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Publication No. 6

CHARACTERISTICS OF PATIENTS

DYING FROM

DISEASES

of

DIGESTIVE SYSTEM

PUNJAB

1968

DIRECTOR, HEALTH AND FAMILY PLANNING, PUNJAB. CHANDIGARH

CHARACTERISTICS OF PATIENTS

Dying from

Diseases

of

Digestive System

Punjab

1968

BY

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BACKGROUND

As a part of the overall project of disseminating Vital and Health Statisitics information, the State Bareau of Health Intelligence, Directorate of Health Services, Punjab, has undertaken a series to publish a data on causes of mortality in the State. The information is based upon the deaths occurring amongst inpatients in hospitals in Punjab State. These deaths were certified in the International form of Medical Certificates of Cause of death (Anuexure 'A') prescribed by the World Health Organisation and processed in accordance with the rules laid down in the International Classification of Diseases 1955 Revision. Details of the previous studies in Punjab on the subject may be found in document Nos. 1,4 and 5 of Series No. 2.

OBJECTIVES

The primary objectives of the present paper are to highlight the propertion of patients dying from the diseases of the Digestive system, to study the age and sex distribution and to pie-point the leading individual causes in this broad cause group of diseases.

SCOPE

The information is based upon the deaths amongst inpatients occurring in 96 hoppitals in the State of Punjab. References, in order to study the trend, have also been given for the data on the subject from the years 1964 to 1967. A note on the background, coverage, processing and system of referrals is attached as Appendix I to this paper.

MAIN FINDINGS

Morbidity in relation to Mortality

The number of inpatients suffering from diseases in general, diseases of the Digestive System in particular and the corresponding number of deaths from the two categories are shown in the following table from the year 1964 to 1967. The information in respect of patients admitted in the hospital as a result of accidents/external causes has been excluded from the total treated in the inpatient departments of the participating hospitals:---

Year		In-pa	In-patients		Deaths amonist inpatients from	
		All Diseases	Diseases of Digestive system	Diseases	Diseases of Digestive system alone	
1		2	3	4	5	
1964		2,57,918	25,061	7,715	931	
1965		2,74,389	24,200	7,815	1,062	
1966	-	1,66,627	13,700	5,278	547	
1967		1,77,758	18,340	5,786	735	

Patients suffering from the diseases of the Digestive System formed 9.72 per cent in 1964, 8.82 per cent in 1965, 8.22 percent in 1966 and 10.32 per cent in 1967 of the total suffering from all categories of diseases. The mortality amongst patients of the Digestive system was higher in relation to the patients suffering from the same disease group in comparison with the deaths amongst patients for all diseases. For the year 1967 alone the percentage of patients dying and suffering from the Digestive system disease was 4.01 per cent as compared to an over all mortality from all diseases to the extent of 3.25 per cent.

Hospitals deaths certified in the International form of Medical Certificate of cause of death.

The number of deaths occurring in the participating hospitals amongst inpatients and certified in the International form of Medical Certificates of cause of death, as prescribed by World Health Organization for the year 1964 to 1968 and classified as those due to external causes, diseases and morbid conditions and diseases of the Digestive system alone are shown in the following table :--

Year		Total Certificates	External causes	Diseases of Morbid conditions	Diseases of the Diges- tive system
1		2	3	4	5
1964		3,896	390	3,506	506
1965	e-e	4,473	460	4,013	478
1966	•••	5,221	559	4,662	531
1967		5,763	657	5,106	654
1968	••	6,483	814	5,669	9 ₈ 9

The percentage of deaths from external causes has been gradually increasing from 10 per cent in 1964 to 12.6 per cent in 1968. The percentage of deaths from diseases of the Digestive System to the total deaths from all categories started increasing from 10.2per cent in 1966 through 11.3 per cent in 1967 and attaining the climax as 15.3 per cent during 1968. This high percentage of deaths from diseases of the Digestive system includes diseases of buccal cavity and ocsophagus, diseases of stomach and duodenum, Appendicitis, Diseases of Hernia of abdominal cavity, other diseases of intestines and peritoneum, diseases of liver, gallbladder and pancreas etc.

