

POPULATION BASED CANCER REGISTRY, CHENNAI

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The population based cancer registry, Chennai (formerly Madras), dates back to 1981 and is one of the oldest in the network of National Cancer Registry Programme (NCRP), Indian Council of Medical Research (ICMR). It is based at the Cancer Institute (WIA), Chennai, a Regional Cancer Centre of the Government of India in the Ministry of Health and Family Welfare with the state of art facilities for cancer diagnosis, treatment and research. The registry caters to an area of 170 km² and a population (entirely urban) of 4.2 millions (951 females to 1000 males) as on 1 March 2001 constituting 0.4% and 6.8% of the total population of India and the state of Tamilnadu respectively. The population growth rate during 1991-2001 is 9.76% and the population density is 24,231 persons per km² in 2001 [Census of India, 2001]. Chennai (Madras), the capital of the state of Tamil Nadu, is situated at sea level on the eastern coast of peninsular India at latitude 13.04°N and longitude 80.17°E. Literacy rate is 80% (M: 85%; F: 75%) [Census of India, 2001]. Tamil is the predominantly spoken language. The majority are Hindus (84%) followed by Muslims (9%), Christians (6%) and other religious groups (1%) [Census of India, 1991]. General health care, including cancer diagnostic and treatment facilities, are provided by the government health services, one regional cancer centre (the Cancer Institute (WIA), Adyar) and supplemented by private practitioners and hospitals. The radiation oncology division at the Cancer Institute (WIA), a regional cancer centre in the Ministry of Health, Government of India is one of the best equipped centre in the country. Radiation therapy is also available in 4 government and 2 private hospitals. Surgical and chemotherapeutic services are offered in government and private hospitals and nursing homes.

Cancer is yet to be legislated as a notifiable disease in India. Cancer registration is therefore voluntary and is continued to be done by active method. The registry continues to enjoy good cooperation from all health care facilities in and around Chennai with 215 sources of registration till now: government and private hospitals, nursing homes, clinics, consultants, radiotherapy centres, pathology laboratories, imaging centres and hospices. The registry social scientists visit these sources regularly and collect morbidity data by interviewing the case wherever possible and/or from medical records. Mortality information on all deaths occurring in the city, irrespective of the stated cause of death in the death certificate, is collected from the

Vital Statistics Division (VSD) of the Corporation of Chennai. The criterion for inclusion of cases in the registry is that the cases should have been residing in Chennai for at least a year at the time of first diagnosis of cancer. Registry operations are constantly monitored with emphasis on the quality of data collected which includes re-screening of cases at government hospitals, exercises on re-abstraction and coding on a random sample of cases and validity checks for unlikely combinations of age, sex, site and morphology. Data-processing has been progressively computerized to minimize the manual work and improve the quality and efficiency.

The PBCR, Chennai, has been the first among registries in the network of NCRP in carrying out many new registry activities: in undertaking systematic trace-back of cancer cases first identified through a death certificate, in the form of visits to houses and relevant hospitals, since 1983; in collecting information on the vital status (alive/dead) of the cases for selected cancer sites by active follow up since 1985; in collecting information on all deaths (cancer or not as the cause of death) from VSD since 1992. The accomplishments based on such activities are plenty. Data quality was enhanced, the under registration of morbidity and mortality data was diminished and a simple estimate of completeness of registration was possible. Survival analysis of the top ten cancers were first available from Chennai PBCR among all other registries in NCRP. The availability of mortality information of incident cancer cases were doubled leading to an enhancement in the mortality to incidence ratio making it comparable with other registries in the world.

The dissemination of cancer information collected by the registry for the benefit of the community as well as the research fraternity is done by publishing annual and periodic reports on cancer incidence and mortality highlighting the trends and changes. A descriptive study of the pattern of common cancers among both sexes in Chennai giving the risk estimates with respect to age, literacy and religion besides special studies giving the salient features of survival and mortality data have been published in international scientific journals.

Figure: CHN-1:
Population Pyramid showing Age Distribution: 1990-1996
Chennai

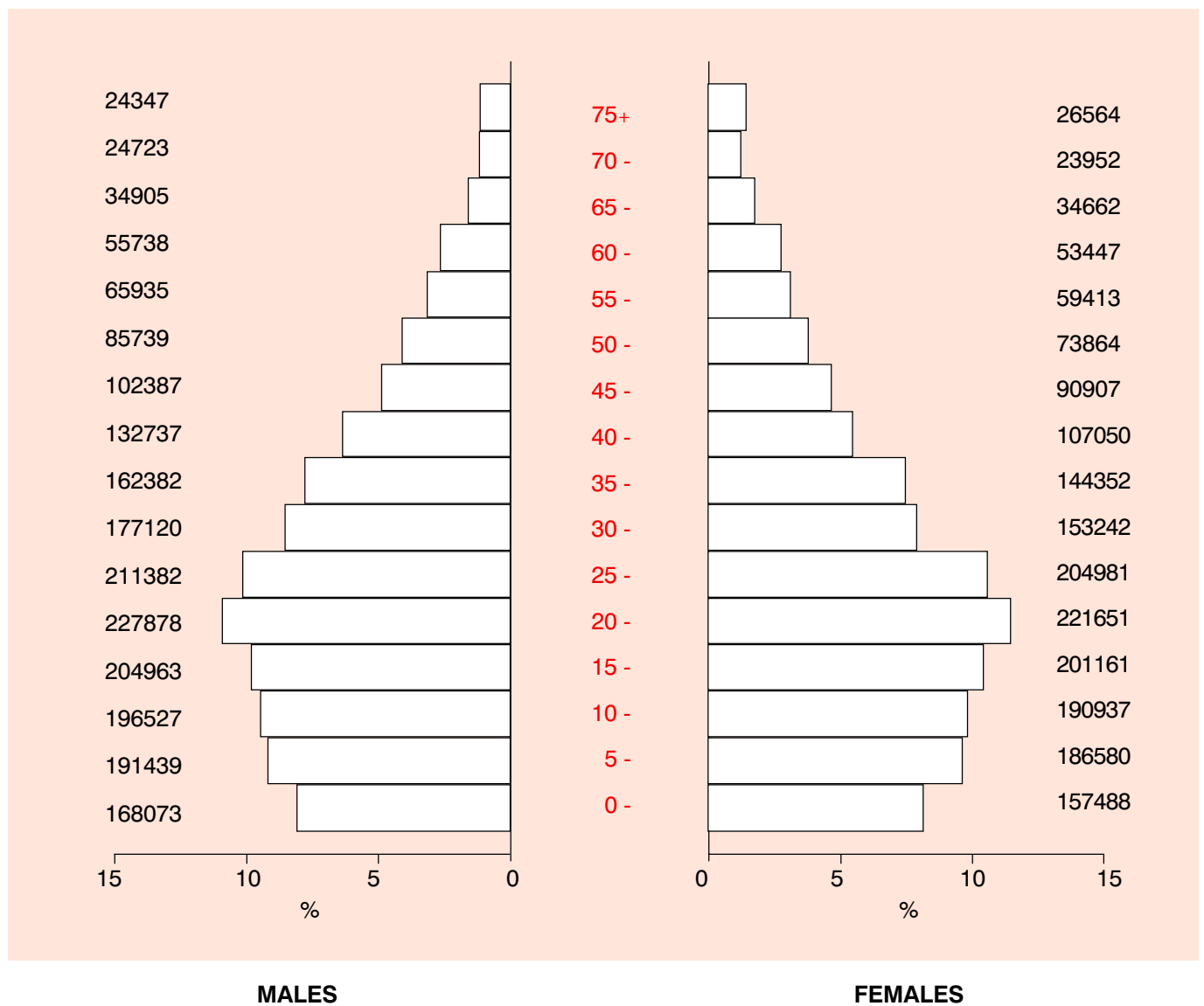


TABLE: CHN-1

Population by Five Year Age Group and Gender : 1990-1996
Number and Relative Proportion (%)

Chennai

Age Group	MALES		FEMALES		TOTAL	
	Number	%	Number	%	Number	%
0-4	168073	8.13	157488	8.16	325561	8.15
5-9	191439	9.26	186580	9.67	378019	9.46
10-14	196527	9.51	190937	9.89	387464	9.70
15-19	204963	9.92	201161	10.42	406124	10.16
20-24	227878	11.03	221651	11.48	449529	11.25
25-29	211382	10.23	204981	10.62	416363	10.42
30-34	177120	8.57	153242	7.94	330362	8.27
35-39	162382	7.86	144352	7.48	306734	7.68
40-44	132737	6.42	107050	5.55	239787	6.00
45-49	102387	4.96	90907	4.71	193294	4.84
50-54	85739	4.15	73864	3.83	159603	3.99
55-59	65935	3.19	59413	3.08	125348	3.14
60-64	55738	2.70	53447	2.77	109185	2.73
65-69	34905	1.69	34662	1.80	69567	1.74
70-74	24723	1.20	23952	1.24	48675	1.22
75+	24347	1.18	26564	1.38	50911	1.27
Total	2066275	100.0	1930251	100.0	3996526	100.0

TABLE: CHN-2**Main Sources* of Registration of Incident Cancers: 1990-1996****Chennai**

Name of Institution	Year of Diagnosis and Relative Proportion (%)							1990-96	
	1990	1991	1992	1993	1994	1995	1996	Number	%
Govt. General Hospital	23.1	22.6	20.7	17.4	19.8	18.6	17.6	4723	19.9
Cancer Institute (WIA)	17.5	16.7	18.5	18.3	16.5	17.5	15.7	4083	17.2
Govt. Stanley Hospital	9.7	9.9	9.5	12.0	9.4	8.1	7.8	2245	9.5
Govt. Royapetaah Hospital	6.7	8.3	5.2	7.4	5.4	5.0	6.0	1484	6.3
Govt. Women & Child Hos.	5.9	5.4	6.0	6.2	4.4	3.7	5.1	1239	5.2
Apollo Hospital	2.6	2.8	2.8	3.1	4.4	5.9	7.5	997	4.2
Corporation of Chennai	4.4	4.3	4.4	4.3	3.5	3.3	3.1	925	3.9
Govt. Kilpauk Medical Coll.	2.5	2.8	2.6	2.3	2.5	1.7	2.1	555	2.3
S.Rly Hospital	1.9	1.7	2.3	2.7	1.9	2.0	2.2	503	2.1
St. Isabel's Hospital	1.8	1.5	1.2	2.0	2.9	3.1	1.4	469	2.0
Peripheral Hospital	1.1	1.6	2.4	1.9	1.6	1.3	2.0	406	1.7
Dr. Rai's	0.0	0.3	0.5	2.5	1.8	3.5	2.9	400	1.7
VHS	1.2	1.6	1.7	1.2	1.7	1.9	1.9	380	1.6
Govt. R.S.R.M. Hospital	1.9	2.3	1.9	1.2	1.4	1.2	1.2	378	1.6
Govt. Kasturba Hospital	2.0	1.8	1.8	1.5	1.4	1.3	1.2	374	1.6
Premier Radiology Institute	1.9	1.3	0.8	1.0	2.3	2.1	1.4	367	1.5
Govt. Inst. of Child Health	1.2	0.9	1.8	1.9	1.9	1.4	0.9	336	1.4
Vijaya Hospital	0.8	1.2	0.9	0.8	1.5	1.4	2.0	299	1.3
CSI Rainy Hospital	1.6	1.6	1.3	1.2	1.3	0.4	0.6	268	1.1
Total of above								20431	86.1
All Others								3290	13.9
Total All Sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	23721	100.0

* 1. Institutions listed have registered at least one percent of all cases in the registry for the combined years 1990-1996.

* 2. The numbers and proportion listed are the minimum number of cases. Institutions could have registered / reported more cases, since duplicate registrations and non-resident/registry cases are not included.

**TABLE: CHN-3(a): Number of Incident Cancers by Five Year Age Group and Site (ICD-9):
1990-1996 – Males**

% = Relative Proportion of Cancers of All Sites.

