

## POPULATION BASED CANCER REGISTRY, CHENNAI

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The Madras Metropolitan Tumour Registry (MMTR), a Population Based Cancer Registry, was established at the Cancer Institute (W.I.A) in 1981 in the network of National Cancer Registry Programme (NCRP) of Indian Council of Medical Research (ICMR), New Delhi, to study the pattern and trend of Cancer incidence and mortality in Chennai City (formerly Madras). The data collection commenced from 1st January 1982.

The Chennai city is situated at sea level on the eastern coast of peninsular India at latitude 13.04° N and longitude 80.17°E. The MMTR caters to an area of 170 km<sup>2</sup> and a population (entirely urban) of 4.2 millions (951 Females to 1000 Males) as on 1st March 2001 constituting 0.4% and 6.8% of total population of India and state of Tamil Nadu respectively. The decadal population growth rate during 1991-2001 was 9.76% and the population density was estimated to be 24,231 persons/km<sup>2</sup>. The literacy rate is 80% (M: 85%; F: 75%) and the predominantly spoken language is Tamil. The majority are Hindus (84%) followed by Muslims (9%), Christians (6%) and the rest belonging to the other religious groups (1%).

General health care, including cancer diagnostic and treatment facilities, are provided by the government health services, the Cancer Institute (WIA), which is a Regional Cancer Centre recognised by the Ministry of Health and Family Welfare, Government of India and supplemented by private practitioners and hospitals. The Radiation Oncology division at the Cancer Institute (WIA), is one of the best equipped centres in India. Radiation facilities are also available in four Government and four private hospitals. Surgical and Chemotherapeutic services are offered in government and private hospitals and nursing homes.

Cancer is not a notifiable disease in India. Therefore registration of cases is done by active method. The registry continues to enjoy good cooperation from all health care facilities in and around Chennai with more than 200 sources of registration till date: government and private hospitals, nursing homes, clinics, consultants, pathology laboratories, imaging centres and hospices. The principal criterion for the 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. The Social Scientists of the registry visit the collaborating hospitals regularly and collect data on cancer by interviewing the cases wherever possible and/or from medical records. Deficient medical records are updated by the linkage of data collected from various departments within a hospital for completeness of details. 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 completeness of registration of cancer

cases in MMTR is estimated to be 96%. Management of data has been progressively computerized to minimize the manual work resulting in the enhancement of data quality. Reliability of data and quality of registration are constantly monitored with emphasis on re-abstraction and coding on a random sample of cases and validity checks using IARC and other in-house developed computer programs.

The MMTR, has been the first among the registries 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 achievements based on such activities are plentiful. Survival analysis of the top ten cancers was first made available by MMTR among all other registries in NCRP. The availability of mortality information of incident cancer cases was “doubled” leading to an enhancement in the mortality to incidence ratio. The dissemination of cancer information is done by publishing periodic reports on cancer incidence and mortality highlighting the trends and patterns. A descriptive study of the pattern of common cancers among both genders in India supplemented by the risk estimates with respect to age and religion for Chennai, special studies giving the significant features of survival and mortality data have been published in international scientific journals and monograph.

MMTR also provides data on non-residents for the ICMR project on “Development of an Atlas of Cancer in India” and follow up for the IARC project on survival from top ten cancers in Chennai. A WHO project on “Awareness and early detection of cancers of cervix, breast and oral cavity” is also underway.

#### *Staff of Population Based Cancer Registry, Chennai*

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**FIGURE CHN-1:**  
**Population Pyramid showing Age Distribution : 1997-98**

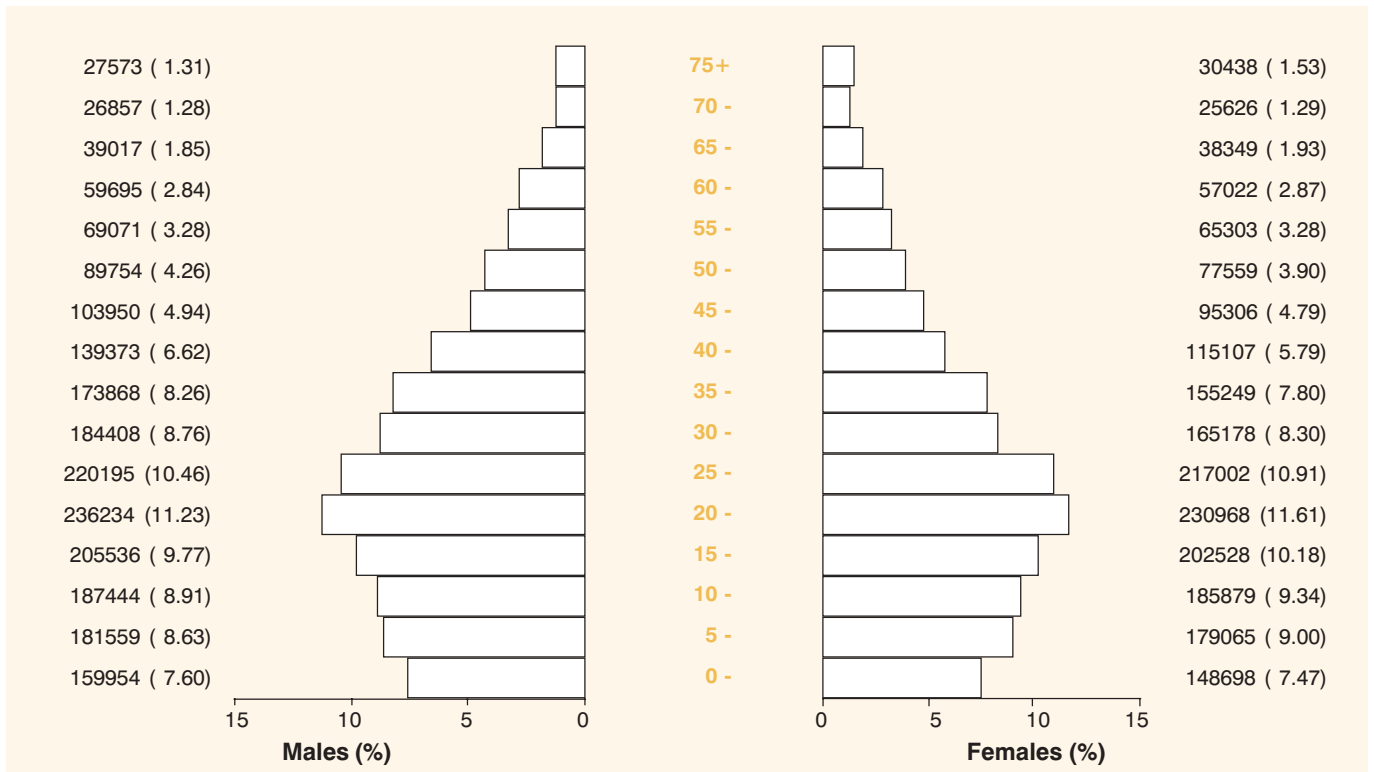


TABLE CHN-1:

## Main Sources\* of Registration of Incident Cases of Cancer in Chennai - 1997-1998

Name of the Institution	Number	%
Cancer Institute (WIA)	1382	18.0
Govt. General Hospital	1220	15.9
Apollo Hospital	671	8.7
Govt. Stanley Hospital	639	8.3
Dr. Rai's	583	7.6
Govt. Royapettah Hospital	489	6.4
Govt. Women & Child Hospital	371	4.8
Corporation of Chennai	224	2.9
Govt. Kilpauk MC	141	1.8
S. Rly. Hospital	127	1.7
Peripheral Hospital	116	1.5
Sundaram Medical Foundation	102	1.3
St. Isabel's Hospital	94	1.2
Govt. R.S.R.M. Hospital	91	1.2
Govt. Kasturba G.H.	89	1.2
VHS	88	1.1
Vijaya Hospital	75	1.0
C. Ramana Surgicals	74	1.0
All Others	1104	14.4
<b>Total All Sources</b>	<b>7678</b>	<b>100.0</b>

\* 1. Institutions listed have registered at least one percent of all cases in the registry for the combined years 1997-98.

\* 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-2(a): Number of Incident Cancers by Five Year Age Group and Site (ICD-9):  
1997-1998 – 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	0	1	1	1	3	2	1	0	0	0	10	0.27
141	Tongue	0	0	0	0	0	0	3	5	13	22	32	39	26	22	19	11	192	5.26
142	Salivary Gland	0	0	0	0	1	1	1	2	0	3	3	1	7	2	0	0	21	0.58
143	Gum	0	0	0	0	0	0	0	1	1	3	1	5	3	4	6	5	29	0.79
144	Floor of Mouth	0	0	0	0	0	0	2	1	2	4	7	2	3	1	1	1	24	0.66
145	Other Mouth	0	0	0	0	0	0	4	3	10	12	17	22	26	25	10	8	137	3.75
146	Oropharynx	0	0	0	0	0	0	0	1	6	6	19	7	11	14	11	5	80	2.19
147	Nasopharynx	0	0	1	1	2	1	0	1	2	8	4	4	4	3	0	1	32	0.88
148	Hypopharynx	0	0	1	0	0	2	1	6	6	19	31	30	27	20	9	15	167	4.57
149	Pharynx Etc.	0	0	0	0	0	0	0	2	2	4	1	2	1	3	1	2	18	0.49
150	Oesophagus	0	0	0	0	1	1	5	5	14	26	50	44	56	43	32	18	295	8.08
151	Stomach	0	0	0	0	0	1	12	16	32	44	46	71	75	53	51	25	426	11.66
152	Small Intestine	0	0	0	1	1	1	0	0	0	1	0	1	0	0	0	0	5	0.14
153	Colon	0	0	0	0	2	1	1	2	3	6	5	11	8	6	7	6	58	1.59
154	Rectum	0	0	0	2	3	6	5	4	8	9	11	20	15	20	13	11	127	3.48
155	Liver	0	0	0	0	0	1	2	4	8	11	10	18	15	17	10	6	102	2.79
156	Gall Bladder	0	0	0	0	0	0	0	1	3	3	1	0	4	5	8	5	30	0.82
157	Pancreas	0	0	0	0	0	0	2	3	2	6	9	6	7	6	6	8	55	1.51
158	Retroperitoneum	0	0	0	0	0	1	1	1	1	0	0	2	1	0	1	1	9	0.25
159	Other Dig Sys	0	0	0	0	0	0	0	1	0	1	0	0	1	1	1	0	5	0.14
160	Nasal Cavity	1	0	0	0	0	1	0	1	3	4	1	3	4	6	3	4	31	0.85
161	Larynx	0	0	0	0	1	0	1	3	13	12	20	25	34	19	20	17	165	4.52
162	Lung	0	0	0	0	2	0	8	15	13	44	58	64	70	55	19	22	370	10.13
163	Pleura	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0.05
164	Thymus	1	0	0	0	0	0	0	1	1	1	3	0	0	1	0	0	8	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	0	2	4	7	5	3	5	5	0	4	2	4	2	0	1	2	46	1.26
171	Conn Tissue	0	0	2	4	1	4	4	3	4	6	4	4	3	1	1	2	43	1.18
172	Skin Melanoma	0	0	0	0	0	0	1	0	0	2	2	0	0	1	1	0	7	0.19
173	Skin Other	0	0	3	0	0	0	1	1	3	3	5	7	5	7	8	7	50	1.37
175	Breast Male	0	0	0	0	0	0	0	0	0	1	1	1	2	0	1	1	7	0.19
185	Prostate	0	0	0	0	0	0	0	0	0	2	2	10	22	21	27	63	147	4.03
186	Testis	0	0	0	0	3	5	5	8	1	2	2	0	0	0	2	1	29	0.79
187	Penis etc.	0	0	0	0	1	2	2	1	3	4	8	12	7	9	3	4	56	1.53
188	Uri Bladder	0	0	0	0	0	0	0	2	3	3	6	7	12	16	13	22	84	2.30
189	Kidney	4	1	0	0	0	0	2	1	2	6	3	6	6	5	7	6	49	1.34
190	Eye	9	0	1	0	0	2	1	0	0	0	0	0	1	0	0	0	14	0.38
191	Brain	3	7	6	6	5	11	5	13	8	9	13	7	10	9	3	0	115	3.15
192	Nervous Sys	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
193	Thyroid Gland	0	0	0	0	3	0	2	3	3	6	7	6	5	4	3	3	45	1.23
194	Oth Endo Gland	1	0	0	2	1	0	1	1	0	0	0	0	0	1	0	0	7	0.19
195	Ill Def Sites	1	0	0	0	0	0	1	1	0	0	1	2	2	1	2	0	11	0.30
196	Sec Lymph Node	0	0	0	1	0	0	2	2	5	7	8	7	14	7	5	5	63	1.73
197	Sec Res Etc	0	0	0	0	1	0	1	5	4	8	16	15	14	9	9	5	87	2.38
198	Sec Other	0	0	0	0	0	0	0	1	3	4	0	5	3	2	3	4	25	0.68
199	Primary Unk	0	0	0	1	0	0	3	3	1	3	1	2	3	3	2	6	28	0.77
200	Lymphosarcoma	0	1	0	0	1	0	1	1	2	1	3	1	0	2	1	1	15	0.41
201	Hodgkins Dis	0	4	5	3	4	3	1	5	3	2	0	1	1	1	0	1	34	0.93
202	Oth Lymph Node	4	8	2	2	3	4	5	16	10	10	13	13	15	14	3	3	125	3.42
203	Mult Myeloma	0	0	0	0	0	0	0	0	2	2	5	7	2	2	3	2	25	0.68
204	Leuk Lymphatic	9	12	12	7	3	2	2	2	3	1	1	2	0	5	0	0	61	1.67
205	Leuk Myelocytic	0	1	3	6	3	4	7	9	4	4	2	4	4	8	2	1	62	1.70
206	Leuk Monocytic	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	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 Uns	4	1	0	2	1	1	0	1	1	1	1	0	0	3	1	1	18	0.49
	<b>TOTAL</b>	<b>37</b>	<b>37</b>	<b>40</b>	<b>45</b>	<b>49</b>	<b>58</b>	<b>100</b>	<b>164</b>	<b>209</b>	<b>341</b>	<b>436</b>	<b>504</b>	<b>533</b>	<b>458</b>	<b>330</b>	<b>311</b>	<b>3652</b>	
	<b>%</b>	<b>1.0</b>	<b>1.0</b>	<b>1.1</b>	<b>1.2</b>	<b>1.3</b>	<b>1.5</b>	<b>2.7</b>	<b>4.4</b>	<b>5.7</b>	<b>9.3</b>	<b>11.9</b>	<b>13.8</b>	<b>14.5</b>	<b>12.5</b>	<b>9.0</b>	<b>8.5</b>	<b>100.0</b>	