Classification by sex

The following table embodies the deaths due to all diseases and morbid conditions and diseases of the Digestive system by sex for the years 1964 to 1968 :--

		Diseases and Morbid conditions		Diseases of the Digestive System	
Year		Males	Females	Males	Female
1964		2,483	1,023	383	123
1965	***	2,196	1,817	297	181
1966	***	2,890	1,772	360	171
1967	0.0	3,231	1,875	446	208
1968	••	3,545	2,124	707	282

Te percentage of deaths from diseases of the Digestive system for all the years was higher in respect of males rather than females, when compared to deaths of the respective sex for the over all total of diseases and morbid conditions. There was an increasing trend in case of percentage of deaths from diseases of Digestive system for males—being 12.5 per cent in 1966, 13.8 per cent in 1967 and 19.9 per cent in 1968 There was a declining trend in this percentage for females from the year 1964 to 1966-being 12.0 per cent for the year 1964 and 9.7 per cent in 1966. Thereafter the percentage started increasing to 11.1 per cent in 1967 and 13.3 per cent in 1968.

Broad Categorisation

Cause group		Deaths in respect of		
	International Code No.	Males	Females	
Diseases of buccal cavity and oesophagus	530—539		 	
Diseases of Stomach and doudenum	540—545	12	4	
Appendicitis	SSO — 553	11	4	
Hernia of abdominal cavity	560561	20	2	
Other diseases of intestines and peritoneum	570578	543	221	
Diseases of Liver, gallbladder, and panereas	58058 7	121	51	
All Categories	8-8	707	282	

The deaths from diseases of the Digestive system in various broad cause groups for the year 1968 are shown in the following table for males and females :---

For males other diseases of the intestines and peritoneum claimed 76.8 per cent of the total deaths from this broad category of causes. This was followed by diseases of Liver, gallbladder and parcreas contributing 17.1 per cent of the total deaths and diseases of Hernia of abdominal cavity, etc. with 2.8 per cent contribution to the total. For females diseases of intestines and peritoneum contributed 78.4 per cent of the total deaths from this broad category followed by diseases of Liver, gallbladder and pancreas with 18.1 per cent.

First ten leading causes of deaths for diseases of Digestive system

To pin-point the individual leading causes signing the death warrants of people and belonging to the category of diseases of the Digestive system, separate account has been sketched for males and females.

Males

Out of 707 male deaths from the category of diseases of the Digestive system 685 were exclusively due to the first ten causes. These are tabulated below:----

Disease	Internationa Code No.	International Code No.		
Gastro-enteritis and Collitis, except ulcerative, age 4 weeks and over	571		319	
Intestinal obstruction without mention of hernia	570		198	
Cirrhosis of liver	581	-	98	
Peritonitis	576	***	17	
Hernia of abdominal cavity without mention of obstruction	560		11	
Acute appendicitis	550		11	
Ulcer of stomach	540	***	9	
Hernia of abdominal cavity with obstruction	561	-	9	
Other diseases of liver	583	~	7	
Suppurative hepatitis and liver abscess	582		6	

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These ten leading causes of deaths contributed 19% of the total of 19.9% of the deaths from Digestive system in relation to the deaths from all categories of diseases. Gastre-enteritis and collitis except ulcerative age four weeks and over gave rise to 8.9% of the deaths from all diseases. Intestinal obstruction without mention of Hernia added another 5.5% and Cirrhosis of liver 2.7% to the total of 19.9%of deaths from diseases of the Digestive system. These three causes alone contributed 17.1% of the total males death from all disease.

