, 147 deaths (12.41%) were among infants due to different causes. The most prodominent cause of death in this age group was conditions originating in the perinatal period. (40.82%), followed by diseases of the respiratory system (12.25%). Other bacterial diseases (10.20%) diseases of the nervous system (6.12%) heart diseases (4.08%) and diseases of the digestive system (3.40%) causes other than those mentioned above constituted 19.05% of total deaths among infants.

#### 2. 1 - 14 years

- 4.22% of the total deaths were under this age group of 1 14 years. The important causes of death in this age group were heart diseases (18%) accidents, injuries and poisoning (16%) diseases of the respiratory system (12%) diseases of the nervous system (12%). The other major causes of death in this age group were Other bacterial diseases (6%) neoplasms (6%) viral diseases (4%) Cerebrovascular diseases (4%) and diseases of the digestive system (4%). 12% of the total deaths under this age group were due to causes other than those mentioned above.
- 3. 15-44 years 17.38% of he total deaths were under this age group. Accidents, injuries and poisoning constituted 32.03% of the total deaths under this age group, followed by heart diseases (18.93%). The other important causes of deaths in this age group were diseases of the digestive system (8.74%) diseases of the respiratory system (6.80%) ceribro vascular diseases (6.31%) diseases of the nervous system (6.31%) Tuberculosis (3.88%) neoplasm (3.4%) and intestinal infectious diseases (2.91%). The causes other than those mentioned above constituted 4.37% of the total deaths under this age group.

  4. 45 years and above

Deaths in this age group constituted 65.99% of the total deaths reported in this municipality. Heart disease was the major killer disease under this age group (35.42%). \*\*Cerebro\* vascular diseases occupied the 2nd place with 13.68% of the deaths in this age group, followed by diseases of the

of the digestive system (7.67%). Neoplasms caused 5.75% diseases of the nervous system and sense organs 5.37% and other bacterial diseases 4.35%. 3.33% of death in this age, group were due to accidents, Injuries and poisoning. Intestinal infectious disease and tuberculosis caused 2.94% each of total deaths under this age group.

3.53% of deaths under these age group were due to causes other than those mentioned above.

#### 4.4 Conclusion

- (1) Heart disease continued to be the major killer disease in this municipality also claiming 27.93% of the total deaths 35.42% of the total deaths under the age group of 45 & above was due to this cause. The other major diseases were cerebro vascular diseases (10.38%) accidents, injuries and poisoning (8.52%) diseases of the respiratory system (8.44%) diseases of the digestive system (7.17%).
- (ii) 40.82% of deaths among infants were due to conditions originating in the perinatal period.
- (iii) 32.03% of the total deaths in the age group 15.44 years were due to accidents injuries and poisoning.

Appendix - I

13 (VI)	12 XV (73	11 IX(5)	TIIA OT	) IIV 6	3) IIV. 8	7 71()	5 [[[(245-279)	5 11(140.239)	4 I(045	3 I (020	1(010	1(00)1	31. Code No.	
(VI(780-799) (VII(800-999) Others	XV (750-799)	IX(520-579)	VIII(450-519)	VII (430-438)	VII (390-429)	VI(120.389)	)-279)	0.239)	(045-079)	(020-041)	(810-010)	(600-100)	No.	
Signs, Symptoms X ill definied conditions Accidents, injuris & poisioning Others	Conditions originating in the perinetal period	Diseases of the digestive system	Diseases of the Respiratory system	Cerebro Vascular diseases	Heart diseases	Diseases of the Nervous system & sense organs	Nutritional & Wetabolic diseases immunity diordess	Neoplasms	Verial diseases	Other Bacterial diseases	Tuberculosis	Intestinal Infectious Diseases	Cause of death	S
335	290	240	258	268	762	84	115	342	74	113	122	75	Male	
0.09	8.94	7.40	7.96	8.26	23.49	2.59	3.55	10.54	2.28	3.48	3.76	2.31	8	tified
145	200	80	148	193	290	61	52	144	77	73	33	58 1	Female	certified deaths in Kozhikoda
0.11 8.35	11.52	4.51	8.52	11.11	16.70	3.51	2.99	8.29	4.43	4.20	1.90	3.34	% :	in Koz
480	490	320	406	461	1052	145	167	486	151	186	155	133	Total	
0.10 9.64 6.91	9.84	5.42	<b>3.</b> 15	9.26	21.12	2.91	3.35	9.76	3.03	3.73	3.11	2.67	%	Corporation