**TABLE CHN-2(b): Number of Incident Cancers by Five Year Age Group and Site (ICD-9):  
1997-1998 – 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	3	0	0	0	0	4	0	7	0.17
141	Tongue	0	0	0	0	0	0	1	1	5	8	9	5	6	10	4	3	52	1.29
142	Salivary Gland	0	0	0	0	1	1	0	1	1	2	2	0	1	0	1	0	10	0.25
143	Gum	0	0	0	0	0	0	0	1	2	2	5	7	6	2	4	3	32	0.79
144	Floor of Mouth	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0.05
145	Other Mouth	0	0	0	0	1	0	0	7	10	11	17	17	18	26	16	9	132	3.28
146	Oropharynx	0	0	0	0	0	0	0	1	1	1	2	3	2	2	2	2	16	0.40
147	Nasopharynx	0	0	2	0	1	0	2	1	1	1	1	0	1	1	0	1	12	0.30
148	Hypopharynx	0	0	0	0	1	1	3	3	3	7	10	11	6	1	8	5	59	1.47
149	Pharynx Etc	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	3	0.07
150	Oesophagus	0	0	0	0	3	1	5	2	16	24	29	38	23	23	14	17	195	4.84
151	Stomach	0	0	0	1	4	3	12	16	16	18	41	28	35	26	15	10	225	5.59
152	Small Intestine	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	3	0.07
153	Colon	0	0	0	1	0	3	1	4	9	8	7	5	11	7	6	8	70	1.74
154	Rectum	0	0	1	1	2	1	1	10	10	8	6	10	13	14	12	8	97	2.41
155	Liver	0	0	0	0	1	0	1	2	1	3	3	2	7	2	2	3	27	0.67
156	Gall Bladder	0	0	0	0	0	0	0	2	1	3	2	4	4	4	4	2	26	0.65
157	Pancreas	0	0	0	0	0	0	1	1	1	5	1	4	8	4	3	0	28	0.70
158	Retroperitoneum	1	0	0	0	0	0	1	0	0	0	0	1	1	2	0	0	6	0.15
159	Other Dig Sys	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.02
160	Nasal Cavity	0	0	0	0	0	0	1	0	2	1	2	2	2	6	0	0	16	0.40
161	Larynx	0	0	0	0	0	0	0	2	3	2	3	4	3	1	2	0	20	0.50
162	Lung	0	0	0	0	1	2	2	4	5	7	8	10	13	9	8	4	73	1.81
163	Pleura	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
164	Thymus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	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	0	3	6	3	5	0	2	1	1	1	1	1	2	0	1	27	0.67
171	Conn Tissue	3	0	1	2	5	3	0	0	3	4	0	3	6	2	3	1	36	0.89
172	Skin Melanoma	0	0	1	0	0	1	1	2	0	0	4	1	4	1	0	1	16	0.40
173	Skin Other	0	0	0	0	0	0	0	3	0	3	2	4	6	4	3	5	30	0.75
174	Breast Female	0	0	0	1	2	20	44	79	100	134	103	114	95	84	55	47	878	21.81
179	Uterine Un	0	0	0	0	0	1	0	1	3	3	3	3	1	1	3	1	20	0.50
180	Cervix Uteri	0	0	0	0	2	11	32	66	118	152	155	120	162	85	37	39	979	24.32
181	Placenta	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	3	0.07
182	Body Uterus	0	0	0	0	0	0	0	1	8	6	16	12	16	14	7	9	89	2.21
183	Ovary	0	0	4	5	7	6	15	18	11	31	29	22	22	17	11	10	208	5.17
184	Vagina	0	0	0	0	0	1	1	2	0	8	9	5	7	5	3	5	46	1.14
188	Uri Bladder	0	0	0	0	0	1	0	1	3	3	1	2	3	6	9	8	37	0.92
189	Kidney	8	1	0	0	0	2	0	1	1	3	1	4	0	4	2	2	29	0.72
190	Eye	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	8	0.20
191	Brain	1	6	3	5	5	8	2	7	5	10	4	5	8	3	4	0	76	1.89
192	Nervous System	0	0	0	0	0	0	0	1	0	1	1	2	0	1	0	0	6	0.15
193	Thyroid Gland	0	0	2	0	3	7	8	4	7	9	4	7	8	1	4	2	66	1.64
194	Oth Endo Gland	3	4	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9	0.22
195	Ill Def Sites	1	0	0	0	1	0	1	0	0	1	2	1	1	1	1	1	11	0.27
196	Sec Lymph Node	0	0	0	0	1	1	0	2	2	2	6	5	3	0	2	2	26	0.65
197	Sec Res Etc	0	0	0	1	1	0	0	5	4	2	8	7	11	6	3	0	48	1.19
198	Sec Other	0	0	0	0	0	0	0	0	0	0	4	1	2	5	3	1	16	0.40
199	Primary Unk	0	0	0	0	1	1	1	1	1	2	3	4	2	2	5	1	24	0.60
200	Lymphosarcoma	1	1	0	0	1	2	0	0	2	1	3	2	0	0	2	2	17	0.42
201	Hodgkins Dis	0	1	1	2	3	1	0	1	1	0	1	1	1	0	0	1	14	0.35
202	Oth Lymphoma	1	1	3	3	4	1	4	5	3	6	7	11	9	9	4	4	75	1.86
203	Mult Myeloma	0	0	0	0	0	0	0	0	3	0	2	3	5	5	2	2	22	0.55
204	Leuk Lymphatic	9	10	2	3	1	1	1	1	1	1	0	1	1	2	0	0	34	0.84
205	Leuk Myelocytic	0	2	2	6	2	6	7	1	4	3	0	3	6	1	2	3	48	1.19
206	Leuk Monocytic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
207	Leuk Misc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	Leuk Uns	1	1	1	1	1	0	0	0	2	1	1	1	0	1	1	2	14	0.35
	<b>TOTAL</b>	<b>36</b>	<b>27</b>	<b>27</b>	<b>38</b>	<b>60</b>	<b>91</b>	<b>149</b>	<b>262</b>	<b>371</b>	<b>502</b>	<b>520</b>	<b>496</b>	<b>543</b>	<b>402</b>	<b>273</b>	<b>229</b>	<b>4026</b>	
	<b>%</b>	<b>0.8</b>	<b>0.6</b>	<b>0.6</b>	<b>0.9</b>	<b>1.4</b>	<b>2.2</b>	<b>3.7</b>	<b>6.5</b>	<b>9.2</b>	<b>12.4</b>	<b>12.9</b>	<b>12.3</b>	<b>13.4</b>	<b>9.9</b>	<b>6.7</b>	<b>5.6</b>	<b>100.0</b>	