Chennai

ICD-9	Site	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	>75	Total	%
140	Lip	0	1	0	0	0	0	3	0	4	5	8	2	10	2	2	0	37	0.33
141	Tongue	0	0	0	1	0	2	8	17	29	67	76	90	94	77	41	33	535	4.71
142	Salivary Gland	0	0	0	1	0	3	4	3	9	5	8	4	6	7	2	3	55	0.48
143	Gum	0	0	0	0	1	0	0	3	1	10	11	16	20	12	15	9	98	0.86
144	Floor of Mouth	0	0	0	0	0	0	0	2	7	17	13	16	13	7	3	6	84	0.74
145	Other Mouth	0	0	0	0	7	5	9	15	24	50	67	87	78	65	45	37	489	4.30
146	Oropharynx	0	0	0	0	1	1	2	8	10	24	43	48	42	27	25	19	250	2.20
147	Nasopharynx	0	1	4	6	9	6	2	3	5	6	7	9	13	3	9	4	87	0.77
148	Hypopharynx	0	0	1	4	3	9	12	19	31	60	69	85	107	75	40	35	550	4.84
149	Pharynx Etc.	0	0	0	1	0	0	1	3	5	11	14	11	12	11	8	13	90	0.79
150	Oesophagus	0	0	0	1	2	4	12	25	46	97	137	153	179	116	78	70	920	8.09
151	Stomach	1	0	0	1	6	16	23	64	89	121	198	221	247	188	136	126	1437	12.64
152	Small Intestine	0	0	0	0	1	0	2	1	2	4	1	1	4	0	0	5	21	0.18
153	Colon	0	0	0	1	3	7	5	11	17	24	29	20	28	24	11	14	194	1.71
154	Rectum	0	0	0	0	8	13	15	18	26	26	40	39	44	41	24	35	329	2.89
155	Liver	8	0	0	1	0	5	4	11	17	22	38	31	41	41	19	15	253	2.23
156	Gall Bladder	0	0	0	0	0	0	2	3	6	5	5	10	11	7	4	6	59	0.52
157	Pancreas	0	0	0	0	1	2	5	8	18	25	19	23	29	22	10	13	175	1.54
158	Retroperitoneum	6	0	0	0	0	0	0	2	1	1	5	2	4	0	0	1	22	0.19
159	Other Dig System	0	0	0	0	0	0	0	0	0	1	0	1	4	2	1	1	10	0.09
160	Nasal Cavity	0	1	1	1	2	5	5	7	1	13	9	5	13	7	5	4	79	0.70
161	Larynx	0	0	1	0	1	2	6	10	30	55	62	84	85	66	39	27	468	4.12
162	Lung	0	0	1	3	5	12	21	32	76	130	153	207	229	171	91	59	1190	10.47
163	Pleura	0	0	0	0	1	0	0	1	0	2	0	1	1	0	1	0	7	0.06
164	Thymus	0	0	1	2	4	2	4	0	0	2	5	3	2	0	0	0	25	0.22
165	Other Resp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	Bone	1	5	8	34	15	12	6	6	3	4	5	2	3	1	2	3	110	0.97
171	Conn. Tissue	7	2	6	5	11	9	11	9	9	6	8	8	3	5	9	5	113	0.99
172	Skin Melanoma	0	1	2	0	0	0	1	4	1	3	6	3	6	5	1	7	40	0.35
173	Skin. Other	1	0	0	1	1	2	6	7	13	13	15	18	23	25	20	14	159	1.40
175	Breast Male	0	0	0	0	0	1	0	1	2	2	2	2	6	4	3	4	27	0.24
185	Prostate	1	0	0	0	0	0	1	2	2	7	18	20	48	58	67	123	347	3.05
186	Testis	6	0	0	3	12	11	11	10	7	8	3	6	5	2	3	2	89	0.78
187	Penis Etc.	0	0	0	0	2	6	5	14	18	26	36	47	37	22	23	19	255	2.24
188	Uri. Bladder	0	2	0	1	2	0	3	3	16	18	20	35	37	37	35	37	246	2.16
189	Kidney	15	4	1	0	1	1	4	4	9	11	13	16	17	9	10	4	119	1.05
190	Eye	20	5	1	0	2	1	1	2	0	0	3	0	0	1	2	1	39	0.34
191	Brain	18	23	9	8	7	23	27	35	29	28	29	27	20	19	6	10	318	2.80
192	Nervous System	0	0	0	0	1	0	2	0	1	0	2	2	0	1	0	0	9	0.08
193	Thyroid Gland	0	0	0	1	2	2	5	2	1	8	13	20	13	5	13	6	91	0.80
194	Oth. Endo. Gland	6	3	2	1	1	4	0	0	2	2	0	1	0	0	0	0	22	0.19
195	Ill Def. Sites	1	0	1	0	0	0	1	3	1	1	2	4	3	2	1	2	22	0.19
196	Sec. Lymph. Node	1	0	0	1	0	1	1	7	5	20	17	22	26	19	17	11	148	1.30
197	Sec. Res. Etc	0	0	1	3	3	2	9	16	18	41	32	48	50	35	28	36	322	2.83
198	Sec. Other	0	0	0	1	0	1	4	4	2	11	6	9	15	8	5	7	73	0.64
199	Prim. Unknown	2	0	1	3	4	0	5	10	14	30	34	23	30	16	13	21	206	1.81
200	Lymphosarcoma	4	4	7	5	3	2	3	5	5	2	2	8	4	2	2	2	60	0.53
201	Hodgkins. Disease	8	34	16	10	16	10	13	9	14	13	7	6	4	6	2	4	172	1.51
202	Oth. Lymph. Node	7	19	25	22	17	23	23	12	24	38	27	34	36	22	18	16	363	3.19
203	Mult. Myeloma	0	0	0	0	0	2	2	5	7	10	6	15	14	16	14	7	98	0.86
204	Leuk. Lymphatic	51	65	32	19	10	10	8	6	5	1	2	5	3	1	4	2	224	1.97
205	Leuk. Myelocytic	6	10	5	11	22	14	16	11	16	12	14	6	12	12	9	5	181	1.59
206	Leuk. Monocytic	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0.02
207	Leuk. Misc.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.01
208	Leuk. Unspecified	5	1	7	4	5	4	2	2	1	3	0	1	3	5	0	3	46	0.40
	All Sites	175	183	133	156	193	235	315	455	679	1101	1339	1557	1734	1309	916	886	11366	100.0

**TABLE: CHN-3(b): Number of Incident Cancers by Five Year Age Group and Site (ICD-9):
1990-1996 – Females**

%= Relative Proportion of Cancers of All Sites.

Chennai

ICD-9	Site	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	>75	Total	%
140	Lip	0	0	0	0	0	1	0	0	0	4	6	3	5	4	5	3	31	0.25
141	Tongue	0	0	0	0	0	3	3	10	10	19	27	27	29	24	13	11	176	1.42
142	Salivary Gland	1	0	0	4	1	4	2	0	2	4	4	6	2	1	5	2	38	0.31
143	Gum	0	0	0	0	0	0	0	3	4	12	21	20	24	12	8	6	110	0.89
144	Floor of Mouth	0	0	0	0	0	0	0	0	1	2	1	2	2	2	0	1	11	0.09
145	Other Mouth	0	1	0	0	0	4	13	19	43	44	85	71	94	51	38	26	489	3.96
146	Oropharynx	0	0	1	0	3	0	1	2	2	6	5	5	7	4	6	2	44	0.36
147	Nasopharynx	0	0	2	3	9	4	4	2	6	1	6	1	2	3	0	0	43	0.35
148	Hypopharynx	0	0	1	2	3	4	8	18	26	27	28	30	22	16	12	5	202	1.63
149	Pharynx Etc.	0	0	0	0	1	0	0	1	0	1	1	4	4	4	0	2	18	0.15
150	Oesophagus	0	0	0	1	2	7	10	30	45	62	108	108	85	63	60	32	613	4.96
151	Stomach	0	0	0	2	9	23	20	50	42	80	102	92	97	80	36	44	677	5.48
152	Small Intestine	0	0	0	0	1	0	0	0	2	1	0	1	2	3	1	1	12	0.10
153	Colon	0	0	1	1	2	2	4	7	13	13	22	21	23	18	11	12	150	1.21
154	Rectum	0	1	1	1	6	15	8	12	13	22	35	29	53	22	15	16	249	2.02
155	Liver	7	1	0	1	2	2	2	2	5	7	14	8	7	10	9	3	80	0.65
156	Gall Bladder	0	0	0	0	0	1	1	3	3	15	7	12	13	9	8	9	81	0.66
157	Pancreas	0	0	0	2	0	3	0	5	7	2	7	10	11	11	8	5	71	0.57
158	Retroperitoneum	2	0	1	0	1	1	0	3	2	4	0	1	2	2	1	1	21	0.17
159	Other Dig System	0	0	0	0	1	1	0	1	1	0	0	0	2	0	2	1	9	0.07
160	Nasal Cavity	0	0	0	1	3	1	1	3	3	6	4	5	9	5	3	3	47	0.38
161	Larynx	0	0	0	1	0	2	1	1	5	3	6	9	13	4	5	2	52	0.42
162	Lung	0	0	0	0	1	1	7	13	19	18	40	36	48	35	13	9	240	1.94
163	Pleura	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	4	0.03
164	Thymus	1	0	0	1	0	0	1	0	1	1	0	0	0	2	1	0	8	0.06
165	Other Resp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	Bone	0	2	11	16	7	8	4	4	4	2	1	4	3	0	2	0	68	0.55
171	Conn. Tissue	5	5	4	9	8	5	8	10	8	12	6	9	10	7	5	4	115	0.93
172	Skin Melanoma	0	0	0	0	0	1	0	1	2	3	4	4	5	1	4	2	27	0.22
173	Skin. Other	0	0	1	1	4	3	7	11	7	4	17	11	17	10	7	17	117	0.95
174	Breast	0	0	0	1	18	67	92	246	307	361	299	312	243	199	108	106	2359	19.09
179	Uterus NOS.	0	0	0	0	0	1	1	1	2	8	13	7	6	10	1	4	54	0.44
180	Cervix	0	0	0	0	12	42	146	300	407	540	520	479	424	206	151	93	3320	26.87
181	Placenta	0	0	0	2	11	11	5	0	1	0	0	0	0	0	0	0	30	0.24
182	Body Uterus	0	0	0	0	1	3	3	7	13	21	30	35	26	34	12	15	200	1.62
183	Ovary	2	3	10	17	28	30	25	50	49	72	72	73	90	49	31	12	613	4.96
184	Vagina	0	1	0	0	1	1	2	7	22	16	20	14	28	16	25	10	163	1.32
188	Uri. Bladder	0	1	1	0	0	0	0	4	3	11	9	10	14	11	18	12	94	0.76
189	Kidney	12	1	0	0	2	4	1	2	2	6	11	6	9	8	5	3	72	0.58
190	Eye	21	5	1	0	1	1	0	0	2	1	0	0	1	0	0	0	33	0.27
191	Brain	14	16	7	6	11	12	13	12	9	15	8	15	9	7	5	5	164	1.33
192	Nervous System	0	1	1	0	0	0	1	4	1	0	0	0	0	1	0	0	9	0.07
193	Thyroid Gland	0	0	0	2	13	13	18	25	20	23	18	12	11	11	11	12	189	1.53
194	Oth. Endo. Gland	7	1	0	1	0	0	1	0	1	1	1	2	1	0	0	1	17	0.14
195	Ill Def. Sites	3	1	1	0	1	0	2	2	2	5	1	2	3	1	2	4	30	0.24
196	Sec. Lymph. Node	0	0	1	3	2	2	3	7	8	6	7	13	15	11	6	5	89	0.72
197	Sec. Res. Etc	0	1	1	0	4	2	6	7	18	17	23	30	27	18	14	19	187	1.51
198	Sec. Other	0	1	1	1	1	3	1	2	7	12	9	6	7	6	7	2	66	0.53
199	Prim. Unknown	1	0	1	2	4	8	9	9	20	30	41	26	23	14	15	15	218	1.76
200	Lymphosarcoma	0	3	1	1	2	0	2	1	4	3	3	3	5	4	2	0	34	0.28
201	Hodgkins. Disease	3	10	9	4	13	6	3	7	2	2	7	1	5	2	0	1	75	0.61
202	Oth. Lymph. Node	2	8	12	10	13	19	15	14	12	19	8	15	21	16	16	4	204	1.65
203	Mult. Myeloma	0	0	0	0	0	0	1	2	2	4	3	7	7	3	6	5	40	0.32
204	Leuk. Lymphatic	33	16	16	6	5	2	4	2	8	1	0	6	3	2	4	4	112	0.91
205	Leuk. Myelocytic	4	6	8	13	12	11	15	8	12	9	11	15	8	13	3	2	150	1.21
206	Leuk. Monocytic	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0.02
207	Leuk. Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	Leuk. Unspecified	4	0	1	4	2	0	1	2	1	2	0	1	3	2	4	1	28	0.23
	All Sites	122	85	95	119	221	334	475	933	1212	1561	1672	1619	1582	1047	724	554	12355	100.0

TABLE: CHN-5(a):
Trends in Crude (CR)& Age Adjusted (AAR) Cancer Incidence Rates from 1990 to 1996 - Males
Chennai