Females

Out of 282 deaths for females from the diseases of the Digestive system group, 274 occurred due to ten causes alone during 1968 and as tabulated below:---

Disease	International Code No.	Number of deaths
Gastro-enteritis and Collitis except ulcerative, age 4 weeks and over	571	145
intestinal obstruction without mention of heraia	570	61
Cirrhosis of liver	581	. 40 ·
Peritonitis	576	13
Acute appendicitis	550	4
Other diseases of galibladder and biliary ducts	586	3
Suppurative hepatitis and liver abscess	582	2
Diseases of pancreas	587	2
Other diseases of intestines and peritoneum	578	2
Other diseases of stomach and duodenum	545	2

The ten causes claim a share of 12.9% of the deaths amongst females out of a total of 13.3% for the same sex and for diseases of the Digestive system. Like males the first three leading causes of deaths were Gastro-enteritis and Collitis except ulcerative, age 4 weeks and over, Intestinal Obstruction without mention of Hernia and Cirrhosis of liver. All the three causes contibuted 11.6% of the deaths out of a total of 13.3%.

Age and sex distribution of first three leading causes

The following table helps in a study of the age and sex distribution for the first three leading causes of deaths and the Digestive system both for males and females:—

Serial No.	Age Group					l obstruction mention of nia		losis of Aver
			Males	Females	Males	Females	Males	Females
1	All Age Groups	 61.9	319	145	198	61	98	40
2	Under one Year		155	53	36	6	. 9	5
3	1-4 years		73	38	14	2	13	2
4	5—14 years		27	11	18	1	6	2
5	15—24 years		11	10	18	3	6	4
6	25—54 years		26	23	54	31	43	19
7	55 years and above	•••	24	7	54	13	14	5
8	Age not Specified		3	3	4	5	7	3

Gastro-enteritis and collitis.—So far as Gastro Enteritis is concerned the problem both for males and females was acute in the age groups under 1 years and 1 to 4 years. The percentage of deaths for males under one year was 48.6% of the total deaths from the diseases in all age groups. The percentage of deaths was less in respect of females in the age group under one year—being 36.6% of the total deaths of all age groups from the disease amongst females.

Intestinal obstruction.—Intestinal Obstruction without mention of Hernia was concentrated in the age group 25—54 years (27.3%) and 55 years and above (27.3%) amongst males. For females the mortality was maximum in the age group 25—54 years being 51%.

Cirrhosis of liver.—For males the mortality from the discase increased from 9.2% under one year. 13.3/in the age group 1—4 years and fell to 6.1% in the age group 5—14 years and maintaining the same percentage even in the age group 15—24 years. 43.9% of the total deaths from Cirrhosis of liver was in the age group of 25—54 years. For femiles the incidence was higher under one year of age followed by a reduction in the subsequent age groups up to 14 years of age and rising again in the age groups 15—24 (10%) and 25—54 years (47.5%) of the total deaths amongst females from this disease.

Seasonal Variation

The deaths occurring in the participating hospitals amongst inpatients in various months of the year 1968 are shown in the following table:—

Month	· ·		Accidents	Discases of Digostive System	Diseases of Non-Digos- tive System
January			63	58	344
February			55	30	313
March		-	70	60	353
April			75	78	370
May		~~	75	141	376
June	•	· ••	90	121	450
July		· · · · · ·	79	100	481
August			59	115	457
September		-	62	91	434
October		-	69	57	335
November		••	52	67	361
December			65	71	406
	Total		814	939	4,680

For the diseases as a whole there was a rising trend in the percentage of deaths starting from February (6.1%) through March (7.3%), April (7.9%), May (9.1%) June (10.1%) and July (10.2%). This very trend was reflected in mortality from diseases of the Digestive System starting from the month of February (3.0%) through March (6.1%), April (7.9%) and May (14.2%). For diseases as a whole mortality started decreasing from the months of July to October; whereas for diseases of the Digestive system the trend which started from the month of May continued upto the month of November. Diseases other then those of the Digestive system reflected a different pattern because the increase in mortality was there in respect of such diseases from the months of May to July as against diseases of digestive system during this very period.