# APPENTIX I

showing the deading causes of death in Kozhikode Corporation in 1992 according :

		16-XVII	13 XVI	×	11 IX	10 VII	VII	8 VII	7 VI		111 9	7	3,7 H	2 I	H H	MO. 1	
	others	16-XVII (800-999)	(780-799)	(760-779)	(520-579)	(460-519)	(430-438)	(390-429)	(320-389)		(240-279)	(1/0-030)	(020-041)	(010-018)	1000	bode No.	Ų
Total	Sucoscool.	7	Signs, Symptomes, Ill	Conditions originating in the perinatal period	Diseases of the Digestive12 system	Tiseases of the respi- ratory system	Cerebro vascular diseases 1	Heart Ciseases	nervous	diseases & Immunity	Me opiasms	Viral Cistases	Other Bacterial Ciseases76	Tuberculoris	infections	Cause of Leath Fe	
804	46	6	1	486	re12	.82	s 1	4	45	۲	10	, ,	76	2	25	relow 1 year	1
100	5.72	0.75	1	60.45	1.49	10.20	0.12	0.38	5.60	21.0	1.24	1.12	9.45	0.25	3.11	· %	
382	37	60	L	۲,	26	46	2	12	31	ω	200	-0,	18	15	39	1-14	to age
100	9.68	15.71	1	0.26	6.81	12.04	0.52	3.14	8.12	0.79			71	3.93	10.21	1 %	le group
1065	153	229	2	1	82	95		154	40	25			41	35	28	15-44	1
100.0	9.68 153 14.36 108	21.50 185	0.19	0.09	7.70	8.92		14 46	3.76	2,35	9.95	6.63	3.85	3.29	2.63	1 8	
100.00 2730	108	185	3	2	200	183	429	883	29	138	342		3 5 <u>1</u>	103	41	45 & above	1
100	3.96	6.78	0.11	0.07	7.33	6.70	15.71	33	1.06	5.06	12.53	1901	1.87	3.77	1.50	, %	1
4981	344	480	<b>U</b>	490	320	406	461	1050	145	167	486	1 1	161	155	133	Total	
100	6.91	.9.64	0.10	9.84	6.42	8.15	9.26	21 12	2.91	3.35	9.76		3 73	3.11	2.67	1 %	1 1 1

APPENDIX III

Domiciliary deaths in Kozhikode Corporation:

S1 No		Male	Female	Total
1.	Enterites and Gastro Enterites.	16	9	25
2.	Pulmonary Tuberculosis	15	13	28
3.	Septicemia	5	8	13
4.	Diabetic Mellitus	14	9	23
5.	Neoplasms	1	2	. 3
6.	Anemia	- 19	12	31
7.	Heart disease	18	9	- 27
8.	Pneumonia & Bronchitis	19	. 14	33
9.	Cirrhoses of Liver Illdefin	on 15	4	19
10.	Serility and intifined conditions	25	11	36
	Total	147.	91	238

Sex wise comparative soudy of leading causes of Death in Kozhikode Corporation during 1988 89,90,91 & 92. APPENDIX IV