**TABLE CHN-3(a):**  
**Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) (with Standard Error (SE)) and**  
**Truncated (35-64 Yrs) (TR) Incidence Rate per 100,000 population: 1997-1998 - 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	0.0	0.3	0.4	0.5	0.6	2.2	1.7	1.3	0.0	0.0	0.24	<b>0.30</b>	0.09	0.84
141	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.4	4.7	10.6	17.8	28.2	21.8	28.2	35.4	19.9	4.56	<b>5.90</b>	0.43	12.55
142	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.6	0.0	1.4	1.7	0.7	5.9	2.6	0.0	0.0	0.50	<b>0.62</b>	0.13	1.51
143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	1.4	0.6	3.6	2.5	5.1	11.2	9.1	0.69	<b>0.94</b>	0.18	1.29
144	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.7	1.9	3.9	1.4	2.5	1.3	1.9	1.8	0.57	<b>0.68</b>	0.14	1.70
145	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	3.6	5.8	9.5	15.9	21.8	32.0	18.6	14.5	3.25	<b>4.30</b>	0.37	8.38
146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.2	2.9	10.6	5.1	9.2	17.9	20.5	9.1	1.90	<b>2.55</b>	0.29	4.61
147	0.0	0.0	0.3	0.2	0.4	0.2	0.0	0.3	0.7	3.8	2.2	2.9	3.4	3.8	0.0	1.8	0.76	<b>0.91</b>	0.16	2.10
148	0.0	0.0	0.3	0.0	0.0	0.5	0.3	1.7	2.2	9.1	17.3	21.7	22.6	25.6	16.8	27.2	3.97	<b>5.16</b>	0.40	11.03
149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	1.9	0.6	1.4	0.8	3.8	1.9	3.6	0.43	<b>0.53</b>	0.13	1.01
150	0.0	0.0	0.0	0.0	0.2	0.2	1.4	1.4	5.0	12.5	27.9	31.9	46.9	55.1	59.6	32.6	7.01	<b>9.30</b>	0.55	18.33
151	0.0	0.0	0.0	0.0	0.0	0.2	3.3	4.6	11.5	21.2	25.6	51.4	62.8	67.9	94.9	45.3	10.12	<b>13.16</b>	0.65	26.08
152	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.5	0.0	0.7	0.0	0.0	0.0	0.0	0.12	<b>0.12</b>	0.05	0.19
153	0.0	0.0	0.0	0.0	0.4	0.2	0.3	0.6	1.1	2.9	2.8	8.0	6.7	7.7	13.0	10.9	1.38	<b>1.79</b>	0.24	3.23
154	0.0	0.0	0.0	0.5	0.6	1.4	1.4	1.2	2.9	4.3	6.1	14.5	12.6	25.6	24.2	19.9	3.02	<b>3.83</b>	0.35	6.10
155	0.0	0.0	0.0	0.0	0.0	0.2	0.5	1.2	2.9	5.3	5.6	13.0	12.6	21.8	18.6	10.9	2.42	<b>3.15</b>	0.32	6.03
156	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	1.4	0.6	0.0	3.4	6.4	14.9	9.1	0.71	<b>1.01</b>	0.19	1.08
157	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.7	2.9	5.0	4.3	5.9	7.7	11.2	14.5	1.31	<b>1.69</b>	0.23	2.99
158	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.4	0.0	0.0	1.4	0.8	0.0	1.9	1.8	0.21	<b>0.25</b>	0.08	0.42
159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.5	0.0	0.0	0.8	1.3	1.9	0.0	0.12	<b>0.16</b>	0.07	0.26
160	0.3	0.0	0.0	0.0	0.0	0.2	0.0	0.3	1.1	1.9	0.6	2.2	3.4	7.7	5.6	7.3	0.74	<b>1.04</b>	0.18	1.46
161	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.9	4.7	5.8	11.1	18.1	28.5	24.3	37.2	30.8	3.92	<b>5.23</b>	0.41	10.01
162	0.0	0.0	0.0	0.0	0.4	0.0	2.2	4.3	4.7	21.2	32.3	46.3	58.6	70.5	35.4	39.9	8.79	<b>11.41</b>	0.60	24.58
163	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.9	0.0	0.05	<b>0.07</b>	0.05	0.09
164	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.5	1.7	0.0	0.0	1.3	0.0	0.0	0.19	<b>0.27</b>	0.08	0.51
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	0.00	<b>0.00</b>	0.00	0.00
170	0.0	0.6	1.1	1.7	1.1	0.7	1.4	1.4	0.0	1.9	1.1	2.9	1.7	0.0	1.9	3.6	1.09	<b>1.03</b>	0.16	1.41