Looked from the angle of various cause groups within the system of Digestive deseases it was noticed that other diseases of intestines and Peritoneum had an icreasing mortality trend from the month of February to the month of May. It had a decreasing trend from the month of August to the month of November. Diseases of the Liver Gallbladder etc. had inclining trend upwards from the month of April to the month of June.

SUMMARY AND CONCLUSIONS

An analysis of 6483 deaths amongst inpatients in 96 participating hospitals in Punjab State for the year 1968 led to the following main conclusions:---

1. About 15.2% of the deaths were from diseases of the Digestive system alone.

2. The mortality from diseases of Digestive system was higher amongst males (19.9%) in relation to females (13.3%) of the total deaths from diseases for the respective sex.

3. Other diseases of the Intestines and peritoneum (International Code No. 570-578) topped the sub-categories under the head diseases of the Digestive system both for males and females – contributing 76.8 and 78.4% of deaths from Digestive system diseases.

4. The first three individual leading causes of deaths both for males and females were Gastro-Enteritis and Collitis except ulcerative, age 4 weeks and above, Intestinal Obstruction without mention of Hernia and Cirrhosis of liver. Out of 19.9% of deaths from Digestive diseases for males three causes contributed 17.1%. Out of 13.3% of deaths from diseases of Digestive system for females, these three individual causes formed 11.6% of the total.

5. Gastro-enteritis and Collitis except Ulcerative age 4 weeks and over was a problem diseases under one year of age in particular and age group 1-4 years in general both for males and females.

6. Intestinal obstruction without mention of Hernia was most common amongst females in the age group 25—54 years. The problem was equally acute for males in the age group 25—54 years and ages 55 years and above-each age group contribute 27.3% of the deaths from the diseases of the total in all age groups.

7. Cirrhosis of liver was concentrated in the age group 25-54 years both amongst males and females.

IMPLICATIONS

The above analysis is based on hospitals deaths and by nature the data is selective in character. As such generalization of the results need be made with caution. However, this provides ample scope to initiate actions by the Health Department and also mobilise public opinion to minimise morbidity and mortality from such diseases as Gastro-enteritis and Collitis etc. which can easily be prevented through Hygienic conditions and cleanliness.

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4. Causes of deaths Medically certified (Major Hospitals) in Punjab State 1966, Series No. 2, Publication No. 1.

APPENDIX I

BACKGROUND, COVERAGE AND PROCESSING

Punjab is one of the Northern States of India. It occupies an area to the extent of 47,000 square miles inhabiting a population of 11.14 million in 109 towns and 12,883 villages according to 1961 Census. The mid-year estimated population for 1968 is 12.6 million. According to registration data the population has been growing at a rate ranging from 1.9 per cent to 2.2 per cent after 1961 Census. The density of population per square kilometer is 246. The literacy rate according to 1961 Census was 26.7 per cent. 76.9 per cent of the 1961 Census population and 76.4 per cent of the 1968 estimates lives in rural areas.

The number of registered Medical Practitioners in the State is approximately 4,400. This gives a Medical Practitioner and population ratio as 3,027 persons per one registered Medical Practitioner. It is common that as in other areas of the Country there is concentration of these registered Medical Practitioners in the urban rather than the rural areas. The gap is being covered through establishment of Primary Health Centres in the rural areas and dispensaries where both the preventive and the curative aspects can be made available to the public served by these institutions. It is not feasible to ensure attendance to every sick person and also precisely pin-point the causes of deaths due to shortage of medical personnel on one hand, and patchy distribution of this scarce commodity in the rural areas in particular on the other.