ICD-9	Site	1990		1991		1992		1993		1994		1995		1996	
		CR	AAR	CR	AAR	CR	AAR	CR	AAR	CR	AAR	CR	AAR	CR	AAR
140	Lip	0.2	0.2	0.4	0.5	0.2	0.2	0.4	0.5	0.3	0.5	0.1	0.2	0.2	0.2
141	Tongue	2.7	3.8	4.3	5.8	3.5	4.7	3.7	5.0	4.1	5.8	3.6	5.0	3.9	5.3
142	Salivary Gland	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.6	0.7	0.3	0.4
143	Gum	0.7	1.1	0.8	1.1	0.3	0.5	0.9	1.2	0.5	0.7	0.8	1.3	0.7	1.0
144	Floor of Mouth	0.5	0.7	0.5	0.6	0.7	0.9	0.7	1.0	0.6	0.8	0.6	0.8	0.4	0.6
145	Other Mouth	3.2	4.7	3.2	4.1	3.3	4.8	3.5	4.9	3.5	4.8	3.1	4.1	3.8	5.0
146	Oropharynx	1.7	2.5	1.6	2.2	2.0	2.8	1.5	2.0	1.5	2.1	2.3	3.2	1.4	1.9
147	Nasopharynx	0.4	0.4	0.6	0.7	0.8	1.0	0.5	0.7	0.8	0.9	0.5	0.6	0.6	0.7
148	Hypopharynx	3.3	4.7	3.8	5.2	4.5	6.1	3.7	4.9	3.3	4.4	4.4	5.8	3.6	4.8
149	Pharynx Etc.	0.6	0.9	0.9	1.1	0.5	0.8	0.5	0.7	0.4	0.7	0.9	1.2	0.5	0.7
150	Oesophagus	6.8	9.7	7.4	10.4	6.3	8.8	6.1	8.4	6.3	8.6	6.3	8.6	5.3	7.2
151	Stomach	10.3	14.3	9.9	14.0	10.2	14.1	9.6	13.2	9.0	12.3	9.6	12.9	10.9	14.5
152	Small Intestine	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.4	0.2	0.3
153	Colon	1.0	1.3	1.5	1.9	1.2	1.5	1.4	1.9	1.5	1.8	1.3	1.7	1.6	2.0
154	Rectum	2.4	3.1	2.1	2.9	2.7	3.3	2.1	2.8	1.9	2.5	2.7	3.6	2.0	2.5
155	Liver	1.5	2.1	1.5	2.3	1.6	2.0	1.2	1.6	1.8	2.4	2.2	3.0	2.3	3.2
156	Gall Bladder	0.3	0.4	0.4	0.5	0.5	0.7	0.2	0.3	0.4	0.6	0.6	0.8	0.4	0.6
157	Pancreas	1.1	1.5	1.0	1.3	0.9	1.2	1.3	1.7	1.3	1.7	1.6	2.2	1.2	1.5
158	Retroperitoneum	0.1	0.1	0.1	0.1	0.3	0.4	0.1	0.1	0.3	0.4	0.1	0.1	0.1	0.1
159	Other Dig System	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1
160	Nasal Cavity	0.5	0.7	0.4	0.6	0.7	0.8	0.5	0.5	0.9	1.0	0.6	0.7	0.4	0.4
161	Larynx	3.4	4.9	3.5	4.8	2.4	3.3	3.4	4.9	3.5	4.7	3.3	4.5	3.1	4.0
162	Lung	9.4	12.6	8.4	11.5	8.5	12.1	9.2	12.4	7.7	10.6	6.6	9.0	8.0	10.7
163	Pleura	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1
164	Thymus	0.2	0.2	0.1	0.0	0.2	0.2	0.0	0.0	0.4	0.4	0.2	0.2	0.1	0.2
165	Other Resp.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	Bone	0.8	0.7	1.2	1.0	0.8	0.9	0.7	0.7	0.5	0.4	0.6	0.6	0.7	0.8
171	Conn. Tissue	0.7	0.8	0.7	0.7	0.8	0.9	0.7	0.8	1.0	1.3	0.7	0.8	0.7	0.9
172	Skin Melanoma	0.2	0.3	0.2	0.3	0.4	0.5	0.3	0.5	0.2	0.2	0.4	0.5	0.2	0.3
173	Skin. Other	0.7	0.9	1.2	1.7	1.2	1.7	1.2	1.6	1.4	1.9	1.0	1.4	1.1	1.4
175	Breast Male	0.1	0.1	0.2	0.2	0.2	0.3	0.1	0.1	0.1	0.2	0.4	0.6	0.3	0.4
185	Prostate	1.6	2.6	1.9	3.0	2.3	3.8	1.6	2.6	2.9	4.5	3.3	5.2	3.1	4.7
186	Testis	0.5	0.6	0.6	0.5	0.4	0.4	0.6	0.6	0.5	0.5	0.8	0.8	0.9	0.9
187	Penis Etc.	1.6	2.2	2.1	2.9	2.3	3.0	2.0	2.6	1.5	1.9	1.5	2.0	1.4	1.8
188	Uri. Bladder	1.7	2.7	1.6	2.4	1.4	1.9	1.3	1.8	2.4	3.5	1.8	2.5	1.8	2.5
189	Kidney	0.8	1.0	0.7	0.9	0.9	1.3	0.7	0.9	0.7	0.7	1.0	1.3	1.0	1.4
190	Eye	0.6	0.8	0.2	0.3	0.1	0.2	0.3	0.5	0.1	0.1	0.1	0.2	0.4	0.5
191	Brain	1.7	1.9	1.9	2.2	1.7	1.9	2.3	2.5	2.3	2.5	2.5	2.8	2.9	3.2
192	Nervous System	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
193	Thyroid Gland	0.4	0.6	0.5	0.7	0.6	0.8	0.8	1.0	1.0	1.2	0.6	0.8	0.5	0.7
194	Oth. Endo. Gland	0.1	0.1	0.0	0.0	0.4	0.5	0.1	0.1	0.3	0.4	0.0	0.0	0.0	0.0
195	Ill Def. Sites	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2
196	Sec. Lymph. Node	1.0	1.4	1.4	2.0	0.8	1.1	1.1	1.5	0.9	1.2	1.0	1.4	1.1	1.4
197	Sec. Res. Etc	2.8	3.8	2.7	3.7	2.1	2.8	1.7	2.4	2.1	2.9	1.7	2.2	2.5	3.3
198	Sec. Other	0.7	0.9	0.3	0.4	0.5	0.8	0.6	0.8	0.4	0.6	0.5	0.6	0.6	0.7
199	Prim. Unknown	1.7	2.2	1.7	2.2	2.1	2.7	1.5	2.1	1.6	2.1	0.8	1.1	0.6	0.9
200	Lymphosarcoma	0.6	0.7	0.6	0.5	0.5	0.6	0.4	0.4	0.1	0.2	0.2	0.3	0.5	0.6
201	Hodgkins. Disease	1.3	1.2	1.2	1.3	0.7	0.8	1.4	1.5	1.1	1.1	1.3	1.4	1.3	1.3
202	Oth. Lymph. Node	2.9	3.2	2.4	2.7	2.4	2.7	2.4	2.9	2.2	2.5	3.0	3.4	2.5	2.9
203	Mult. Myeloma	0.6	0.8	0.7	0.9	0.5	0.8	0.7	1.0	0.9	1.2	0.9	1.3	0.5	0.6
204	Leuk. Lymphatic	1.2	1.2	1.3	1.4	1.7	1.9	2.0	2.4	1.7	1.8	1.4	1.4	1.6	1.8
205	Leuk. Myelocytic	1.4	1.6	1.2	1.3	0.9	1.0	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.5
206	Leuk. Monocytic	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
207	Leuk. Misc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
208	Leuk. Unspecified	0.2	0.2	0.0	0.0	0.1	0.1	0.5	0.6	0.7	0.9	0.3	0.4	0.3	0.3
	All Sites	77.2	103.4	79.8	105.7	78.0	104.9	77.4	103.0	78.7	103.7	79.6	105.4	79.3	103.1

TABLE: CHN-5(b):

Trends in Crude (CR)& Age Adjusted (AAR) Cancer Incidence Rates from 1990 to 1996 - Females
Chennai

ICD-9	Site	1990		1991		1992		1993		1994		1995		1996	
		CR	AAR	CR	AAR	CR	AAR	CR	AAR	CR	AAR	CR	AAR	CR	AAR
140	Lip	0.4	0.6	0.4	0.6	0.3	0.4	0.1	0.1	0.3	0.4	0.2	0.2	0.1	0.1
141	Tongue	1.4	1.9	1.6	2.2	1.2	1.7	0.9	1.3	1.2	1.5	1.4	1.9	1.4	1.8
142	Salivary Gland	0.3	0.4	0.2	0.2	0.5	0.6	0.4	0.4	0.2	0.2	0.2	0.1	0.2	0.4
143	Gum	0.8	1.2	1.5	2.2	0.7	1.1	0.7	0.9	0.7	0.9	0.8	1.0	0.6	0.8
144	Floor of Mouth	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0
145	Other Mouth	4.7	6.5	3.4	4.5	4.5	6.3	3.3	4.6	3.1	3.9	3.5	4.5	2.9	3.8
146	Oropharynx	0.4	0.6	0.5	0.7	0.2	0.2	0.4	0.4	0.2	0.3	0.3	0.4	0.3	0.5
147	Nasopharynx	0.5	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.2	0.3	0.3
148	Hypopharynx	1.4	1.6	2.0	2.5	1.6	1.9	1.2	1.4	1.9	2.5	1.3	1.7	1.0	1.4
149	Pharynx Etc.	0.2	0.3	0.1	0.2	0.2	0.2	0.2	0.3	0.1	0.1	0.2	0.2	0.0	0.1
150	Oesophagus	4.5	6.0	4.7	6.5	4.3	5.8	3.6	4.8	4.4	5.9	4.8	6.5	5.4	6.9
151	Stomach	5.0	6.7	4.3	5.6	4.9	6.5	5.4	7.0	4.7	6.2	5.2	6.6	5.5	6.8
152	Small Intestine	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
153	Colon	1.2	1.6	1.2	1.6	0.7	1.0	1.0	1.4	1.0	1.2	1.4	1.8	1.3	1.7
154	Rectum	2.1	2.8	1.8	2.5	2.6	3.3	1.2	1.6	1.7	2.1	1.8	2.4	1.7	2.0
155	Liver	0.4	0.4	0.2	0.3	0.3	0.4	0.6	0.8	0.8	1.1	0.6	0.8	1.2	1.6
156	Gall Bladder	0.2	0.3	0.4	0.5	0.4	0.6	0.4	0.6	1.0	1.4	1.1	1.4	0.7	0.9
157	Pancreas	0.4	0.6	0.4	0.5	0.5	0.7	0.7	0.9	0.5	0.6	0.5	0.6	0.7	0.9
158	Retroperitoneum	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.4	0.4	0.2	0.2	0.2	0.2
159	Other Dig System	0.2	0.2	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
160	Nasal Cavity	0.5	0.6	0.3	0.4	0.4	0.5	0.4	0.5	0.2	0.3	0.2	0.3	0.4	0.5
161	Larynx	0.3	0.5	0.4	0.6	0.4	0.5	0.4	0.6	0.2	0.3	0.5	0.6	0.5	0.6
162	Lung	1.9	2.7	1.6	2.1	2.4	3.1	1.6	2.1	1.2	1.6	1.5	1.9	2.3	3.1
163	Pleura	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
164	Thymus	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2
165	Other Resp.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	Bone	0.3	0.3	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.6
171	Conn. Tissue	0.9	1.0	0.9	1.0	0.8	0.9	1.3	1.5	0.7	0.9	0.8	0.9	0.6	0.6
172	Skin Melanoma	0.3	0.4	0.1	0.1	0.2	0.3	0.2	0.3	0.3	0.4	0.2	0.2	0.1	0.2
173	Skin. Other	0.7	0.9	0.9	1.0	0.8	1.1	0.9	1.1	0.9	1.1	0.8	1.1	1.0	1.3
174	Breast Female	16.7	21.4	16.3	20.6	16.0	20.3	17.5	21.6	18.1	22.1	17.9	21.6	19.2	23.8
179	Uterus NOS.	0.4	0.5	0.1	0.2	0.3	0.4	0.3	0.4	0.3	0.3	0.7	1.0	0.7	1.0
180	Cervix Uteri	27.3	34.7	26.5	33.4	24.0	30.9	25.9	32.3	24.2	29.9	22.6	27.9	21.8	27.0
181	Placenta	0.3	0.2	0.3	0.2	0.3	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2
182	Corpus Uteri	1.4	2.0	1.3	1.8	1.4	1.8	1.7	2.3	1.3	1.7	1.7	2.3	1.6	2.2
183	Ovary Etc.	4.2	5.1	4.7	5.6	4.4	5.5	4.9	5.9	4.2	5.0	4.2	4.9	5.2	6.4
184	Other Fem Gen.	1.3	1.8	1.4	1.9	1.1	1.5	1.0	1.3	1.1	1.4	1.2	1.6	1.3	1.8
188	Uri. Bladder	0.6	1.0	0.6	0.9	0.7	1.0	0.5	0.8	1.0	1.3	0.7	0.9	0.7	1.0
189	Kidney	0.6	0.9	0.5	0.7	0.5	0.7	0.5	0.6	0.4	0.6	0.7	0.8	0.6	0.8
190	Eye	0.4	0.5	0.3	0.4	0.3	0.4	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.5
191	Brain	1.1	1.2	0.8	1.0	0.9	1.1	1.3	1.5	1.0	1.1	1.5	1.6	1.8	2.0
192	Nervous System	0.2	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
193	Thyroid Gland	1.4	1.6	1.7	1.9	1.3	1.5	1.1	1.2	1.3	1.5	1.7	1.8	1.4	1.5
194	Oth. Endo. Gland	0.2	0.2	0.1	0.2	0.0	0.0	0.2	0.2	0.3	0.3	0.0	0.0	0.1	0.2
195	Ill Def. Sites	0.2	0.2	0.1	0.2	0.3	0.3	0.2	0.2	0.5	0.6	0.3	0.3	0.1	0.2
196	Sec. Lymph. Node	1.1	1.4	0.8	0.9	0.6	0.8	0.4	0.6	0.7	0.9	0.4	0.5	0.6	0.8
197	Sec. Res. Etc	1.2	1.7	1.8	2.5	1.2	1.5	1.8	2.4	1.1	1.3	1.4	1.8	1.3	1.7
198	Sec. Other	0.5	0.7	0.4	0.5	0.4	0.5	0.8	0.9	0.6	0.8	0.3	0.4	0.4	0.6
199	Prim. Unknown	1.9	2.4	1.9	2.4	2.3	2.9	2.0	2.5	1.4	1.7	1.2	1.6	0.8	1.0
200	Lymphosarcoma	0.3	0.4	0.5	0.6	0.2	0.2	0.4	0.4	0.1	0.0	0.2	0.2	0.2	0.3
201	Hodgkins. Disease	0.4	0.3	0.8	0.7	0.8	0.8	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
202	Oth. Lymph. Node	1.4	1.5	1.3	1.4	1.5	1.7	1.4	1.6	1.7	2.1	2.0	2.3	1.4	1.5
203	Mult. Myeloma	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.4	0.5
204	Leuk. Lymphatic	1.1	1.3	0.5	0.6	0.9	1.1	0.8	0.9	0.9	1.1	1.0	1.2	0.6	0.6
205	Leuk. Myelocytic	0.8	0.9	0.8	0.9	1.1	1.2	1.6	1.7	1.1	1.2	1.2	1.3	1.2	1.3
206	Leuk. Monocytic	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
207	Leuk. Misc.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
208	Leuk. Unspecified	0.2	0.2	0.1	0.1	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3
	All Sites	94.8	121.5	92.0	116.9	90.0	115.2	91.9	114.7	90.1	111.3	90.9	112.0	92.1	115.4