171	0.0	0.0	0.5	1.0	0.2	0.9	1.1	0.9	1.4	2.9	2.2	2.9	2.5	1.3	1.9	3.6	1.02	<b>1.08</b>	0.17	2.04
172	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	1.0	1.1	0.0	0.0	1.3	1.9	0.0	0.17	<b>0.22</b>	0.08	0.37
173	0.0	0.0	0.8	0.0	0.0	0.0	0.3	0.3	1.1	1.4	2.8	5.1	4.2	9.0	14.9	12.7	1.19	<b>1.59</b>	0.23	2.19
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.7	1.7	0.0	1.9	1.8	0.17	<b>0.24</b>	0.09	0.51
185	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	7.2	18.4	26.9	50.3	114.2	3.49	<b>5.25</b>	0.43	3.67
186	0.0	0.0	0.0	0.0	0.6	1.1	1.4	2.3	0.4	1.0	1.1	0.0	0.0	0.0	3.7	1.8	0.69	<b>0.61</b>	0.12	0.90
187	0.0	0.0	0.0	0.0	0.2	0.5	0.5	0.3	1.1	1.9	4.5	8.7	5.9	11.5	5.6	7.3	1.33	<b>1.72</b>	0.23	3.25
188	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	1.4	3.3	5.1	10.1	20.5	24.2	39.9	2.00	<b>2.86</b>	0.31	3.09
189	1.3	0.3	0.0	0.0	0.0	0.0	0.5	0.3	0.7	2.9	1.7	4.3	5.0	6.4	13.0	10.9	1.16	<b>1.68</b>	0.23	2.23
190	2.8	0.0	0.3	0.0	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.33	<b>0.74</b>	0.12	0.10
191	0.9	1.9	1.6	1.5	1.1	2.5	1.4	3.7	2.9	4.3	7.2	5.1	8.4	11.5	5.6	0.0	2.73	<b>2.86</b>	0.29	5.01
192	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	0.00	<b>0.00</b>	0.00	0.00
193	0.0	0.0	0.0	0.0	0.6	0.0	0.5	0.9	1.1	2.9	3.9	4.3	4.2	5.1	5.6	5.4	1.07	<b>1.28</b>	0.20	2.66
194	0.3	0.0	0.0	0.5	0.2	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.17	<b>0.22</b>	0.07	0.06
195	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.6	1.4	1.7	1.3	3.7	0.0	0.26	<b>0.38</b>	0.10	0.56
196	0.0	0.0	0.0	0.2	0.0	0.0	0.5	0.6	1.8	3.4	4.5	5.1	11.7	9.0	9.3	9.1	1.50	<b>1.94</b>	0.25	4.03
197	0.0	0.0	0.0	0.0	0.2	0.0	0.3	1.4	1.4	3.8	8.9	10.9	11.7	11.5	16.8	9.1	2.07	<b>2.66</b>	0.29	5.64
198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	1.9	0.0	3.6	2.5	2.6	5.6	7.3	0.59	<b>0.78</b>	0.16	1.42
199	0.0	0.0	0.0	0.2	0.0	0.0	0.8	0.9	0.4	1.4	0.6	1.4	2.5	3.8	3.7	10.9	0.67	<b>0.81</b>	0.16	1.12
200	0.0	0.3	0.0	0.0	0.2	0.0	0.3	0.3	0.7	0.5	1.7	0.7	0.0	2.6	1.9	1.8	0.36	<b>0.41</b>	0.11	0.66
201	0.0	1.1	1.3	0.7	0.8	0.7	0.3	1.4	1.1	1.0	0.0	0.7	0.8	1.3	0.0	1.8	0.81	<b>0.67</b>	0.14	0.86
202	1.3	2.2	0.5	0.5	0.6	0.9	1.4	4.6	3.6	4.8	7.2	9.4	12.6	17.9	5.6	5.4	2.97	<b>3.38</b>	0.32	6.52
203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.0	2.8	5.1	1.7	2.6	5.6	3.6	0.59	<b>0.77</b>	0.16	1.66
204	2.8	3.3	3.2	1.7	0.6	0.5	0.5	0.6	1.1	0.5	0.6	1.4	0.0	6.4	0.0	0.0	1.45	<b>1.60</b>	0.22	0.71
205	0.0	0.3	0.8	1.5	0.6	0.9	1.9	2.6	1.4	1.9	1.1	2.9	3.4	10.3	3.7	1.8	1.47	<b>1.53</b>	0.21	2.13
206	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	0.0	0.0	0.02	<b>0.02</b>	0.02	0.00
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	0.00	<b>0.00</b>	0.00	0.00
208	1.3	0.3	0.0	0.5	0.2	0.2	0.0	0.3	0.4	0.5	0.6	0.0	0.0	3.8	1.9	1.8	0.43	<b>0.67</b>	0.13	0.34
<b>All</b>	<b>11.6</b>	<b>10.3</b>	<b>10.7</b>	<b>10.9</b>	<b>10.0</b>	<b>13.1</b>	<b>27.5</b>	<b>47.6</b>	<b>75.6</b>	<b>164.0</b>	<b>243.3</b>	<b>364.5</b>	<b>446.7</b>	<b>586.8</b>	<b>614.9</b>	<b>563.8</b>	<b>86.7</b>	<b>111.3</b>	<b>1.88</b>	<b>199.5</b>