INTRODUCTION OF MEDICAL CERTIFICATION OF CAUSE OF DEATH

Realising that a stage of saturation is hardly within the sight, when every death would be certified by a medical attendant, a beginning to lay the hands, on as precise a cause of death as possible, was made through the introduction of medical certification of cause of death in the International form (as prescribed by the World Health Organization), during the year 1963 in Punjab State. During that year the number of hospitals covered was only 39. The number of hospitals covered during different years are as under :--

Year	No. of Hospitals covered
1963	39
1964	39
1965	63
1966	71
196 7	71
1968	96

All hospitals with bed strength 10 and above have been covered and stand incorporated in this report The number of medical certificates of cause of death in the International form collected during various years from these hospitals are as under :--

\ • • •			No. of Medica	l Certificates in	respect of
5.No.	Year	I	Both Sexes	Males	Females
1	2		3	4	5
1	1964	••	3,896	2,800	1,096
2	1965	••	4,473	2,513	1,960
3	1966	••	5,221	3,330	1,891
4	1967	••	5,763	3,748	2,015
5	1968	••	6,483	4,169	2,314

PROCESSING OF THE INFORMATION

The 96 hospitals participating in the supply of medical certificates of caute of death in the International form as prescribed by World Heal h Organization, maintain a direct contact with the State Bureau of Health Intelligence of the Department. Certificates in respect of deaths occurring in the inpatient departments of a hospital during a particular month were due by the 7th of the succeeding month. It was possible to ensure a response rate to the extent of 75 per cent of the institutions in the first lot. The remaining 25 per cent were followed through reminders and telegrams. The chronic defaulters were the hospitals attached to the teaching Colleges, who could hardly send the information in time.

CHECKING AND COMPILATION

The Medical Certificates of cause of death received were checked for incompletion and inconsistencies with regard to various items such as the personal information like sex, age, residence or incomplete diagnosis. Such certificates wanting information on one score or the other were referred back to the hospital and the certifying physician for rectification. Others were coded according to the rules as prescribed in the International Classification of Diseases, Seventh Revision.

Punch card system with the help of the sorter and tabulator enabled to tabulate the information. along various axes presented in the report. About 12.4 per cent of the certificates were referred back during 1968 in relation to 16.7 per cent during the year 1967.

ANNEXURE "A"

INTERNATIONAL FORM -

MEDICAL CERTIFICATE OF CAUSE OF DEATH

Name of I	nstitution					_	ļ	Admissi	on No.	Fo S B			-
				l <mark>ospital i</mark> o be used	-		hs)	<u></u>		(1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	(3)	(4) (4)	
Name of dece	ased	Sex Marital status			s Dat	e of t	oirth	Date of	death	(5)	(6)	(7)	(8)
همداننده اسی نیبی بی		M/F	S/N	/W/D						 			
Resident	of—		[.	A		G	E	incomp	leted	(9)	(10)	(11)	(12)
Rural ——Area	District	St	ate:	Years	If unde	er one	year	If under	24 hours			1	
Urban					Months		ays	Hours	Minutes			(7) (11) (15) (19) (22)	
(Disease of	I liate Cau condition to deat	ı direc		CAUSE	OF DI	EATH	 [.	1	Approxi- mate inter val bet- ween onset and death		(14)	(15)	(16)
State the d complication death (not t such as hear	which he mode	of d	used • ying		ie to (or	as a (conse	quence of)		(17)	(18)	(19)	
Morbid con giving rise t stating the u	o the abc	if a ve ca	use,	$\begin{cases} (b) & - \\ d \\ d \\ (c) & - \end{cases}$	ie to (or	as a (conse	quence of)		(20)	(21)	(22)	(23)
last				((0)						(24)	(25)	(26)	(27)
Other Sign Contributing not related condition ca	g to the o to the d	icath,	but							-			
Alleged AC Alleged SU Alleged HC (Tick releva	ICIDE)M1CIDE ant cell)						H	ow did inj	ury occur				
IF DECEA Was the dea	sed was th associa	ited w	EMA vith pi ves or	regnancy	?	If yes	, was	there a de (Yes of	livery	•			.
Signature. of	Medical	Atten	dant :		Date of	Şign	ature		. ·				
		SÉI	E RE	VERSE	FOR	NSTR	UCI	IONS -			· · · · · ·		

MEDICAL CERTIFICATE OF CAUSE OF DEATH

Directions for completing the form

Nome of deceased.—To be given in full. Do not use initials. If deceased is an infant, not yet named at the time of death write "Son of" (S/o) or "Daughter of" (D/o) followed by names of mother or father.