TABLE: CHN-6(a): Cumulative Rate (Cu.Rate%) & Cumulative Risk (Cu. Risk) of Individual Sites (ICD-9) Based on Age Specific Rates (from 0-64 Years and from 0-74 Years) 1990-1996: Males Chennai

ICD-9	Site	0 - 64 Years		0 - 74 Years	
		Cu.Rate %	Cu.Risk	Cu.Rate%	Cu.Risk
140	Lip	0.03	0.03	0.04	0.04
141	Tongue	0.36	0.36	0.63	0.63
142	Salivary Gland	0.03	0.03	0.05	0.05
143	Gum	0.06	0.06	0.13	0.13
144	Floor of Mouth	0.06	0.06	0.09	0.09
145	Other Mouth	0.31	0.32	0.57	0.58
146	Oropharynx	0.17	0.17	0.30	0.30
147	Nasopharynx	0.05	0.05	0.08	0.08
148	Hypopharynx	0.36	0.36	0.63	0.63
149	Pharynx Etc.	0.05	0.05	0.10	0.10
150	Oesophagus	0.62	0.62	1.08	1.07
151	Stomach	0.90	0.90	1.68	1.67
152	Small Intestine	0.01	0.01	0.01	0.01
153	Colon	0.12	0.12	0.20	0.20
154	Rectum	0.19	0.19	0.34	0.34
155	Liver	0.15	0.15	0.29	0.29
156	Gall Bladder	0.04	0.04	0.06	0.06
157	Pancreas	0.11	0.11	0.19	0.18
158	Retroperitoneum	0.02	0.02	0.01	0.02
159	Other Dig System	0.01	0.01	0.01	0.01
160	Nasal Cavity	0.05	0.05	0.08	0.08
161	Larynx	0.31	0.31	0.56	0.56
162	Lung	0.81	0.81	1.42	1.41
163	Pleura	0.01	0.01	0.01	0.01
164	Thymus	0.02	0.02	0.02	0.02
165	Other Resp.	0.00	0.00	0.00	0.00
170	Bone	0.05	0.05	0.05	0.05
171	Conn. Tissue	0.05	0.05	0.08	0.08
172	Skin Melanoma	0.02	0.02	0.03	0.04
173	Skin. Other	0.09	0.08	0.19	0.19
175	Breast Male	0.01	0.01	0.03	0.03
185	Prostate	0.11	0.11	0.42	0.42
186	Testis	0.05	0.05	0.06	0.06
187	Penis Etc.	0.17	0.17	0.28	0.28
188	Uri. Bladder	0.13	0.13	0.30	0.31
189	Kidney	0.08	0.08	0.12	0.12
190	Eye	0.02	0.02	0.01	0.02
191	Brain	0.17	0.17	0.21	0.23
192	Nervous System	0.01	0.01	0.01	0.01
193	Thyroid Gland	0.06	0.06	0.11	0.11
194	Oth. Endo. Gland	0.01	0.01	0.01	0.01
195	Ill Def. Sites	0.01	0.02	0.02	0.02
196	Sec. Lymph. Node	0.09	0.09	0.18	0.18
197	Sec. Res. Etc	0.19	0.20	0.35	0.35
198	Sec. Other	0.05	0.05	0.08	0.08
199	Prim. Unknown	0.13	0.13	0.20	0.20
200	Lymphosarcoma	0.03	0.03	0.04	0.04
201	Hodgkins. Disease	0.08	0.08	0.08	0.09
202	Oth. Lymph. Node	0.20	0.20	0.29	0.29
203	Mult. Myeloma	0.05	0.05	0.13	0.13
204	Leuk. Lymphatic	0.09	0.09	0.06	0.10
205	Leuk. Myelocytic	0.09	0.09	0.13	0.14
206	Leuk. Monocytic	0.00	0.00	0.00	0.00
207	Leuk. Misc.	0.00	0.00	0.00	0.00
208	Leuk. Unspecified	0.02	0.02	0.03	0.03
	All Sites	6.87	6.64	12.05	11.49

**TABLE: CHN-6(b): Cumulative Rate (Cu.Rate%) & Cumulative Risk (Cu. Risk) of Individual Sites (ICD-9) Based on Age Specific Rates (from 0-64 Years and from 0-74 Years) 1990-1996: Females
Chennai**

ICD-9	Site	0 - 64 Years		0 - 74 Years	
		Cu.Rate %	Cu.Risk	Cu.Rate%	Cu.Risk
140	Lip	0.02	0.02	0.04	0.04
141	Tongue	0.13	0.13	0.22	0.22
142	Salivary Gland	0.02	0.02	0.04	0.04
143	Gum	0.09	0.09	0.14	0.14
144	Floor of Mouth	0.01	0.01	0.01	0.01
145	Other Mouth	0.37	0.37	0.59	0.59
146	Oropharynx	0.03	0.03	0.06	0.06
147	Nasopharynx	0.02	0.02	0.03	0.03
148	Hypopharynx	0.15	0.15	0.22	0.22
149	Pharynx Etc.	0.01	0.01	0.02	0.02
150	Oesophagus	0.45	0.45	0.76	0.76
151	Stomach	0.48	0.47	0.75	0.75
152	Small Intestine	0.01	0.01	0.02	0.02
153	Colon	0.10	0.10	0.17	0.17
154	Rectum	0.18	0.18	0.27	0.27
155	Liver	0.05	0.05	0.09	0.10
156	Gall Bladder	0.06	0.06	0.10	0.10
157	Pancreas	0.04	0.05	0.09	0.09
158	Retroperitoneum	0.01	0.01	0.02	0.02
159	Other Dig System	0.00	0.00	0.01	0.01
160	Nasal Cavity	0.03	0.03	0.05	0.05
161	Larynx	0.04	0.04	0.07	0.07
162	Lung	0.18	0.18	0.29	0.30
163	Pleura	0.00	0.00	0.00	0.00
164	Thymus	0.00	0.00	0.01	0.01
165	Other Resp.	0.00	0.00	0.00	0.00
170	Bone	0.03	0.03	0.04	0.04
171	Conn. Tissue	0.07	0.07	0.09	0.10
172	Skin Melanoma	0.02	0.02	0.03	0.03
173	Skin. Other	0.07	0.07	0.11	0.11
174	Breast	1.67	1.66	2.40	2.37
179	Uterus NOS.	0.04	0.04	0.06	0.06
180	Cervix	2.58	2.54	3.45	3.39
181	Placenta	0.01	0.01	0.01	0.01
182	Body Uterus	0.14	0.13	0.24	0.24
183	Ovary	0.43	0.43	0.63	0.63
184	Vagina	0.11	0.11	0.21	0.21
188	Uri. Bladder	0.05	0.05	0.13	0.13
189	Kidney	0.05	0.04	0.07	0.07
190	Eye	0.02	0.02	0.01	0.02
191	Brain	0.09	0.09	0.11	0.12
192	Nervous System	0.00	0.00	0.01	0.01
193	Thyroid Gland	0.11	0.11	0.16	0.16
194	Oth. Endo. Gland	0.01	0.01	0.01	0.01
195	Ill Def. Sites	0.02	0.02	0.02	0.03
196	Sec. Lymph. Node	0.06	0.06	0.10	0.10
197	Sec. Res. Etc	0.13	0.13	0.21	0.21
198	Sec. Other	0.04	0.04	0.08	0.08
199	Prim. Unknown	0.15	0.16	0.23	0.23
200	Lymphosarcoma	0.02	0.02	0.04	0.03
201	Hodgkins. Disease	0.04	0.04	0.04	0.04
202	Oth. Lymph. Node	0.11	0.11	0.19	0.19
203	Mult. Myeloma	0.03	0.03	0.05	0.05
204	Leuk. Lymphatic	0.05	0.05	0.05	0.07
205	Leuk. Myelocytic	0.09	0.08	0.12	0.12
206	Leuk. Monocytic	0.00	0.00	0.00	0.00
207	Leuk. Misc.	0.00	0.00	0.00	0.00
208	Leuk. Unspecified	0.01	0.01	0.03	0.03
	All Sites	8.76	8.37	12.98	12.23

**TABLE: CHN-7(a): Number (#) and Proportion (%) of Cancers by Site (ICD-9) and Method of Diagnosis 1990-1996 - Males
Chennai**

ICD-9	Site	Clinical		Microscopic		X-Ray		D.C.O.		Others		Total	
		#	%	#	%	#	%	#	%	#	%	#	%
140	Lip	9	24.3	0	0.0	28	75.7	0	0.0	0	0.0	37	100.0
141	Tongue	113	21.2	2	0.4	414	77.5	5	0.9	0	0.0	535	100.0
142	Salivary Gland	15	26.8	0	0.0	39	69.6	0	0.0	2	3.6	55	100.0
143	Gum	20	20.6	0	0.0	77	79.4	0	0.0	0	0.0	98	100.0
144	Floor of Mouth	10	11.9	0	0.0	74	88.1	0	0.0	0	0.0	84	100.0
145	Other Mouth	130	26.6	2	0.4	353	72.2	4	0.8	0	0.0	489	100.0
146	Oropharynx	50	20.0	4	1.6	192	76.8	3	1.2	1	0.4	250	100.0
147	Nasopharynx	12	13.6	0	0.0	74	84.1	0	0.0	2	2.3	87	100.0
148	Hypopharynx	67	12.2	19	3.5	462	84.2	1	0.2	0	0.0	550	100.0
149	Pharynx Etc.	14	15.6	4	4.4	48	53.3	24	26.7	0	0.0	90	100.0
150	Oesophagus	22	2.4	180	19.6	690	75.0	18	2.0	10	1.1	920	100.0
151	Stomach	69	4.8	262	18.2	969	67.4	56	3.9	82	5.7	1437	100.0
152	Small Intestine	0	0.0	1	4.8	20	95.2	0	0.0	0	0.0	21	100.0
153	Colon	6	3.1	27	13.9	149	76.8	2	1.0	10	5.2	194	100.0
154	Rectum	30	9.1	20	6.1	264	80.2	7	2.1	8	2.4	329	100.0
155	Liver	4	1.6	0	0.0	194	76.4	9	3.5	47	18.5	253	100.0
156	Gall Bladder	4	6.8	2	3.4	35	59.3	1	1.7	17	28.8	59	100.0
157	Pancreas	11	6.2	11	6.2	78	44.1	8	4.5	69	39.0	175	100.0
158	Retroperitoneum	0	0.0	2	9.1	17	77.3	0	0.0	3	13.6	22	100.0
159	Other Dig System	1	10.0	3	30.0	3	30.0	0	0.0	3	30.0	10	100.0
160	Nasal Cavity	8	10.3	2	2.6	67	85.9	0	0.0	1	1.3	79	100.0
161	Larynx	56	12.0	11	2.4	391	83.7	8	1.7	1	0.2	468	100.0
162	Lung	13	1.1	316	26.6	789	66.3	22	1.9	50	4.2	1190	100.0
163	Pleura	0	0.0	0	0.0	7	100.0	0	0.0	0	0.0	7	100.0
164	Thymus	0	0.0	3	12.0	17	68.0	0	0.0	5	20.0	25	100.0
165	Other Resp.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	Bone	2	1.8	4	3.6	102	92.7	2	1.8	0	0.0	110	100.0
171	Conn. Tissue	2	1.8	0	0.0	112	98.3	0	0.0	0	0.0	113	100.0
172	Skin Melanoma	1	2.5	0	0.0	39	97.5	0	0.0	0	0.0	40	100.0
173	Skin. Other	4	2.5	0	0.0	153	96.8	1	0.6	0	0.0	159	100.0
175	Breast Male	2	7.1	0	0.0	25	89.3	1	3.6	0	0.0	27	100.0
185	Prostate	42	12.1	5	1.5	261	75.4	6	1.7	32	9.3	347	100.0
186	Testis	6	6.8	0	0.0	77	87.5	0	0.0	5	5.7	89	100.0
187	Penis Etc.	51	19.9	0	0.0	203	79.3	2	0.8	0	0.0	255	100.0
188	Uri. Bladder	5	2.0	9	3.6	197	79.8	3	1.2	33	13.4	246	100.0
189	Kidney	1	0.8	0	0.0	104	87.4	3	2.5	11	9.2	119	100.0
190	Eye	1	2.6	0	0.0	37	94.9	0	0.0	1	2.6	39	100.0
191	Brain	1	0.3	0	0.0	260	81.8	10	3.1	47	14.8	318	100.0
192	Nervous System	0	0.0	0	0.0	8	88.9	0	0.0	1	11.1	9	100.0
193	Thyroid Gland	9	10.0	2	2.2	71	78.9	2	2.2	6	6.7	91	100.0
194	Oth. Endo. Gland	0	0.0	0	0.0	20	90.9	0	0.0	2	9.1	22	100.0
195	Ill Def. Sites	4	18.2	0	0.0	12	54.6	3	13.6	3	13.6	22	100.0
196	Sec. Lymph. Node	28	18.9	0	0.0	117	79.1	0	0.0	3	2.0	148	100.0
197	Sec. Res. Etc	9	2.8	30	9.3	71	22.1	16	5.0	196	60.9	322	100.0
198	Sec. Other	2	2.7	10	13.7	42	57.5	1	1.4	18	24.7	73	100.0
199	Prim. Unknown	5	2.4	0	0.0	0	0.0	200	97.1	1	0.5	206	100.0
200	Lymphosarcoma	0	0.0	0	0.0	59	98.3	1	1.7	0	0.0	60	100.0
201	Hodgkins. Disease	0	0.0	0	0.0	170	98.8	2	1.2	0	0.0	172	100.0
202	Oth. Lymph. Node	0	0.0	0	0.0	353	97.5	7	1.9	2	0.6	363	100.0
203	Mult. Myeloma	0	0.0	0	0.0	98	100.0	0	0.0	0	0.0	98	100.0
204	Leuk. Lymphatic	0	0.0	0	0.0	223	99.6	1	0.5	0	0.0	224	100.0
205	Leuk. Myelocytic	0	0.0	0	0.0	180	99.5	1	0.6	0	0.0	181	100.0
206	Leuk. Monocytic	0	0.0	0	0.0	2	100.0	0	0.0	0	0.0	2	100.0
207	Leuk. Misc.	0	0.0	0	0.0	1	100.0	0	0.0	0	0.0	1	100.0
208	Leuk. Unspecified	0	0.0	0	0.0	35	76.1	11	23.9	0	0.0	46	100.0
	All Sites	839	7.4	931	8.2	8483	74.6	441	3.9	672	5.9	11366	100.0

