

POPULATION BASED CANCER REGISTRY, BHOPAL

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A special Population Based Cancer Registry (PBCR) was established by the Indian Council of Medical Research, in the Department of Pathology, Gandhi Medical College, Bhopal in the aftermath of the gas tragedy in December 1984. The registry started functioning from January, 1986, with the objective of registration of all cancer cases residing in Bhopal urban area. Long term objective of this special registry is to study the Methyl Iso-Cyanate gas exposed population of Bhopal for possible carcinogenic effect. Estimated population of Bhopal registry area as on July 1st 1991 is 561582 in males and 502980 in females. Approximately, 57% residents are literate in Bhopal.

The registry collects information from 63 medical centres, dispensaries and primary health centres as well as pathology laboratories. Histopathology facilities are available at Gandhi Medical College, Kasturba Hospital, Jawaharlal Nehru Cancer Hospital and with five private hospitals. JNCH and Hamidia Hospital attached to Gandhi Medical College, are the major sources for registration of cancer cases.

Registry collects information on all cancer patients from local sources as well as from Bombay, since many cancer cases directly go to these places for diagnosis and treatment. Death registration system in Bhopal is far from adequate.

Figure: BHP-1:
Population Pyramid showing Age Distribution: 1990-1996
Bhopal

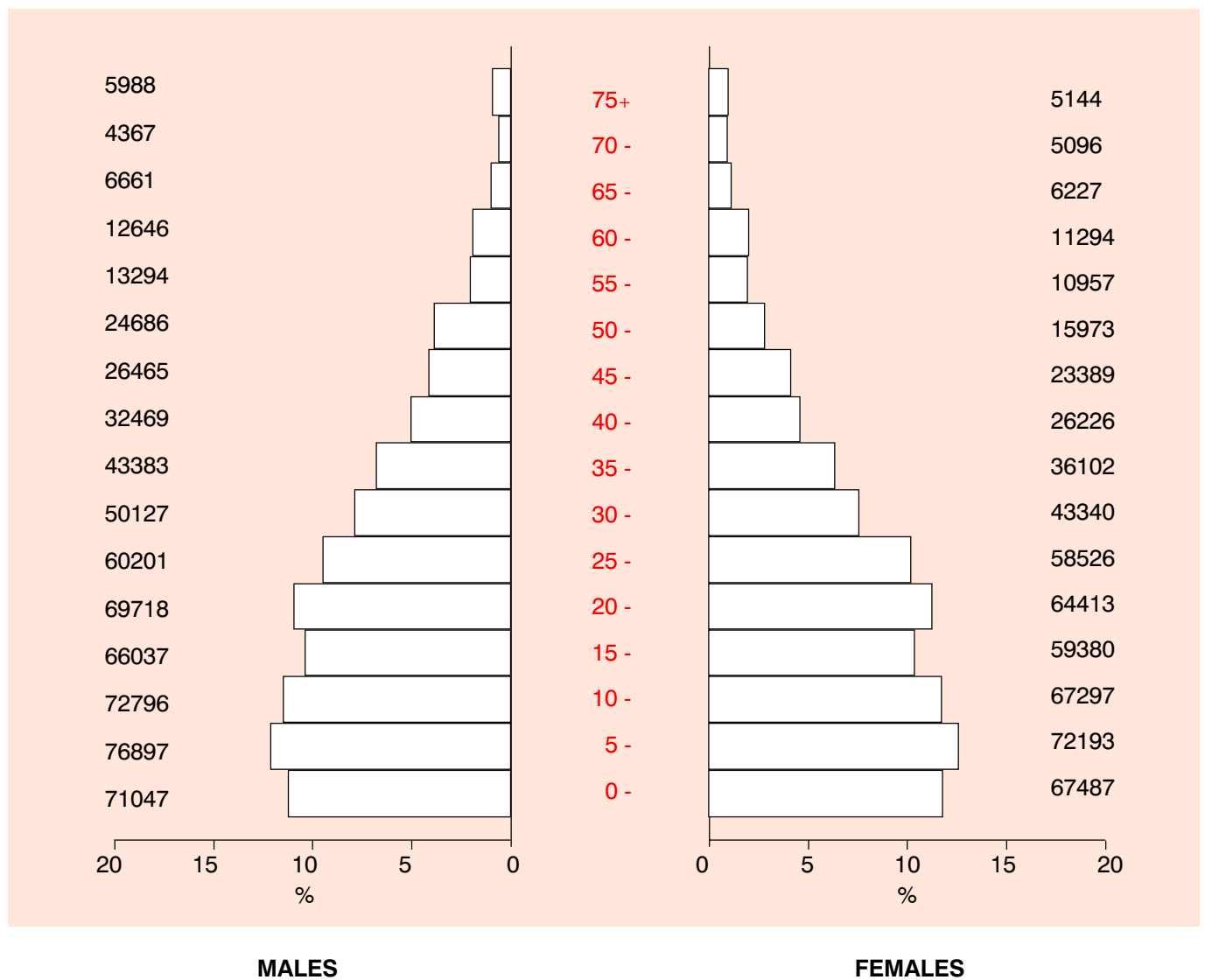


TABLE: BHP-1

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

Bhopal

Age Group	MALES		FEMALES		TOTAL	
	Number	%	Number	%	Number	%
0-4	71047	11.16	67487	11.78	138534	11.45
5-9	76897	12.08	72193	12.60	149090	12.32