9.	ø. •	7.	6.*		4	3.	2.	-		NS1	
Accidents, Injuries & poisoning	Intestinal infections diseases.	Other Bacterial diseases	Tuberculosis .	Diseases of the Respir- atory system.	Conditions originating in the perinatal period.	Neoplasms	Cerebrovascular diseases	Heart diseases		Cause of death	
7.36	2.10	5.16	4.91	8.34	11.75	9.09	11.25	19.51	Male %	1988	
7.01	3.55	7.11	3.31	8.10	14.78	: 7.49	11.37	15.59	Female %		
8.25	3.52	7.14	4.60	8.81	11.45	9.04	8.90	19.80	Male %		
6.24	4.22	9.70	2.77	9.06	14.15	7.39	9.81	15.42	Female %	1989	
11.92	2.90	5.30	2.90	7. 33		10.09	9.21	17.52	Male %	CONTRACTOR OF THE PARTY OF THE	
9.79	3.70	5.79	2.69	6.86	16.78	8.78	9.85	11.16	Female %		
8.28	3.08	3.79	3.94	8.00	8.83	10.32	8.49	23.52	Male %		
7.30	5,10	4.81	2.72	9.22	11.88	9.51	7.42	18.49	Female %	1991	
10.33	2.31	3.48	3.76	7.96	8.94	10.54	8.26	23.49	Male %		
8.35	3.84	4.20	1.90	8.52	11.52	8.29	11.11	16.70	Female %	1992	

Kollam Municipality	Total Percentage		62 3.79 47 2.88	17 1.04	80 4.89	127 7.77	73 4.46	434 25.54	144 8.81	196 11.99	83 5.08	114 6.97	48. 2.94	97 5.93	80 4.89	35 100.00
	le Percen- tage	1.83	2.50	2.00	4.33	9.16 1	5.17	23.33 4	10.50 L	,11.17 1	2.67	7.17	3.00	5.50	9.00.6	100.00 163
deaths in	en- Fema		17		97	55	31	140	63	29	91	43	13	33	52	009
X-V Certified	0 !	21 2.03 45 4.35	0,	5 0.48		72 6.36		N			0.47	98.9	2.90	6.18	2.70	100.00
Sex-vise details of medically cer	ctions disasses	000000000000000000000000000000000000000	Viral diseases		Nutriffonel 3 Natabolic diseases	Nurvous System		lar dispasse	Despiratory curtam	of the De of tive system	originating in	Signs, Symptoms & ill defined		full data and possoning	28	1035
Si. Code No.	I I (001-009)	3 I(020-041)		5 111 (240-239)	(512-513)	7 VI(320-339)	8 VII (390-429)	711(130-438)			12. (750-779)	18 (VI (780-799)	14 XVII(800-999)	15		M.1/28-2

Soxwise details of medically certs fied deaths in Alsoperate Manietpality

Potal	others	14. XVII(800-999) Accidents Injuries & Poisonary others	13. XVI(7.0-799) Signs Symptons & Ill defined coult tions	12. XV(760-779) Conditions originating in the period	10. VIII(460-519) Diseases of the Respiratory system .57 11. IX (520-579) Diseases of the Digestive system .58	0	8 VII(390-429) Heart diseases	) Mutritional & lotabolic diseases Immunity disorders			I(010-018) Tuber culesis	1. I(991-099) Intestinal Infectious diseases	1 2 3	Sl. Codo No. Cause of Death	SOXMISC described in mean carry, con white account to water
699	40	61	14.	32	.57 n .58	.69	34 215	18	31	38	21	10	4	Malo	יים מכ
100.00	5.72	8.73	2,00	4.58	8. 15 8. 30	9.87	4.86	55 80	4.44	4.58	3.00	1,43	5	Porcon- tage	C
486	. 31	40	. 9	30	43 27	54	36.	14	8,0	n M	15	12	· 01	Tomalo	The same of Aller
100.00	6.38	8.23	1.85	6.17	5.56	11.11	7.41 23.87	88	5.14	5.14	2.06	4,32	7	tago	
1185	71	101	23	co co	. 133 CCI	123	186	38	36	57	31	31	ω	T tal	
100.00	5.88	8.52	1.04	5.23	8.44 7.17.	10,38	27.03	2.70	4.73	1.81	4.62	2.62	0	Percen- tage	

Statement showing the leading equises of death in Kollam Municipality in 1992 according to age group