**TABLE: CHN-7(b): Number (#) and Proportion (%) of Cancers by Site (ICD-9) and Method of Diagnosis 1990-1996 - Females
Chennai**

ICD-9	Site	Clinical		Microscopic		X-Ray		D.C.O.		Others		Total	
		#	%	#	%	#	%	#	%	#	%	#	%
140	Lip	8	25.8	0	0.0	23	74.2	0	0.0	0	0.0	31	100.0
141	Tongue	44	25.0	0	0.0	130	73.9	2	1.1	0	0.0	176	100.0
142	Salivary Gland	5	13.2	0	0.0	33	86.8	0	0.0	0	0.0	38	100.0
143	Gum	35	31.8	0	0.0	75	68.2	0	0.0	0	0.0	110	100.0
144	Floor of Mouth	2	18.2	0	0.0	9	81.8	0	0.0	0	0.0	11	100.0
145	Other Mouth	134	27.3	0	0.0	354	72.1	3	0.6	0	0.0	489	100.0
146	Oropharynx	6	13.6	1	2.3	37	84.1	0	0.0	0	0.0	44	100.0
147	Nasopharynx	4	9.3	3	7.0	35	81.4	0	0.0	1	2.3	43	100.0
148	Hypopharynx	33	16.1	6	2.9	165	80.5	1	0.5	0	0.0	202	100.0
149	Pharynx Etc.	4	22.2	0	0.0	8	44.4	6	33.3	0	0.0	18	100.0
150	Oesophagus	10	1.6	109	17.8	471	76.8	17	2.8	6	1.0	613	100.0
151	Stomach	39	5.8	129	19.1	433	64.2	36	5.3	38	5.6	677	100.0
152	Small Intestine	0	0.0	2	16.7	9	75.0	0	0.0	1	8.3	12	100.0
153	Colon	8	5.3	19	12.5	112	73.7	5	3.3	8	5.3	150	100.0
154	Rectum	11	4.4	25	10.1	208	83.9	2	0.8	2	0.8	249	100.0
155	Liver	1	1.3	0	0.0	56	70.0	8	10.0	15	18.8	80	100.0
156	Gall Bladder	3	3.7	2	2.5	46	56.8	1	1.2	29	35.8	81	100.0
157	Pancreas	2	2.8	4	5.6	38	53.5	2	2.8	25	35.2	71	100.0
158	Retroperitoneum	1	4.8	2	9.5	17	81.0	0	0.0	1	4.8	21	100.0
159	Other Dig System	0	0.0	2	22.2	5	55.6	1	11.1	1	11.1	9	100.0
160	Nasal Cavity	7	15.2	1	2.2	37	80.4	1	2.2	0	0.0	47	100.0
161	Larynx	10	19.6	1	2.0	39	76.5	1	2.0	0	0.0	52	100.0
162	Lung	5	2.1	61	25.4	145	60.4	15	6.3	14	5.8	240	100.0
163	Pleura	0	0.0	0	0.0	4	100.0	0	0.0	0	0.0	4	100.0
164	Thymus	0	0.0	2	25.0	6	75.0	0	0.0	0	0.0	8	100.0
165	Other Resp.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	Bone	2	2.9	1	1.5	59	86.8	5	7.4	1	1.5	68	100.0
171	Conn. Tissue	2	1.7	2	1.7	109	94.8	1	0.9	1	0.9	115	100.0
172	Skin Melanoma	0	0.0	0	0.0	27	100.0	0	0.0	0	0.0	27	100.0
173	Skin. Other	5	4.4	0	0.0	110	95.7	0	0.0	0	0.0	117	100.0
174	Breast	291	12.3	3	0.1	1993	84.4	50	2.1	25	1.1	2359	100.0
179	Uterus NOS.	12	22.2	0	0.0	28	51.9	7	13.0	7	13.0	54	100.0
180	Cervix	452	13.6	1	0.0	2820	85.0	35	1.1	10	0.3	3320	100.0
181	Placenta	0	0.0	1	3.3	29	96.7	0	0.0	0	0.0	30	100.0
182	Body Uterus	9	4.5	1	0.5	184	91.5	0	0.0	7	3.5	200	100.0
183	Ovary	65	10.6	15	2.5	436	71.1	16	2.6	81	13.2	613	100.0
184	Vagina	22	13.6	0	0.0	139	85.8	0	0.0	1	0.6	163	100.0
188	Uri. Bladder	1	1.1	4	4.2	80	84.2	4	4.2	6	6.3	94	100.0
189	Kidney	2	2.7	0	0.0	63	86.3	1	1.4	7	9.6	72	100.0
190	Eye	0	0.0	0	0.0	33	100.0	0	0.0	0	0.0	33	100.0
191	Brain	0	0.0	1	0.6	123	75.5	17	10.4	22	13.5	164	100.0
192	Nervous System	0	0.0	0	0.0	9	100.0	0	0.0	0	0.0	9	100.0
193	Thyroid Gland	17	9.0	4	2.1	152	80.9	1	0.5	14	7.5	189	100.0
194	Oth. Endo. Gland	0	0.0	1	5.9	11	64.7	0	0.0	5	29.4	17	100.0
195	Ill Def. Sites	5	16.7	2	6.7	13	43.3	5	16.7	5	16.7	30	100.0
196	Sec. Lymph. Node	20	22.5	0	0.0	67	75.3	1	1.1	1	1.1	89	100.0
197	Sec. Res. Etc	9	4.8	15	8.0	66	35.3	9	4.8	88	47.1	187	100.0
198	Sec. Other	2	3.0	11	16.7	29	43.9	4	6.1	20	30.3	66	100.0
199	Prim. Unknown	8	3.7	0	0.0	0	0.0	210	96.3	0	0.0	218	100.0
200	Lymphosarcoma	0	0.0	0	0.0	34	100.0	0	0.0	0	0.0	34	100.0
201	Hodgkins. Disease	0	0.0	0	0.0	74	98.7	1	1.3	0	0.0	75	100.0
202	Oth. Lymph. Node	0	0.0	0	0.0	198	98.0	4	2.0	0	0.0	204	100.0
203	Mult. Myeloma	0	0.0	0	0.0	41	97.6	1	2.4	0	0.0	40	100.0
204	Leuk. Lymphatic	0	0.0	0	0.0	112	100.0	0	0.0	0	0.0	112	100.0
205	Leuk. Myelocytic	0	0.0	0	0.0	147	98.7	2	1.3	0	0.0	150	100.0
206	Leuk. Monocytic	0	0.0	0	0.0	2	100.0	0	0.0	0	0.0	2	100.0
207	Leuk. Misc.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
208	Leuk. Unspecified	0	0.0	0	0.0	19	67.9	9	32.1	0	0.0	28	100.0
	All Sites	1296	10.5	431	3.5	9702	78.5	484	3.9	442	3.6	12355	100.0

TABLE: CHN-8(a): Number (#) and Proportion (%) of Cancers by Site (ICD-9) and Detailed Microscopic Diagnosis, 1990-1996 - Males : Chennai

ICD-9	Site	Pri. Hist		Sec. Hist		Cytology		Blood Film		Bone Marrow		Others		Total	
		#	%	#	%	#	%	#	%	#	%	#	%	#	%
140	Lip	28	75.7	0	0	0	0	0	0	0	0	9	24.3	37	100
141	Tongue	411	76.8	3	0.6	1	0.2	0	0	0	0	120	22.4	535	100
142	Salivary Glands	35	63.6	0	0	3	5.5	0	0	0	0	17	30.9	55	100
143	Gum	78	79.6	0	0	0	0	0	0	0	0	20	20.4	98	100
144	Floor of Mouth	73	86.9	1	1.2	0	0	0	0	0	0	10	11.9	84	100
145	Other Mouth	346	70.8	3	0.6	3	0.6	0	0	0	0	137	28	489	100
146	Oropharynx	190	76	1	0.4	1	0.4	0	0	0	0	58	23.2	250	100
147	Nasopharynx	67	77	4	4.6	2	2.3	0	0	0	0	14	16.1	87	100
148	Hypopharynx	454	82.5	8	1.5	1	0.2	0	0	0	0	87	15.8	550	100
149	Pharynx etc	47	52.2	1	1.1	0	0	0	0	0	0	42	46.7	90	100
150	Oesophagus	685	74.5	5	0.5	0	0	0	0	0	0	230	25	920	100
151	Stomach	943	65.6	22	1.5	3	0.2	0	0	0	0	469	32.6	1437	100
152	Small Intestine	20	95.2	0	0	0	0	0	0	0	0	1	4.8	21	100
153	Colon	145	74.7	4	2.1	0	0	0	0	0	0	45	23.2	194	100
154	Rectum	261	79.3	3	0.9	0	0	0	0	0	0	65	19.8	329	100
155	Liver	174	68.8	1	0.4	18	7.1	0	0	0	0	60	23.7	253	100
156	Gall Bladder	29	49.2	6	10.2	0	0	0	0	0	0	24	40.7	59	100
157	Pancreas	64	36.6	12	6.9	0	0	0	0	0	0	99	56.6	175	100
158	Retroperito	15	68.2	1	4.5	1	4.5	0	0	0	0	5	22.7	22	100
159	Other Digs	1	10	2	20	0	0	0	0	0	0	7	70	10	100
160	Nasal Cavity	66	83.5	1	1.3	1	1.3	0	0	0	0	11	13.9	79	100
161	Larynx	388	82.9	1	0.2	3	0.6	0	0	0	0	76	16.2	468	100
162	Lung	527	44.3	61	5.1	201	16.9	0	0	0	0	401	33.7	1190	100
163	Pleura	5	71.4	0	0	2	28.6	0	0	0	0	0	0	7	100
164	Thymus	17	68	0	0	0	0	0	0	0	0	8	32	25	100
165	Other Resp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	Bone	102	92.7	0	0	0	0	0	0	0	0	8	7.3	110	100
171	Connective	108	95.6	0	0	3	2.7	0	0	0	0	2	1.8	113	100
172	Skin Melanoma	39	97.5	0	0	0	0	0	0	0	0	1	2.5	40	100
173	Skin Other	151	95	1	0.6	2	1.3	0	0	0	0	5	3.1	159	100
175	Breast Male	21	77.8	0	0	3	11.1	0	0	0	0	3	11.1	27	100
185	Prostate	262	75.5	0	0	0	0	0	0	0	0	85	24.5	347	100
186	Testis	74	83.1	3	3.4	1	1.1	0	0	0	0	11	12.4	89	100
187	Penis etc	201	78.8	2	0.8	0	0	0	0	0	0	52	20.4	255	100
188	Uri Bladder	190	77.2	1	0.4	5	2	0	0	0	0	50	20.3	246	100
189	Kidney	100	84	3	2.5	1	0.8	0	0	0	0	15	12.6	119	100
190	Eye	37	94.9	0	0	0	0	0	0	0	0	2	5.1	39	100
191	Brain	258	81.1	1	0.3	1	0.3	0	0	0	0	58	18.2	318	100
192	Nervous Sys	8	88.9	0	0	0	0	0	0	0	0	1	11.1	9	100
193	Thyroid Glands	64	70.3	2	2.2	6	6.6	0	0	0	0	19	20.9	91	100
194	Oth. Endo. Gland	20	90.9	0	0	0	0	0	0	0	0	2	9.1	22	100
195	Ill Def Site	6	27.3	3	13.6	3	13.6	0	0	0	0	10	45.5	22	100
196	Sec Lymph Node	0	0	109	73.6	8	5.4	0	0	0	0	31	20.9	148	100
197	Sec Res. Etc.	0	0	57	17.7	14	4.3	0	0	0	0	251	78	322	100
198	Sec Other	0	0	41	56.2	1	1.4	0	0	0	0	31	42.5	73	100
199	Prim Unknown	0	0	0	0	0	0	0	0	0	0	206	99.9	206	100
200	Lymph Sarcoma	59	98.3	0	0	0	0	0	0	0	0	1	1.7	60	100
201	Hodgkins Disease	169	98.3	0	0	0	0	0	0	1	0.6	2	1.2	172	100
202	Oth. Lymph. Node	348	95.9	0	0	3	0.8	0	0	3	0.8	9	2.5	363	100
203	Mult Myeloma	1	1	0	0	0	0	0	0	97	99	0	0	98	100
204	Leuk Lymphatic	0	0	0	0	0	0	5	2.2	218	97.3	1	0.4	224	100
205	Leuk Myelocytic	1	0.6	0	0	0	0	4	2.2	175	96.7	1	0.6	181	100
206	Leuk Monocytic	0	0	0	0	0	0	1	50	1	50	0	0	2	100
207	Leuk Oth Sp	0	0	0	0	0	0	0	0	1	99.9	0	0	1	100
208	Leuk unspecified	0	0	0	0	0	0	2	4.3	33	71.7	11	23.9	46	100
	All Sites	7288	64.1	363	3.2	291	2.6	12	0.1	529	4.7	2883	25.4	11366	100