Sex. Strike off which is not applicable.

Marita' Status.—Indicate whether single (S), married (M) widowed (W) or divorced (D). Tick mark $(\sqrt{)}$ which is applicable.

Date of birth.—Please try to ascertain this in the largest possible number of deaths. It is of great importance from both the legal and statistical point of view.

Rural/Urban.—Strike off which is not applicable.

Age.—This should be stated whether or not the date of birth has been given. If deceased is more than one year old : give age in years up to last birthday (completed number of years). If under 1 year : give age in months and days. If under 24 hours : give age in hours and minutes.

Cause of death.—This part of the form should always be completed by the attending physician personally.

The certificate of cause of death is divided into two parts, I and II. Part I is again divided into three parts—lines (a) (b) (c). If a single morbid condition completely explains the death, then this will be written on line (a) of Part I, and nothing more need be written in the rest of Part I or in Part II. For example, smallpox, lobar pneumonia, cardiac beriberi, are sufficient causes of death and usually nothing more is needed.

Often, however, a number of morbid conditions will have been present at death, and the doctor must then complete the certificate in the proper manner so that the correct underlying cause will be tabulated. First, enter in Part I (a) the immediate cause of death. This does not mean the mode of dying e.g., heart failure, respiratory failure, etc. These terms should not appear on the certificate at all, since they are modes of dying and not causes of death. Next consider whether the immediate cause is a complication or delayed result of some other cause. If so, enter the antecedent cause in Part I line (b). Sometimes there will be three stages in the course of events leading to death. If so, line (c) will be completed. The underlying cause to be tabulated always written last in Part I.

Morbid conditions or injuries may be present which were not directly related to the train of events causing death but which contributed in some way to the fatal outcome. Sometimes the doctor finds it difficult to decide, especially for infant deaths, which of several independent conditions was the primary cause of death, but only one cause can be tabulated, so the doctor must decide. If the other diseases are not effects of the underlying cause they are entered in Part II.

Do not write two or more conditions on a single line.—Please write the names of the diseases in full) in the certificate as legibly as possible to avoid the risk of their being misread.

Onset.—Complete the column for interval between onset and death whenever possible, even very approximately e.g., "from birth" "several years". Accident or violent deaths.—Both the external cause and the nature of the injury are needed and

Accident or violent deaths.—Both the external cause and the nature of the injury are needed and should be stated. The doctor or hospital should always be able to describe the injury stating the part of the body injured, and should give the external cause in full when this is known. Example : 1 (a) Hypostatic Pneumonia ; (b) Fracture of neck of femur, ; (c) Fall from ladder at home.

Maternal Deaths. Be sure to answer the questions—on pregnancy and delivery. This information is needed for all women of child bearing age, even though the pregnancy may have had nothing to do with the death.

Old age or senility.—Old age (or senility) should not be given as a cause of death if a more specific cause is known. If old age was contributory factor, it should be entered in Part II. Example : I(a) Chronic bronchitis II-Old age.

Completeness of information.—A complete case history is not wanted, but, if the information is available, enough details should be given to enable the underlying cause to be properly classified.

Examples—Anaemia.—Give type of anaemia, if known. Neoplasms.—Indicate whether benign or malignant, and site, with the site of primary neoplasm, whenever possible, Heart disease.— Describe the condition specifically if congestive heart failure, chronic corpulmonale, etc., are mentioned; give the antecedent condition. Tetanus.—Describe the antecedent injury if known Operation.— State the condition for which the operation was performed. Dysentery.—Specify whether bacillary amoebic etc., if known. Complications of pregnancy or delivery.—Describe the complication specifically. Tuberculosis.—Give Organs affected.

Symptomatic statements.—Convulsions, diarrohoea, fever, ascites, jaundice, debility, etc., are symptoms which may be due to any one of a number of different conditions. Some times nothing more is known, but whenever possible, give the disease which caused the symptom.