Person- tage	13	2,08	02.0	. 2.83		4.80	77.77	4.46	20.02		11.00	5.08		2.94	5,93	4.89	100
Total	13	33	.32	47	17	8	137	73.	434	14.1	198	83	***	78	26		1625
con- tage	11	1,08	4.41	1,33	1.00	5.57	9.56	4.34		17.31	13,37	5,15	1	2,41	3,57	5,15	100
45 % above	10	13	58	16	12	67	115	51.	388	136	156	62	1	63	13	. 62	12,03
Por- cen- tage	6	2.84	3,32	3.32	0,95	6.16	4.27	69.63	18,48	3,79	6.64	8.53	1	4.74	24,17	6.16	100
15-44 years	00	9	2	7	63	13	0	14	33	00	14	18	1	10	51	13	211
Por- con- tago	7	15.90	4.55	9.09	6.82	1	4.55	11.36	60.6	t	25.00	4.55	1	2.27	4.55	2,27	100
1-14 yoars	9	7	. 2	1 4	3	1	C)	5	4	1.	. 11	03	-1	Н	03	1	4
Per- cen- tage	5	ه م5	: 1	11.30	1	•	0.57	1.69	.1.69	1	8.47	0.57	34,41	4.52	7.57	2.38	100
Below 1 Year	4	-	1	03 20	- 1	1	. H	. E 30	. 00	- 50	15 8	10	114	fined 8		ı 4	177
Cruse of death	3.	Intestinal infactious	ul scascs	Athon bootoming disease		. Wcoplasms.	Nutritional & Mctaboli discass & immunity disorders	Diseases of the nervous system 7 sense organise	Leart discashs	Serobroveseular discases	Responsibly system	Desenses of the digestive system	13, XV (760-779) Conditions originating	Signs Symptons . III defined condition	Accidents, Injuriaes &		o thers To tal
S1. Code No.	1 2	1. I(001-009)	(010 010)1		3. 1(020-041)	5.11(140-239)	6,111(340-279)	7. VI(320-389),	8. 711(390-429)	9. TII(430-438)	10.7111(460-519) Discasos or the Aesperatory sys	11. 17 (520-579)	13. KV (760-779)	13. [VI(160-799)	44. (7II(800-999) Accidents,		10年の日本の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の

APPENDIX VIII

Statement showing the leading causes of death in Alappuzha Municipality in 1992 according to age ground

		1,3.XVI(780_799) Signs, symp	12. XVI (780_799)	11.13(520.579)	10.VIII (460-519)	9.VIII(430,-438)	8. VII(390_429)	7. VI(320_389)	6. III(240.279)	·	4. I (045_079)	3. I (020_041)	2. I (010_018)	н	SI. Code No.	
Others Total .	'Accidents, Injuries and poisoning	Signs, symptoms ill defined condition.	Conditions originating the period.	Diseases of the Digestic5 system.	Diseases of the despi- ratory system.	Cerebro Vascular dis- eases.	eart diseases	Diseases of the nervious system & sense organs.	Nutritional & Motabolic Diseases & Immunity disorders.	Neoplasm '	Viral diseases.	Other bacterial diseases.	Tuberculosis	Intestinal Injectious diseases.	Cause of Death B	
28 147	H.	-	60	1.05	18	H	6	681	۲	-	1	15 1	•	-	Below	
19.05	0.68	0.68	40.82	3.40	12.25	C.68	4.08	6.12	0.68	0.68	1	10.20	ı	0.68	%	
50	ω	١	,	N	6	· N	9	6	Д	ω	2	ω	•	۲	1-14 year	-
12.00	16.00	2.00	1	4.00	12.00	4.00	18,00	12.00	2.00	6.00	4.00	.0.8	1	2.00	88	
206	66	ω	1	18	14	13	. 39	13	ω	7	N	Cī	œ	6	15-4	
100.00	32.03	1.46	1	8.74	6,80	6.31	18.93	6.31	1.46	3.40	0.97	2.43	3.88	2.91	15_44 %	
28 782		18	N	66	8	107	277	\$	27	3	8	34	23	23	45 & above	
3.58	3.33	2.30	0.26	7.67	7.93	13.68	35.42	5.37	3.45	5.76	1.02	4.35	2.94	2.94	%	
71	101	23	20	85	001,	123	. 331	70	. 32	56	12	57	31	31	Total	
100.00	8.52	1.94	6.23	7.17	8.44	10.38	27.93	5.91	2.70	4.73	1.01	4.81	.2.62	2.62	\$2	