10-14	72796	11.43	67297	11.74	140093	11.58
15-19	66037	10.37	59380	10.36	125417	10.37
20-24	69718	10.95	64413	11.24	134131	11.09
25-29	60201	9.45	58526	10.21	118727	9.81
30-34	50127	7.87	43340	7.56	93467	7.73
35-39	43383	6.81	36102	6.30	79485	6.57
40-44	32469	5.10	26226	4.58	58695	4.85
45-49	26465	4.16	23389	4.08	49854	4.12
50-54	24686	3.88	15973	2.79	40659	3.36
55-59	13294	2.09	10957	1.91	24251	2.00
60-64	12646	1.99	11294	1.97	23940	1.98
65-69	6661	1.05	6227	1.09	12888	1.07
70-74	4367	0.69	5096	0.89	9463	0.78
75+	5988	0.94	5144	0.90	11132	0.92
Total	636782	100.0	573044	100.0	1209826	100.0

TABLE: BHP-2
Main Sources* of Registration of Incident Cancers: 1990-1996
Bhopal

Name of Institution	Year of Diagnosis and Relative Proportion (%)							1990-96	
	1990	1991	1992	1993	1994	1995	1996	Number	%
Hamidia Hospital	55.4	53.3	58.3	53.6	52.4	26.7	35.7	2261	47.2
J. N. Cancer Hospital	1.2	0.6	0.9	0.9	16.7	39.6	42.7	769	16.1
Sultania Hospital	11.1	13.2	11.8	9.2	6.4	7.2	4.9	425	8.9
Kasturba Hospital	4.6	3.4	4.6	8.7	3.8	8.5	9.0	298	6.2
TMH-Mumbai	4.3	4.2	6.9	7.4	9.1	5.2	3.8	281	5.9
Bhopal Medical Centre	4.1	6.3	6.1	5.7	3.0	1.5	0.0	175	3.7
Death Certificate Only	4.1	6.1	2.9	2.0	2.7	4.4	1.2	156	3.3
Navodaya Hospital	0.0	0.0	0.9	3.4	1.6	4.2	1.0	80	1.7
Sajjad Hospital	3.1	1.9	2.0	2.6	0.7	0.8	0.5	76	1.6
Indore Cancer Hospital	0.3	1.3	2.1	2.5	1.0	1.2	0.0	57	1.2
Jawahar Nehru Hospital	4.1	1.3	1.2	1.3	0.4	0.0	0.1	53	1.1
Parulkar Clinic	1.2	2.9	1.1	1.2	1.4	0.4	0.0	53	1.1
Total of Above								4684	97.8
All Others								105	2.2
Total All Sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	4789	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: BHP-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.