**TABLE CHN-3(b):**  
**Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) (with Standard Error (SE)) and**  
**Truncated (35-64 Yrs) (TR) Incidence Rate per 100,000 population: 1997-1998 - 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	1.6	0.0	0.0	0.0	0.0	7.8	0.0	0.18	<b>0.26</b>	0.10	0.31
141	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	2.2	4.2	5.8	3.8	5.3	13.0	7.8	4.9	1.31	<b>1.72</b>	0.24	3.41
142	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.3	0.4	1.0	1.3	0.0	0.9	0.0	2.0	0.0	0.25	<b>0.29</b>	0.09	0.66
143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9	1.0	3.2	5.4	5.3	2.6	7.8	4.9	0.80	<b>1.06</b>	0.19	2.32
144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	1.6	0.05	<b>0.06</b>	0.04	0.10
145	0.0	0.0	0.0	0.0	0.2	0.0	0.0	2.3	4.3	5.8	11.0	13.0	15.8	33.9	31.2	14.8	3.32	<b>4.41</b>	0.39	7.89
146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.5	1.3	2.3	1.8	2.6	3.9	3.3	0.40	<b>0.53</b>	0.13	0.98
147	0.0	0.0	0.5	0.0	0.2	0.0	0.6	0.3	0.4	0.5	0.6	0.0	0.9	1.3	0.0	1.6	0.30	<b>0.32</b>	0.09	0.46
148	0.0	0.0	0.0	0.0	0.2	0.2	0.9	1.0	1.3	3.7	6.4	8.4	5.3	1.3	15.6	8.2	1.48	<b>1.83</b>	0.24	3.95
149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.0	1.6	0.08	<b>0.11</b>	0.06	0.12
150	0.0	0.0	0.0	0.0	0.6	0.2	1.5	0.6	7.0	12.6	18.7	29.1	20.2	30.0	27.3	27.9	4.90	<b>6.30</b>	0.46	13.29
151	0.0	0.0	0.0	0.2	0.9	0.7	3.6	5.2	7.0	9.4	26.4	21.4	30.7	33.9	29.3	16.4	5.66	<b>7.01</b>	0.48	15.16
152	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.0	0.9	0.0	0.0	0.0	0.08	<b>0.10</b>	0.06	0.32
153	0.0	0.0	0.0	0.2	0.0	0.7	0.3	1.3	3.9	4.2	4.5	3.8	9.6	9.1	11.7	13.1	1.76	<b>2.18</b>	0.27	4.27
154	0.0	0.0	0.3	0.2	0.4	0.2	0.3	3.2	4.3	4.2	3.9	7.7	11.4	18.3	23.4	13.1	2.44	<b>3.07</b>	0.32	5.35
155	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.6	0.4	1.6	1.9	1.5	6.1	2.6	3.9	4.9	0.68	<b>0.86</b>	0.17	1.80
156	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.4	1.6	1.3	3.1	3.5	5.2	7.8	3.3	0.65	<b>0.88</b>	0.17	1.57
157	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.4	2.6	0.6	3.1	7.0	5.2	5.9	0.0	0.70	<b>0.93</b>	0.18	2.04
158	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.8	0.9	2.6	0.0	0.0	0.15	<b>0.24</b>	0.08	0.22
159	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	1.6	0.03	<b>0.03</b>	0.03	0.00
160	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.9	0.5	1.3	1.5	1.8	7.8	0.0	0.0	0.40	<b>0.53</b>	0.14	0.90
161	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.0	1.9	3.1	2.6	1.3	3.9	0.0	0.50	<b>0.62</b>	0.14	1.61
162	0.0	0.0	0.0	0.0	0.2	0.5	0.6	1.3	2.2	3.7	5.2	7.7	11.4	11.7	15.6	6.6	1.83	<b>2.35</b>	0.28	4.70
163	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	0.00	<b>0.00</b>	0.00	0.00
164	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.0	0.0	0.05	<b>0.08</b>	0.05	0.12
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	0.00	<b>0.00</b>	0.00	0.00
170	0.0	0.0	0.8	1.5	0.6	1.2	0.0	0.6	0.4	0.5	0.6	0.8	0.9	2.6	0.0	1.6	0.68	<b>0.66</b>	0.13	0.62
171	1.0	0.0	0.3	0.5	1.1	0.7	0.0	0.0	1.3	2.1	0.0	2.3	5.3	2.6	5.9	1.6	0.90	<b>1.19</b>	0.18	1.64
172	0.0	0.0	0.3	0.0	0.0	0.2	0.3	0.6	0.0	0.0	2.6	0.8	3.5	1.3	0.0	1.6	0.40	<b>0.48</b>	0.12	1.09