TABLE: CHN-8(b): Number (#) and Proportion (%) of Cancers by Site (ICD-9) and Detailed Microscopic Diagnosis, 1990-1996 - Females : Chennai

ICD-9	Site	Pri. Hist		Sec. Hist		Cytology		Blood Film		Bone Marrow		Others		Total	
		#	%	#	%	#	%	#	%	#	%	#	%	#	%
140	Lip	23	74.2	0	0	0	0	0	0	0	0	8	25.8	31	100
141	Tongue	130	73.9	0	0	0	0	0	0	0	0	46	26.1	176	100
142	Salivary Glands	29	76.3	3	7.9	1	2.6	0	0	0	0	5	13.2	38	100
143	Gum	75	68.2	0	0	0	0	0	0	0	0	35	31.8	110	100
144	Floor of Mouth	9	81.8	0	0	0	0	0	0	0	0	2	18.2	11	100
145	Other Mouth	351	71.8	1	0.2	0	0	0	0	0	0	137	28	489	100
146	Oropharynx	34	77.3	1	2.3	2	4.5	0	0	0	0	7	15.9	44	100
147	Nasopharynx	34	79.1	0	0	1	2.3	0	0	0	0	8	18.6	43	100
148	Hypopharynx	160	79.2	1	0.5	1	0.5	0	0	0	0	40	19.8	202	100
149	Pharynx etc	8	44.4	0	0	0	0	0	0	0	0	10	55.6	18	100
150	Oesophagus	470	76.7	0	0	1	0.2	0	0	0	0	142	23.2	613	100
151	Stomach	419	61.9	15	2.2	1	0.1	0	0	0	0	242	35.7	677	100
152	Small Intestine	9	75	0	0	0	0	0	0	0	0	3	25	12	100
153	Colon	106	70.7	1	0.7	3	2	0	0	0	0	40	26.7	150	100
154	Rectum	207	83.1	2	0.8	0	0	0	0	0	0	40	16.1	249	100
155	Liver	52	65	0	0	4	5	0	0	0	0	24	30	80	100
156	Gall Bladder	41	50.6	4	4.9	1	1.2	0	0	0	0	35	43.2	81	100
157	Pancreas	33	46.5	4	5.6	1	1.4	0	0	0	0	33	46.5	71	100
158	Retroperito	16	76.2	0	0	1	4.8	0	0	0	0	4	19	21	100
159	Other Digs	4	44.4	0	0	1	11.1	0	0	0	0	4	44.4	9	100
160	Nasal Cavity	38	80.9	0	0	0	0	0	0	0	0	9	19.1	47	100
161	Larynx	40	76.9	0	0	0	0	0	0	0	0	12	23.1	52	100
162	Lung	98	40.8	11	4.6	36	15	0	0	0	0	95	39.6	240	100
163	Pleura	2	50	1	25	1	25	0	0	0	0	0	0	4	100
164	Thymus	5	62.5	1	12.5	0	0	0	0	0	0	2	25	8	100
165	Other Resp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	Bone	58	85.3	0	0	1	1.5	0	0	0	0	9	13.2	68	100
171	Connective	108	93.9	1	0.9	0	0	0	0	0	0	6	5.2	115	100
172	Skin Melanoma	27	99.9	0	0	0	0	0	0	0	0	0	0	27	100
173	Skin Other	109	93.2	1	0.9	2	1.7	0	0	0	0	5	4.3	117	100
174	Breast Female	1796	76.1	29	1.2	163	6.9	0	0	0	0	371	15.7	2359	100
179	Uterus NOS.	28	51.9	0	0	0	0	0	0	0	0	26	48.1	54	100
180	Cervix	2812	84.7	2	0.1	9	0.3	0	0	0	0	497	15	3320	100
181	Placenta	29	96.7	0	0	0	0	0	0	0	0	1	3.3	30	100
182	Body Uterus	182	91	1	0.5	0	0	0	0	0	0	17	8.5	200	100
183	Ovary	385	62.8	16	2.6	35	5.7	0	0	0	0	177	28.9	613	100
184	Vagina	139	85.3	1	0.6	1	0.6	0	0	0	0	22	13.5	163	100
188	Uri Bladder	79	84	0	0	0	0	0	0	0	0	15	16	94	100
189	Kidney	60	83.3	2	2.8	0	0	0	0	0	0	10	13.9	72	100
190	Eye	33	99.9	0	0	0	0	0	0	0	0	0	0	33	100
191	Brain	124	75.6	0	0	0	0	0	0	0	0	40	24.4	164	100
192	Nervous Sys	9	99.9	0	0	0	0	0	0	0	0	0	0	9	100
193	Thyroid Glands	135	71.4	5	2.6	13	6.9	0	0	0	0	36	19	189	100
194	Oth. Endo. Gland	11	64.7	0	0	0	0	0	0	0	0	6	35.3	17	100
195	Ill Def Site	7	23.3	5	16.7	1	3.3	0	0	0	0	17	56.7	30	100
196	Sec Lymph Node	0	0	65	73	2	2.2	0	0	0	0	22	24.7	89	100
197	Sec Res. Etc	0	0	45	24.1	21	11.2	0	0	0	0	121	64.7	187	100
198	Sec Other	0	0	29	43.9	0	0	0	0	0	0	37	56.1	66	100
199	Prim Unknown	0	0	0	0	0	0	0	0	0	0	218	99.9	218	100
200	Lymph Sarcoma	34	99.9	0	0	0	0	0	0	0	0	0	0	34	100
201	Hodgkins Disease	74	98.7	0	0	0	0	0	0	0	0	1	1.3	75	100
202	Oth. Lymph. Node	198	97.1	0	0	2	1	0	0	0	0	4	2	204	100
203	Mult Myeloma	0	0	0	0	0	0	0	0	39	97.5	1	2.5	40	100
204	Leuk Lymphatic	0	0	0	0	0	0	3	2.7	109	97.3	0	0	112	100
205	Leuk Myelocytic	0	0	0	0	0	0	10	6.7	138	92	2	1.3	150	100
206	Leuk Monocytic	0	0	0	0	0	0	0	0	2	99.9	0	0	2	100
207	Leuk Oth Sp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208	Leuk unspecified	0	0	0	0	0	0	2	7.1	17	60.7	9	32.1	28	100
	All Sites	8830	71.5	247	2	305	2.5	15	0.1	305	2.5	2653	21.5	12355	100

**TABLE: CHN-9(a): Number of Cancer Deaths by Five Year Age Group and Site (ICD-9)
1990-1996 - Males**

% = Relative Proportion of Cancers of All Sites.

Chennai

ICD-9	Site	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	>75	Total	%
140	Lip	0	0	0	0	0	0	1	0	0	2	2	0	4	2	0	0	11	0.16
141	Tongue	0	0	0	0	0	0	5	8	17	32	51	54	45	45	25	13	295	4.42
142	Salivary Gland	0	0	0	0	0	1	0	1	2	2	1	0	1	6	0	0	14	0.21
143	Gum	0	0	0	0	0	0	0	1	0	5	5	9	14	6	7	5	52	0.78
144	Floor of Mouth	0	0	0	0	0	0	0	0	5	6	6	9	6	2	2	3	39	0.58
145	Other Mouth	0	0	0	0	3	1	3	6	12	21	39	40	39	42	27	22	255	3.82
146	Oropharynx	0	0	0	0	0	0	0	1	3	14	25	29	22	13	15	8	130	1.95
147	Nasopharynx	0	1	2	0	2	4	1	2	1	4	5	4	3	3	5	6	43	0.64
148	Hypopharynx	0	0	0	2	1	2	10	8	17	24	46	47	65	40	28	20	310	4.64
149	Pharynx Etc.	0	0	0	1	0	0	0	3	4	6	9	10	9	7	6	13	68	1.02
150	Oesophagus	0	0	0	2	1	2	11	22	34	63	99	115	117	84	55	47	652	9.76
151	Stomach	1	0	0	1	4	6	14	42	59	83	148	170	164	135	87	95	1009	15.10
152	Small Intestine	0	0	0	0	1	0	0	1	1	0	0	0	3	0	0	4	10	0.15
153	Colon	0	0	0	0	1	2	2	5	4	10	23	14	15	15	7	9	107	1.60
154	Rectum	0	0	0	1	6	8	7	9	16	20	30	19	28	27	12	21	204	3.05
155	Liver	2	0	0	1	0	4	3	7	13	19	30	20	25	27	11	10	172	2.57
156	Gall Bladder	0	0	0	0	0	0	1	1	4	1	4	4	8	4	4	2	33	0.49
157	Pancreas	0	0	0	0	1	1	4	5	10	14	11	21	21	13	9	10	120	1.80
158	Retroperitoneum	1	0	0	0	0	0	0	1	1	1	1	1	5	0	0	0	11	0.16
159	Other Dig System	0	0	0	0	0	0	0	0	0	1	0	1	2	2	0	1	7	0.10
160	Nasal Cavity	0	0	0	0	2	3	2	2	2	2	7	2	3	6	4	4	39	0.58
161	Larynx	0	0	0	0	0	1	2	1	15	25	34	53	48	35	19	15	248	3.71
162	Lung	0	0	1	2	1	8	10	16	45	85	112	135	152	118	56	31	772	11.56
163	Pleura	0	0	0	0	0	0	0	1	0	2	0	0	1	0	0	0	4	0.06
164	Thymus	0	0	1	0	3	3	2	0	0	1	1	1	2	0	0	0	14	0.21
165	Other Resp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	Bone	0	1	3	8	6	5	2	0	0	3	0	1	2	0	3	2	36	0.54
171	Conn. Tissue	2	1	0	4	7	3	4	4	4	3	2	5	1	5	4	2	51	0.76
172	Skin Melanoma	0	1	0	0	0	0	2	1	1	1	4	1	2	2	2	3	20	0.30
173	Skin. Other	0	0	0	0	1	0	1	4	6	5	8	9	8	8	7	4	61	0.91
175	Breast Male	0	0	0	0	0	0	0	0	1	1	1	1	2	0	0	2	8	0.12
185	Prostate	0	0	0	0	0	0	0	3	0	0	5	10	24	19	28	60	149	2.23
186	Testis	2	0	0	1	6	1	2	2	0	3	2	2	2	1	3	1	28	0.42
187	Penis Etc.	0	0	0	0	0	3	5	2	7	10	17	23	19	4	9	13	112	1.68
188	Uri. Bladder	0	1	0	1	1	0	0	1	6	10	9	14	17	17	18	16	111	1.66
189	Kidney	3	0	1	0	0	1	1	3	4	8	6	9	10	3	6	2	57	0.85
190	Eye	3	2	0	0	0	0	1	1	0	1	1	0	0	0	1	1	11	0.16
191	Brain	8	11	6	3	10	13	13	16	16	16	19	19	13	18	4	8	193	2.89
192	Nervous System	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0.03
193	Thyroid Gland	0	0	0	0	0	0	2	0	0	2	6	7	9	4	5	5	40	0.60
194	Oth. Endo. Gland	2	4	2	1	0	2	0	0	0	1	1	0	1	1	1	0	16	0.24
195	Ill Def. Sites	0	0	0	0	0	0	1	1	0	2	1	3	1	2	0	2	13	0.19
196	Sec. Lymph. Node	1	0	1	1	0	2	0	4	0	10	6	10	18	11	3	8	75	1.12
197	Sec. Res. Etc	0	0	0	1	2	1	6	9	10	30	23	35	32	19	19	23	210	3.14
198	Sec. Other	0	0	0	1	0	1	1	2	1	6	4	5	12	8	5	5	51	0.76
199	Prim. Unknown	2	0	1	3	4	0	5	10	14	30	34	23	29	16	13	21	205	3.07
200	Lymphosarcoma	0	1	3	3	2	2	1	2	2	1	1	2	5	1	0	2	28	0.42
201	Hodgkins. Disease	3	7	4	4	4	5	5	6	8	6	4	5	0	5	1	3	70	1.05
202	Oth. Lymph. Node	3	7	12	8	11	12	9	7	13	20	17	19	21	10	10	11	190	2.84
203	Mult. Myeloma	0	0	0	0	0	1	0	0	3	5	4	8	9	10	8	5	53	0.79
204	Leuk. Lymphatic	21	23	15	12	6	8	4	3	3	1	1	4	1	2	5	2	111	1.66
205	Leuk. Myelocytic	3	5	1	9	15	9	10	11	11	9	13	5	5	11	6	2	125	1.87
206	Leuk. Monocytic	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0.03
207	Leuk. Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	Leuk. Unspecified	1	1	5	3	3	2	2	2	1	3	0	0	3	4	0	3	33	0.49
	All Sites	58	67	58	73	106	117	155	237	376	630	879	978	1048	813	540	545	6680	100.00

**TABLE: CHN-9(b): Number of Cancer Deaths by Five Year Age Group and Site (ICD-9)
1990-1996 - Females**

%= Relative Proportion of Cancers of All Sites.