DETAILED TABULATION

of

DEATHS FROM DISEASES OF THE DIGESTIVE SYSTEM

Medically Certified

in

INTERNATIONAL FORM

from

96 Hospitals

in

Punjab State

1968.

lfica- Code		Sex	All	Age Grou										
International classifica- tion of disease Code Number	Cause of Death		Ages	-1	1	2	3	4	5→	10	15—	20		
1	2	3	4	5	6	7	8	9	10	11	12	13		
539— 587	All causes (Diseases of the Digestive system)	Both Sexes M	989 707	274 207	80 57	26 20	23 17	17 9	42 32	27 21	39 28	37 24		
540	Ulcor of stomach	F M	282 9	67 	23 ••	6 	6 	8	10 	6 	11 	13 		
541	Ulcer of duodenum	F M F	1 3 	•••	••• •••	*. * ***	• • •••	• • • •	•••	•••	 1 	•••		
544	Disorders of function of stomach	M F	 1	•••	••	•-•	••	••	••	••	₽ ₽ ₽ ₽	* = *-*		
545	Other diseases of stomach and duodenum	M F	 2	•••	••	• • •.u	••	••	••	•••	*·*			
550	Acute appendicitis	M F	11 4	• •	••	•••	••	•••	••	1 1	3	 • •		
560	Hemia of abdominal cavity with mention of obstruction	out M F	11 1	3 1	••	••	1	* • •+•	••	• • ••	••	4000 1.45		
561	Hernia of ablominal cavity wi obstruction	th M F	9 1	1 1	4 a 8-8	••	••	•••	•••	••	••	•••		
570	Intestinal obstruction without mention of hernia	M F	198 61	36 6	6 1	4	2 	2 1	11 1	7	6 1	12 2		
571	Gastro-enteritis and colitis, except ulcerative, age 4 weeks and ove	MI or F	319 145	155 5 3	43 21	14 4	10 6	6 7	16 9	11 2	6 4	5 6		
572	Chronic enteritis and ulcerative colitis	M F	4	1	••	••	••	••	•.• • •	••	1			
576	Peritonitis	M F	17 13	1 1	1	'i	1 	••	•••	•-• • •	5 3	1		
578	Other diseases of intestines and peritoneum	M F	5 2		••	••	•••	••	1	••	••	1		

NO. 1

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			(in yea	rs)									
25	30—	35—	40—	45	50—	55	60	65	70	75—	8()	85 and above	Unknowi
14	15	16	17		19	20	21	22	23	24			27
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580	Acute and subacute yellow atrophy of liver	M F	3 1	 	···	· · ·	•••	••	•••	•••	i	1
581 1	Cirrhosis of liver	M F	98 40	9 5	7 1	2 1	3	1 	4 	2 2	5 1	. 1 3
582	Suppurative hepatitis and liver abscess	M F	6 2	•••	•••	••	••	 	••	••	1 1	••
583	Other diseases of liver	M F	7 1	1	••	••	••	•••		••	••	2
584	Cholelithiasis	M F	1	••	• -	••	 	•••	••	••	••	••
585	Chotecystitis and cholangitis, with- out mention of calculi	M F	 2	••	•••	•••	••	••	 	 1	••	••
586	Other diseases of Gallbladder and biliary ducts	M F	2 3	•••	•••	••	•••	•••	•••	••	•••	
587	Diseases of pancreas	M F	4 2		••		•••	••	••	••		1

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Publications

State Bureau of Health Intelligence (SBHI)

- Series No. 1— Population and Demographic Data.
- Series No. 2- Mortality Statistics.
- Series No. 3— Health Statistics.
- Series No. 4— Reports and Recommendations of Advisory Committee on Health Statistics.
- Series No. 5— Reports and Recommendations of Expert Committee on the improvement of Birth and Death Registration and allied publications.
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Please write

to

Assistant Director, Health Statistics,

DIRECTORATE OF HEALTH AND FAMILY PLANNING, PUNJAB, CHANDIGARH.