173	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.6	1.3	3.1	5.3	5.2	5.9	8.2	0.75	<b>1.00</b>	0.18	1.79	
174	0.0	0.0	0.0	0.2	0.4	4.6	13.3	25.4	43.4	70.3	66.4	87.3	83.3	109.5	107.3	77.2	22.07	<b>26.68</b>	0.92	59.65
179	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	1.3	1.6	1.9	2.3	0.9	1.3	5.9	1.6	0.50	<b>0.64</b>	0.14	1.35
180	0.0	0.0	0.0	0.0	0.4	2.5	9.7	21.3	51.3	79.7	99.9	91.9	142.1	110.8	72.2	64.1	24.61	<b>30.35</b>	0.99	75.79
181	0.0	0.0	0.0	0.0	0.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	<b>0.05</b>	0.03	0.00
182	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.5	3.1	10.3	9.2	14.0	18.3	13.7	14.8	2.24	<b>2.99</b>	0.32	6.00
183	0.0	0.0	1.1	1.2	1.5	1.4	4.5	5.8	4.8	16.3	18.7	16.8	19.3	22.2	21.5	16.4	5.23	<b>6.14</b>	0.44	12.88
184	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.6	0.0	4.2	5.8	3.8	6.1	6.5	5.9	8.2	1.16	<b>1.49</b>	0.22	3.15
188	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	1.3	1.6	0.6	1.5	2.6	7.8	17.6	13.1	0.93	<b>1.25</b>	0.21	1.25
189	2.7	0.3	0.0	0.0	0.0	0.5	0.0	0.3	0.4	1.6	0.6	3.1	0.0	5.2	3.9	3.3	0.73	<b>1.23</b>	0.19	0.95
190	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	<b>0.55</b>	0.11	0.08
191	0.3	1.7	0.8	1.2	1.1	1.8	0.6	2.3	2.2	5.2	2.6	3.8	7.0	3.9	7.8	0.0	1.91	<b>1.94</b>	0.25	3.70
192	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.5	0.6	1.5	0.0	1.3	0.0	0.0	0.15	<b>0.18</b>	0.07	0.45
193	0.0	0.0	0.5	0.0	0.6	1.6	2.4	1.3	3.0	4.7	2.6	5.4	7.0	1.3	7.8	3.3	1.66	<b>1.81</b>	0.23	3.76
194	1.0	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.23	<b>0.28</b>	0.10	0.00
195	0.3	0.0	0.0	0.0	0.2	0.0	0.3	0.0	0.0	0.5	1.3	0.8	0.9	1.3	2.0	1.6	0.28	<b>0.39</b>	0.11	0.53
196	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.6	0.9	1.0	3.9	3.8	2.6	0.0	3.9	3.3	0.65	<b>0.79</b>	0.16	1.94
197	0.0	0.0	0.0	0.2	0.2	0.0	0.0	1.6	1.7	1.0	5.2	5.4	9.6	7.8	5.9	0.0	1.21	<b>1.51</b>	0.22	3.61
198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.8	1.8	6.5	5.9	1.6	0.40	<b>0.58</b>	0.14	0.75
199	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.3	0.4	1.0	1.9	3.1	1.8	2.6	9.8	1.6	0.60	<b>0.76</b>	0.16	1.27
200	0.3	0.3	0.0	0.0	0.2	0.5	0.0	0.0	0.9	0.5	1.9	1.5	0.0	0.0	3.9	3.3	0.43	<b>0.52</b>	0.13	0.77
201	0.0	0.3	0.3	0.5	0.6	0.2	0.0	0.3	0.4	0.0	0.6	0.8	0.9	0.0	0.0	1.6	0.35	0.32	0.09	0.46
202	0.3	0.3	0.8	0.7	0.9	0.2	1.2	1.6	1.3	3.1	4.5	8.4	7.9	11.7	7.8	6.6	1.89	<b>2.26</b>	0.27	3.99
203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	2.3	4.4	6.5	3.9	3.3	0.55	<b>0.77</b>	0.16	1.33
204	3.0	2.8	0.5	0.7	0.2	0.2	0.3	0.3	0.4	0.5	0.0	0.8	0.9	2.6	0.0	0.0	0.85	<b>1.05</b>	0.18	0.46
205	0.0	0.6	0.5	1.5	0.4	1.4	2.1	0.3	1.7	1.6	0.0	2.3	5.3	1.3	3.9	4.9	1.21	<b>1.20</b>	0.19	1.68
206	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	0.00	<b>0.00</b>	0.00	0.00
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	0.00	<b>0.00</b>	0.00	0.00
208	0.3	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.9	0.5	0.6	0.8	0.0	1.3	2.0	3.3	0.35	<b>0.43</b>	0.11	0.47
<b>All</b>	<b>11.9</b>	<b>7.7</b>	<b>7.3</b>	<b>9.0</b>	<b>12.5</b>	<b>20.7</b>	<b>44.9</b>	<b>83.9</b>	<b>160.9</b>	<b>262.9</b>	<b>334.8</b>	<b>380.1</b>	<b>476.6</b>	<b>523.8</b>	<b>533.3</b>	<b>375.5</b>	<b>101.2</b>	<b>125.2</b>	<b>0.86</b>	<b>262.9</b>