Chennai

ICD-9	Site	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	>75	Total	%
140	Lip	0	0	0	0	0	0	0	0	0	0	4	3	1	0	3	2	13	0.22
141	Tongue	0	0	0	0	0	1	0	2	3	4	11	6	12	10	6	6	61	1.05
142	Salivary Gland	0	0	0	0	0	0	1	0	0	2	1	1	1	0	3	1	10	0.17
143	Gum	0	0	0	0	0	0	0	3	2	5	9	6	11	7	5	1	49	0.85
144	Floor of Mouth	0	0	0	0	0	0	0	0	0	0	2	2	1	2	0	0	7	0.12
145	Other Mouth	0	0	0	0	0	1	3	9	21	16	28	24	41	24	22	15	204	3.53
146	Oropharynx	0	0	0	0	1	0	0	1	0	4	2	2	2	3	2	1	18	0.31
147	Nasopharynx	0	0	1	1	2	0	0	1	2	1	3	1	0	2	0	0	14	0.24
148	Hypopharynx	0	0	1	0	2	2	5	7	12	15	14	15	9	6	6	2	96	1.66
149	Pharynx Etc.	0	0	0	0	0	1	0	1	1	1	0	3	4	3	0	2	16	0.28
150	Oesophagus	0	0	0	0	1	4	10	11	29	44	62	74	60	39	40	20	394	6.81
151	Stomach	0	0	0	1	3	9	10	23	30	57	67	58	57	54	27	35	431	7.45
152	Small Intestine	0	0	0	0	0	0	0	0	1	1	1	0	2	2	0	1	8	0.14
153	Colon	0	0	0	0	1	1	3	2	4	9	9	13	12	9	9	10	82	1.42
154	Rectum	0	0	0	0	3	7	0	6	3	12	15	11	20	14	13	7	111	1.92
155	Liver	4	1	0	0	1	0	1	1	4	3	9	4	3	7	7	2	47	0.81
156	Gall Bladder	0	0	0	0	0	0	0	0	1	8	4	4	6	4	6	6	39	0.67
157	Pancreas	0	0	0	0	0	0	0	3	4	1	5	6	5	8	7	3	42	0.73
158	Retroperitoneum	1	0	0	0	0	1	0	2	0	1	1	0	2	0	1	1	10	0.17
159	Other Dig System	0	0	0	0	0	1	0	0	1	0	0	0	2	0	2	1	7	0.12
160	Nasal Cavity	0	0	0	0	1	1	0	1	0	1	2	5	4	2	1	1	19	0.33
161	Larynx	0	0	0	0	0	1	0	0	3	0	3	5	7	6	4	0	29	0.50
162	Lung	0	0	0	0	0	0	2	9	13	8	21	16	29	19	10	5	132	2.28
163	Pleura	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0.03
164	Thymus	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	3	0.05
165	Other Resp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	Bone	0	3	4	5	5	0	1	0	3	2	1	0	3	0	2	0	29	0.50
171	Conn. Tissue	2	2	3	2	2	3	1	4	2	5	3	3	3	4	2	1	42	0.73
172	Skin Melanoma	0	0	0	0	0	0	0	0	0	2	1	1	2	0	2	3	11	0.19
173	Skin. Other	0	0	1	1	1	0	0	2	3	3	5	4	6	4	1	8	39	0.67
174	Breast	0	0	0	0	8	20	36	60	94	134	123	124	108	69	52	55	883	15.26
179	Uterus NOS.	0	0	0	0	0	1	0	0	1	4	8	1	2	7	2	4	30	0.52
180	Cervix	0	0	0	0	1	11	39	86	160	244	237	265	237	117	74	50	1521	26.29
181	Placenta	0	0	0	1	3	2	1	0	0	0	0	0	1	0	0	0	8	0.14
182	Body Uterus	0	0	0	0	0	2	0	2	6	2	12	10	10	12	7	5	68	1.18
183	Ovary	0	1	2	5	9	10	11	15	23	26	34	39	46	34	21	8	284	4.91
184	Vagina	0	0	0	0	0	2	1	2	8	6	6	3	14	6	13	5	66	1.14
188	Uri. Bladder	0	1	0	0	0	0	0	3	1	4	3	6	8	6	12	3	47	0.81
189	Kidney	3	0	0	0	1	0	0	3	0	0	4	3	3	6	1	1	25	0.43
190	Eye	4	2	0	0	0	0	0	0	0	1	0	1	1	0	0	0	9	0.16
191	Brain	7	8	2	3	4	7	7	6	5	9	6	14	5	4	2	3	92	1.59
192	Nervous System	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0	4	0.07
193	Thyroid Gland	0	0	0	0	0	0	1	2	1	3	8	6	6	7	3	6	43	0.74
194	Oth. Endo. Gland	2	0	0	2	0	0	0	0	1	0	1	0	1	0	0	1	8	0.14
195	Ill Def. Sites	1	1	0	0	0	0	1	0	0	2	0	2	3	0	1	2	13	0.22
196	Sec. Lymph. Node	0	0	0	1	1	2	1	1	3	2	5	5	7	4	1	4	37	0.64
197	Sec. Res. Etc	0	1	0	0	2	1	1	3	7	9	11	17	19	10	10	16	107	1.85
198	Sec. Other	0	0	0	1	1	2	0	2	4	7	9	4	3	1	1	1	36	0.62
199	Prim. Unknown	1	0	1	2	4	8	9	9	20	30	41	26	22	14	15	15	217	3.75
200	Lymphosarcoma	0	1	0	1	0	0	1	0	1	1	0	3	1	2	2	0	13	0.22
201	Hodgkins. Disease	0	2	0	0	7	0	1	0	0	2	1	2	3	1	0	1	20	0.35
202	Oth. Lymph. Node	0	3	7	2	5	8	6	4	8	10	2	7	7	9	9	3	90	1.56
203	Mult. Myeloma	0	0	0	0	0	0	0	1	1	3	2	3	3	3	5	4	25	0.43
204	Leuk. Lymphatic	12	6	7	4	6	0	3	2	2	1	0	3	3	2	3	3	57	0.99
205	Leuk. Myelocytic	1	7	5	10	8	4	5	4	8	8	9	7	6	8	1	2	93	1.61
206	Leuk. Monocytic	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0.03
207	Leuk. Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	Leuk. Unspecified	3	0	1	2	2	0	0	2	1	1	0	0	2	3	4	1	22	0.38
	All Sites	41	40	35	44	85	113	162	295	500	714	806	818	828	557	420	327	5785	100.00

TABLE: CHN-10(a):
Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) (with Standard Error(SE)) and
Truncated (35-64 Yrs) (TR) Mortality Rate per 100,000 population: 1990-1996 - Males
Chennai

ICD-9	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	>75	CR	AAR	SE	TR
140	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.3	0.0	1.0	0.8	0.0	0.0	0.1	0.1	0.0	0.2
141	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	1.8	4.5	8.5	11.7	11.5	18.4	14.4	7.6	2.0	2.8	0.2	5.7
142	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.3	0.2	0.0	0.3	2.5	0.0	0.0	0.1	0.1	0.0	0.2
143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.7	0.8	1.9	3.6	2.5	4.0	2.9	0.4	0.5	0.1	1.0
144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	1.0	1.9	1.5	0.8	1.2	1.8	0.3	0.4	0.1	0.9
145	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.5	1.3	2.9	6.5	8.7	10.0	17.2	15.6	12.9	1.8	2.5	0.2	4.4
146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	2.0	4.2	6.3	5.6	5.3	8.7	4.7	0.9	1.3	0.1	2.7
147	0.0	0.1	0.1	0.0	0.1	0.3	0.1	0.2	0.1	0.6	0.8	0.9	0.8	1.2	2.9	3.5	0.3	0.4	0.1	0.5
148	0.0	0.0	0.0	0.1	0.1	0.1	0.8	0.7	1.8	3.3	7.7	10.2	16.7	16.4	16.2	11.7	2.1	2.9	0.2	5.8
149	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.4	0.8	1.5	2.2	2.3	2.9	3.5	7.6	0.5	0.7	0.1	1.1
150	0.0	0.0	0.0	0.1	0.1	0.1	0.9	1.9	3.7	8.8	16.5	24.9	30.0	34.4	31.8	27.6	4.5	6.2	0.2	12.5
151	0.1	0.0	0.0	0.1	0.3	0.4	1.1	3.7	6.3	11.6	24.7	36.8	42.0	55.3	50.3	55.7	7.0	9.6	0.3	18.3
152	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.8	0.0	0.0	2.3	0.1	0.1	0.0	0.1
153	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.4	1.4	3.8	3.0	3.8	6.1	4.0	5.3	0.7	1.0	0.1	1.9
154	0.0	0.0	0.0	0.1	0.4	0.5	0.6	0.8	1.7	2.8	5.0	4.1	7.2	11.1	6.9	12.3	1.4	1.9	0.1	3.3
155	0.2	0.0	0.0	0.1	0.0	0.3	0.2	0.6	1.4	2.7	5.0	4.3	6.4	11.1	6.4	5.9	1.2	1.6	0.1	3.1
156	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.1	0.7	0.9	2.1	1.6	2.3	1.2	0.2	0.3	0.1	0.6
157	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.4	1.1	2.0	1.8	4.5	5.4	5.3	5.2	5.9	0.8	1.1	0.1	2.2
158	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	1.3	0.0	0.0	0.0	0.1	0.1	0.0	0.3
159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.5	0.8	0.0	0.6	0.0	0.1	0.0	0.1
160	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.3	1.2	0.4	0.8	2.5	2.3	2.3	0.3	0.3	0.1	0.5
161	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	1.6	3.5	5.7	11.5	12.3	14.3	11.0	8.8	1.7	2.4	0.2	5.0
162	0.0	0.0	0.1	0.1	0.1	0.5	0.8	1.4	4.8	11.9	18.7	29.2	39.0	48.3	32.4	18.2	5.3	7.3	0.3	15.3
163	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1
164	0.0	0.0	0.1	0.0	0.2	0.2	0.2	0.0	0.0	0.1	0.2	0.2	0.5	0.0	0.0	0.0	0.1	0.1	0.0	0.1
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.1	0.2	0.6	0.4	0.3	0.2	0.0	0.0	0.4	0.0	0.2	0.5	0.0	1.7	1.2	0.2	0.3	0.0	0.2
171	0.2	0.1	0.0	0.3	0.4	0.2	0.3	0.4	0.4	0.4	0.3	1.1	0.3	2.0	2.3	1.2	0.4	0.4	0.1	0.5
172	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.7	0.2	0.5	0.8	1.2	1.8	0.1	0.2	0.0	0.3
173	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.4	0.6	0.7	1.3	1.9	2.1	3.3	4.0	2.3	0.4	0.6	0.1	1.1
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.5	0.0	0.0	1.2	0.1	0.1	0.0	0.2
185	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.8	2.2	6.2	7.8	16.2	35.2	1.0	1.7	0.1	1.3
186	0.2	0.0	0.0	0.1	0.4	0.1	0.2	0.2	0.0	0.4	0.3	0.4	0.5	0.4	1.7	0.6	0.2	0.2	0.0	0.3
187	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.8	1.4	2.8	5.0	4.9	1.6	5.2	7.6	0.8	1.0	0.1	2.2
188	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.6	1.4	1.5	3.0	4.4	7.0	10.4	9.4	0.8	1.1	0.1	1.6
189	0.3	0.0	0.1	0.0	0.0	0.1	0.1	0.3	0.4	1.1	1.0	1.9	2.6	1.2	3.5	1.2	0.4	0.5	0.1	1.1
190	0.3	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.6	0.6	0.1	0.1	0.0	0.1
191	0.7	0.8	0.4	0.2	0.6	0.9	1.0	1.4	1.7	2.2	3.2	4.1	3.3	7.4	2.3	4.7	1.3	1.5	0.1	2.5
192	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
193	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.3	1.0	1.5	2.3	1.6	2.9	2.9	0.3	0.4	0.1	0.7
194	0.2	0.3	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.2	0.0	0.3	0.4	0.6	0.0	0.1	0.1	0.0	0.1
195	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.3	0.2	0.6	0.3	0.8	0.0	1.2	0.1	0.1	0.0	0.2
196	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.4	0.0	1.4	1.0	2.2	4.6	4.5	1.7	4.7	0.5	0.7	0.1	1.4
197	0.0	0.0	0.0	0.1	0.1	0.1	0.5	0.8	1.1	4.2	3.8	7.6	8.2	7.8	11.0	13.5	1.5	2.0	0.1	3.8
198	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.2	0.1	0.8	0.7	1.1	3.1	3.3	2.9	2.9	0.4	0.5	0.1	0.9
199	0.2	0.0	0.1	0.2	0.3	0.0	0.4	0.9	1.5	4.2	5.7	5.0	7.4	6.5	7.5	12.3	1.4	1.9	0.1	3.8
200	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.4	1.3	0.4	0.0	1.2	0.2	0.2	0.0	0.4
201	0.3	0.5	0.3	0.3	0.3	0.3	0.4	0.5	0.9	0.8	0.7	1.1	0.0	2.0	0.6	1.8	0.5	0.5	0.0	0.7
202	0.3	0.5	0.9	0.6	0.7	0.8	0.7	0.6	1.4	2.8	2.8	4.1	5.4	4.1	5.8	6.5	1.3	1.6	0.1	2.6
203	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.7	0.7	1.7	2.3	4.1	4.6	2.9	0.4	0.5	0.1	0.8
204	1.8	1.7	1.1	0.8	0.4	0.5	0.3	0.3	0.3	0.1	0.2	0.9	0.3	0.8	2.9	1.2	0.8	0.9	0.1	0.3
205	0.3	0.4	0.1	0.6	0.9	0.6	0.8	1.0	1.2	1.3	2.2	1.1	1.3	4.5	3.5	1.2	0.9	0.9	0.1	1.3
206	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
207	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
208	0.1	0.1	0.4	0.2	0.2	0.1	0.2	0.2	0.1	0.4	0.0	0.0	0.8	1.6	0.0	1.8	0.2	0.3	0.0	0.2
All	5.4	5.1	4.3	5.3	7.1	7.8	12.8	21.3	40.0	87.7	146.9	211.5	269.1	332.7	312.2	319.9	46.3	62.1	0.8	114.5