**TABLE CHN-4(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) 1997-1998: Males - Chennai**

ICD-9	Site	0 - 64 Years		0 - 74 Years	
		Cu. Rate %	Cu. Risk	Cu. Rate%	Cu. Risk
140	Lip	0.04	0.03	0.04	0.03
141	Tongue	0.57	0.57	0.74	0.74
142	Salivary Gland	0.07	0.07	0.07	0.07
143	Gum	0.07	0.07	0.13	0.13
144	Floor of Mouth	0.06	0.06	0.07	0.07
145	Other Mouth	0.45	0.45	0.55	0.54
146	Oropharynx	0.24	0.24	0.34	0.34
147	Nasopharynx	0.09	0.09	0.09	0.09
148	Hypopharynx	0.51	0.51	0.59	0.59
149	Pharynx Etc.	0.05	0.05	0.06	0.06
150	Oesophagus	0.91	0.91	1.21	1.20
151	Stomach	1.24	1.23	1.72	1.70
152	Small Intestine	0.01	0.01	0.01	0.01
153	Colon	0.15	0.15	0.22	0.22
154	Rectum	0.36	0.35	0.48	0.48
155	Liver	0.32	0.32	0.41	0.41
156	Gall Bladder	0.07	0.07	0.14	0.14
157	Pancreas	0.14	0.14	0.20	0.20
158	Retroperitoneum	0.02	0.02	0.03	0.03
159	Other Dig Sys	0.01	0.01	0.02	0.02
160	Nasal Cavity	0.09	0.09	0.12	0.12
161	Larynx	0.47	0.47	0.66	0.65
162	Lung	1.20	1.20	1.38	1.37
163	Pleura	0.00	0.00	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	0.08	0.08	0.09	0.09
171	Conn Tissue	0.09	0.09	0.10	0.10
172	Skin Melanoma	0.02	0.02	0.03	0.03
173	Skin Other	0.13	0.12	0.20	0.20
175	Breast Male	0.02	0.02	0.03	0.03
185	Prostate	0.27	0.27	0.52	0.52
186	Testis	0.04	0.04	0.06	0.06
187	Penis Etc	0.18	0.18	0.20	0.20
188	Uri Bladder	0.21	0.21	0.33	0.33
189	Kidney	0.12	0.12	0.18	0.18
190	Eye	0.02	0.02	0.02	0.02
191	Brain	0.27	0.27	0.30	0.30
192	Nervous Sys	0.00	0.00	0.00	0.00
193	Thyroid Gland	0.12	0.12	0.15	0.15
194	Oth Endo Gland	0.01	0.01	0.01	0.01
195	Ill Def Sites	0.03	0.03	0.05	0.05
196	Sec Lymph Node	0.18	0.18	0.23	0.23
197	Sec Res Etc	0.25	0.25	0.33	0.33
198	Sec Other	0.06	0.06	0.09	0.09
199	Primary Unk	0.06	0.06	0.08	0.08
200	Lymphosarcoma	0.04	0.04	0.05	0.05
201	Hodgkins Dis	0.06	0.06	0.06	0.06
202	Oth Lymph Node	0.34	0.34	0.37	0.36
203	Mult Myeloma	0.07	0.07	0.10	0.10
204	Leuk Lymphatic	0.12	0.12	0.12	0.12
205	Leuk Myelocytic	0.15	0.15	0.17	0.17
206	Leuk Monocytic	0.00	0.00	0.00	0.00
207	Leuk Misc	0.00	0.00	0.00	0.00
208	Leuk Uns	0.04	0.04	0.05	0.05
	<b>ALL SITES</b>	<b>10.11</b>	<b>9.62</b>	<b>13.19</b>	<b>12.35</b>

**TABLE CHN-4(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) 1997-1998: Females - Chennai**

ICD-9	Site	0 - 64 Years		0 - 74 Years	
		Cu. Rate %	Cu. Risk	Cu. Rate%	Cu. Risk
140	Lip	0.01	0.01	0.05	0.05
141	Tongue	0.17	0.17	0.21	0.21
142	Salivary Gland	0.02	0.02	0.03	0.03
143	Gum	0.09	0.09	0.13	0.13
144	Floor of Mouth	0.00	0.00	0.00	0.00
145	Other Mouth	0.43	0.43	0.59	0.59
146	Oropharynx	0.05	0.05	0.07	0.07
147	Nasopharynx	0.03	0.03	0.03	0.03
148	Hypopharynx	0.14	0.14	0.22	0.22
149	Pharynx Etc	0.00	0.00	0.01	0.01
150	Oesophagus	0.60	0.60	0.74	0.74
151	Stomach	0.70	0.69	0.84	0.84
152	Small Intestine	0.01	0.01	0.01	0.01
153	Colon	0.19	0.19	0.25	0.25
154	Rectum	0.27	0.27	0.39	0.39
155	Liver	0.08	0.08	0.10	0.10
156	Gall Bladder	0.08	0.08	0.12	0.12
157	Pancreas	0.10	0.10	0.13	0.13
158	Retroperitoneum	0.02	0.02	0.02	0.02
159	Other Dig Sys	0.00	0.00	0.00	0.00
160	Nasal Cavity	0.07	0.07	0.07	0.07
161	Larynx	0.06	0.06	0.08	0.08
162	Lung	0.22	0.22	0.30	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	0.05	0.05	0.05	0.05
171	Conn Tissue	0.09	0.09	0.12	0.12
172	Skin Melanoma	0.05	0.05	0.05	0.05
173	Skin Other	0.09	0.09	0.12	0.12
174	Breast Female	2.52	2.49	3.06	3.01
179	Uterine Un	0.05	0.05	0.08	0.08
180	Cervix Uteri	3.05	3.00	3.41	3.35
181	Placenta	0.00	0.00	0.00	0.00
182	Body Uterus	0.29	0.29	0.36	0.36
183	Ovary	0.57	0.57	0.68	0.67
184	Vagina	0.14	0.14	0.17	0.17
188	Uri Bladder	0.08	0.08	0.17	0.17
189	Kidney	0.07	0.07	0.09	0.09
190	Eye	0.01	0.01	0.01	0.01
191	Brain	0.17	0.17	0.21	0.21
192	Nervous System	0.02	0.02	0.02	0.02
193	Thyroid Gland	0.15	0.15	0.19	0.19
194	Oth Endo Gland	0.01	0.01	0.01	0.01
195	Ill Def Sites	0.03	0.03	0.04	0.04
196	Sec Lymph Node	0.07	0.07	0.09	0.09
197	Sec Res Etc	0.16	0.16	0.19	0.19
198	Sec Other	0.06	0.06	0.09	0.09
199	Primary Unk	0.06	0.06	0.11	0.11
200	Lymphosarcoma	0.03	0.03	0.05	0.05
201	Hodgkins Dis	0.02	0.02	0.02	0.02
202	Oth Lymphoma	0.21	0.21	0.25	0.25
203	Mult Myeloma	0.08	0.08	0.10	0.10
204	Leuk Lymphatic	0.07	0.07	0.07	0.07
205	Leuk Myelocytic	0.10	0.09	0.11	0.11
206	Leuk Monocytic	0.00	0.00	0.00	0.00
207	Leuk Misc	0.00	0.00	0.00	0.00
208	Leuk Uns	0.03	0.03	0.04	0.04
	<b>ALL SITES</b>	<b>11.69</b>	<b>11.03</b>	<b>14.35</b>	<b>13.37</b>