TABLE: CHN-10(b):
Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) (with Standard Error(SE)) and
Truncated (35-64 Yrs) (TR) Mortality Rate per 100,000 population: 1990-1996 - Females
Chennai

ICD-9	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	>75	CR	AAR	SE	TR
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.3	0.0	1.8	1.1	0.1	0.1	0.0	0.3
141	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.4	0.6	2.1	1.4	3.2	4.1	3.6	3.2	0.5	0.6	0.1	1.2
142	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.2	0.2	0.3	0.0	1.8	0.5	0.1	0.1	0.0	0.2
143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.8	1.7	1.4	2.9	2.9	3.0	0.5	0.4	0.5	0.1	1.1
144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.3	0.8	0.0	0.0	0.1	0.1	0.0	0.2
145	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.9	2.8	2.5	5.4	5.8	11.0	9.9	13.1	8.1	1.5	2.1	0.1	4.2
146	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.6	0.4	0.5	0.5	1.2	1.2	0.5	0.1	0.2	0.0	0.3
147	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.3	0.2	0.6	0.2	0.0	0.8	0.0	0.0	0.1	0.1	0.0	0.2
148	0.0	0.0	0.1	0.0	0.1	0.1	0.5	0.7	1.6	2.4	2.7	3.6	2.4	2.5	3.6	1.1	0.7	0.9	0.1	2.1
149	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.2	0.0	0.7	1.1	1.2	0.0	1.1	0.1	0.2	0.0	0.3
150	0.0	0.0	0.0	0.0	0.1	0.3	0.9	1.1	3.9	6.9	12.0	17.8	16.0	16.1	23.9	10.8	2.9	3.9	0.2	8.6
151	0.0	0.0	0.0	0.1	0.2	0.6	0.9	2.3	4.0	9.0	13.0	13.9	15.2	22.3	16.1	18.8	3.2	4.2	0.2	8.8
152	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.0	0.5	0.8	0.0	0.5	0.1	0.1	0.0	0.2
153	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.2	0.5	1.4	1.7	3.1	3.2	3.7	5.4	5.4	0.6	0.8	0.1	1.5
154	0.0	0.0	0.0	0.0	0.2	0.5	0.0	0.6	0.4	1.9	2.9	2.6	5.3	5.8	7.8	3.8	0.8	1.1	0.1	2.1
155	0.4	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.5	0.5	1.7	1.0	0.8	2.9	4.2	1.1	0.3	0.5	0.1	0.7
156	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	0.8	1.0	1.6	1.6	3.6	3.2	0.3	0.4	0.1	0.7
157	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.2	1.0	1.4	1.3	3.3	4.2	1.6	0.3	0.4	0.1	0.7
158	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.2	0.2	0.0	0.5	0.0	0.6	0.5	0.1	0.1	0.0	0.2
159	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.5	0.0	1.2	0.5	0.1	0.1	0.0	0.1
160	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.2	0.4	1.2	1.1	0.8	0.6	0.5	0.1	0.2	0.0	0.4
161	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.0	0.6	1.2	1.9	2.5	2.4	0.0	0.2	0.3	0.0	0.6
162	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	1.7	1.3	4.1	3.8	7.8	7.8	6.0	2.7	1.0	1.3	0.1	2.9
163	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1
164	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.2	0.3	0.4	0.3	0.0	0.1	0.0	0.4	0.3	0.2	0.0	0.8	0.0	1.2	0.0	0.2	0.2	0.0	0.3
171	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.4	0.3	0.8	0.6	0.7	0.8	1.6	1.2	0.5	0.3	0.4	0.1	0.6
172	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.2	0.5	0.0	1.2	1.6	0.1	0.1	0.0	0.2
173	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.2	0.4	0.5	1.0	1.0	1.6	1.6	0.6	4.3	0.3	0.4	0.1	0.7
174	0.0	0.0	0.0	0.0	0.5	1.4	3.4	5.9	12.5	21.1	23.8	29.8	28.9	28.4	31.0	29.6	6.5	8.3	0.3	19.1
179	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.6	1.5	0.2	0.5	2.9	1.2	2.2	0.2	0.3	0.1	0.5
180	0.0	0.0	0.0	0.0	0.1	0.8	3.6	8.5	21.4	38.3	45.8	63.7	63.3	48.2	44.1	26.9	11.3	14.6	0.4	37.0
181	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0
182	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.8	0.3	2.3	2.4	2.7	4.9	4.2	2.7	0.5	0.7	0.1	1.3
183	0.0	0.1	0.1	0.4	0.6	0.7	1.0	1.5	3.1	4.1	6.6	9.4	12.3	14.0	12.5	4.3	2.1	2.7	0.2	5.5
184	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	1.1	0.9	1.2	0.7	3.7	2.5	7.8	2.7	0.5	0.7	0.1	1.2
188	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.6	0.6	1.4	2.1	2.5	7.2	1.6	0.3	0.5	0.1	0.8
189	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.8	0.7	0.8	2.5	0.6	0.5	0.2	0.3	0.0	0.4
190	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.3	0.0	0.0	0.0	0.1	0.1	0.0	0.1
191	0.6	0.6	0.1	0.2	0.3	0.5	0.7	0.6	0.7	1.4	1.2	3.4	1.3	1.6	1.2	1.6	0.7	0.8	0.1	1.3
192	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
193	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.5	1.5	1.4	1.6	2.9	1.8	3.2	0.3	0.4	0.1	0.8
194	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.3	0.0	0.0	0.5	0.1	0.1	0.0	0.1
195	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.5	0.8	0.0	0.6	1.1	0.1	0.1	0.0	0.2
196	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.4	0.3	1.0	1.2	1.9	1.6	0.6	2.2	0.3	0.4	0.1	0.7
197	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.3	0.9	1.4	2.1	4.1	5.1	4.1	6.0	8.6	0.8	1.1	0.1	2.0
198	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.2	0.5	1.1	1.7	1.0	0.8	0.4	0.6	0.5	0.3	0.3	0.1	0.9
199	0.1	0.0	0.1	0.1	0.3	0.6	0.8	0.9	2.7	4.7	7.9	6.3	5.9	5.8	8.9	8.1	1.6	2.0	0.1	4.4
200	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.2	0.0	0.7	0.3	0.8	1.2	0.0	0.1	0.1	0.0	0.2
201	0.0	0.2	0.0	0.0	0.5	0.0	0.1	0.0	0.0	0.3	0.2	0.5	0.8	0.4	0.0	0.5	0.1	0.2	0.0	0.3
202	0.0	0.2	0.5	0.1	0.3	0.6	0.6	0.4	1.1	1.6	0.4	1.7	1.9	3.7	5.4	1.6	0.7	0.8	0.1	1.1
203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5	0.4	0.7	0.8	1.2	3.0	2.2	0.2	0.3	0.1	0.4
204	1.1	0.5	0.5	0.3	0.4	0.0	0.3	0.2	0.3	0.2	0.0	0.7	0.8	0.8	1.8	1.6	0.4	0.5	0.0	0.3
205	0.1	0.5	0.4	0.7	0.5	0.3	0.5	0.4	1.1	1.3	1.7	1.7	1.6	3.3	0.6	1.1	0.7	0.8	0.1	1.2
206	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1
207	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
208	0.3	0.0	0.1	0.1	0.1	0.0	0.0	0.2	0.1	0.2	0.0	0.0	0.5	1.2	2.4	0.5	0.2	0.2	0.0	0.2
All	3.9	3.3	2.6	3.2	5.8	8.1	15.3	29.3	66.4	112.7	156.0	196.3	221.3	229.1	251.0	175.7	43.0	55.7	0.8	119.6

**TABLE: CHN-11: Number (#) and Proportion (%) of Types of Childhood Cancers 1990-1996
Chennai**

Type of Childhood Cancer	Males		Females	
	#	%	#	%
I. LEUKAEMIAS	184	37.47	87	28.81
(a) Acute lymphocytic leukaemia	148	30.14	65	21.52
(b) Other lymphoid leukaemia	0	0	0	0
(c) Acute non-lymphocytic leukaemia	21	4.28	17	5.63
(d) Chronic myeloid leukaemia	1	0.2	1	0.33
(e) Other and unspecified leukaemia	14	2.85	4	1.32
II. LYMPHOMAS & OTHER RETICULOENDOTHELIAL	123	25.05	48	15.89
(a) Hodgkin's disease	58	11.81	22	7.28
(b) Non-Hodgkin lymphoma	52	10.59	18	5.96
(c) Burkitt's lymphoma	5	1.02	3	0.99
(d) Unspecified lymphomas	8	1.63	5	1.66
(e) Histiocytosis X	0	0	0	0
(f) Other reticuloendothelial neoplasms	0	0	0	0
III. C.N.S.& MISC.INTRACRANIAL & INTRASPINAL NEOP.	50	10.18	38	12.58
(a) Ependymoma	2	0.41	3	0.99
(b) Astrocytoma	18	3.67	23	7.62
(c) Medulloblastoma	16	3.26	6	1.99
(d) Other glioma	6	1.22	2	0.66
(e) Misc.intracranial & intraspinal neop.	8	1.63	4	1.32
IV. SYMPATHETIC NERVOUS SYSTEM TUMOURS	13	2.65	15	4.97
(a) Neuroblastoma & ganglioneuroblastoma	12	2.44	15	4.97
(b) Other	1	0.2	0	0
V. RETINOBLASTOMA	24	4.89	26	8.61
VI. RENAL TUMOURS	20	4.07	13	4.3
(a) Wilms' tumour	17	3.46	11	3.64
(b) Renal carcinoma	2	0.41	0	0
(c) Other & unsp. malignant renal tumours	1	0.2	2	0.66
VII. HEPATIC TUMOURS	8	1.63	8	2.65
(a) Hepatoblastoma	7	1.43	6	1.99
(b) Hepatic carcinoma	0	0	0	0
(c) Other & unsp. malignant hepatic tumours	1	0.2	2	0.66
VIII. MALIGNANT BONE TUMOURS	13	2.65	14	4.64
(a) Osteosarcoma	4	0.81	8	2.65
(b) Chondrosarcoma	1	0.2	0	0
(c) Ewing's sarcoma	5	1.02	5	1.66
(d) Other & unsp. malignant bone tumours	3	0.61	1	0.33
IX. SOFT-TISSUE(S-T) SARCOMAS(S)	20	4.07	16	5.3
(a) Rhabdomyos. embryonals.& s-t.Ewings tum.	12	2.44	12	3.97
(b) Fibros.neurofibros.&oth.fibromatous neop.	1	0.2	2	0.66
(c) Other soft-tissue sarcoma	7	1.43	2	0.66
X. GERM-CELL TROPHOBLASTIC & OTH GONADAL NEOP.	13	2.65	18	5.96
(a) Non-gonadal gc & trophoblastic neop.	7	1.43	4	1.32
(b) Gonadal gc & trophoblastic neop.	5	1.02	11	3.64
(c) Gonadal carcinoma	0	0	0	0
(d) Other & unsp.malignant gonadal tumours	1	0.2	3	0.99
XI. CARCINOMA & OTH MALIGNANT EPITHELIAL NEOP.	16	3.26	11	3.64
(a) Adrenocortical carcinoma	0	0	0	0
(b) Thyroid carcinoma	0	0	0	0
(c) Nasopharyngeal carcinoma	5	1.02	0	0
(d) Malanomatous neoplasms	3	0.61	0	0
(e) Other carcinoma	8	1.63	11	3.64
XII. OTHER & UNSP. MALIGNANT NEOPLASMS	5	1.02	8	2.65
OTHERS (Not Classified)	2	0.41	0	0
TOTAL (ALL CHILDHOOD CANCERS)	491	100	302	100