Bhopal

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	2	0	1	0	1	0	4	0.16	
141	Tongue	0	0	0	0	0	2	1	10	12	16	40	24	35	25	22	19	206	8.11
142	Salivary Gland	0	0	0	0	0	0	0	2	0	0	1	2	2	1	0	0	8	0.32
143	Gum	0	0	0	0	0	0	0	1	0	4	10	2	7	2	2	3	31	1.22
144	Floor of Mouth	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.04
145	Other Mouth	0	0	0	0	0	3	4	13	10	21	26	15	24	11	15	8	150	5.91
146	Oropharynx	0	0	0	0	1	0	1	1	4	1	13	4	17	8	10	6	66	2.60
147	Nasopharynx	0	0	0	0	0	0	1	1	1	3	0	2	1	1	0	0	10	0.39
148	Hypopharynx	0	0	0	0	0	0	2	2	9	13	28	24	39	16	18	15	166	6.54
149	Pharynx Etc.	0	0	0	0	0	0	1	0	1	0	1	1	3	2	3	3	15	0.59
150	Oesophagus	0	0	0	0	1	0	3	5	12	22	26	23	24	22	19	17	174	6.85
151	Stomach	0	0	1	2	3	2	3	3	6	8	19	11	7	10	8	5	88	3.47
152	Small Intestine	0	0	0	1	0	0	0	1	1	2	1	2	1	0	0	0	9	0.35
153	Colon	0	0	0	0	0	1	1	4	2	5	10	10	9	4	5	4	55	2.17
154	Rectum	0	0	0	0	0	1	1	4	3	3	6	9	12	4	2	1	46	1.81
155	Liver	1	1	0	0	0	0	3	4	4	4	6	9	8	5	5	1	51	2.01
156	Gall Bladder	0	0	0	0	1	1	0	0	2	2	5	3	11	6	3	1	35	1.38
157	Pancreas	0	0	0	0	0	0	2	2	2	5	6	11	9	3	2	2	44	1.73
158	Retroperitoneum	0	2	0	0	0	0	0	0	0	0	1	1	1	0	0	0	5	0.20
159	Other Dig System	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	3	0.12
160	Nasal Cavity	0	0	0	0	0	0	1	1	1	3	3	4	4	0	1	1	19	0.75
161	Larynx	0	0	0	0	0	1	1	2	6	7	14	12	23	10	7	7	90	3.54
162	Lung	0	0	0	0	0	2	7	10	20	21	51	40	56	38	34	23	302	11.89
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	0	0	0	0	0	0.00
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	2	7	5	2	1	2	2	1	0	2	2	0	0	1	29	1.14
171	Conn. Tissue	1	2	4	2	1	5	6	3	5	2	3	2	4	2	1	1	44	1.73
172	Skin Melanoma	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	5	0.20
173	Skin. Other	0	0	0	0	1	1	3	4	3	6	8	2	9	5	4	10	56	2.21
175	Breast Male	0	0	0	0	0	0	1	0	0	1	3	0	2	1	1	2	11	0.43
185	Prostate	0	0	0	0	0	0	0	0	0	0	10	16	27	9	15	29	106	4.17
186	Testis	2	0	1	1	3	2	3	7	1	1	1	0	0	0	0	0	22	0.87
187	Penis Etc.	0	0	0	0	1	0	1	2	1	0	3	2	2	2	1	2	17	0.67
188	Uri. Bladder	0	0	0	0	0	1	0	2	2	8	8	12	9	10	4	9	65	2.56
189	Kidney	5	2	1	1	0	1	0	0	0	0	2	3	2	1	2	5	25	0.98
190	Eye	3	1	2	0	0	0	0	0	1	0	1	0	0	0	1	1	10	0.39
191	Brain	4	5	6	1	7	6	6	14	6	10	14	10	4	5	1	2	101	3.98
192	Nervous System	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0.08
193	Thyroid Gland	0	0	0	0	1	2	0	0	1	2	3	5	3	0	5	0	22	0.87
194	Oth. Endo. Gland	0	0	0	1	0	0	1	1	1	0	0	1	1	0	0	1	7	0.28
195	Ill Def. Sites	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0.04
196	Sec. Lymph. Node	2	0	0	0	1	2	2	0	4	5	18	6	11	4	2	7	64	2.52
197	Sec. Res. Etc	0	0	0	0	0	2	0	0	2	3	7	3	6	3	1	5	32	1.26
198	Sec. Other	0	2	0	0	0	2	0	2	1	2	5	1	4	1	1	1	22	0.87
199	Prim. Unknown	0	2	0	3	1	1	0	4	2	8	7	7	17	5	5	10	72	2.84
200	Lymphosarcoma	1	2	1	1	1	0	0	2	2	0	3	1	1	3	0	1	19	0.75
201	Hodgkins. Disease	0	2	3	1	7	1	1	0	1	2	4	2	5	2	1	0	32	1.26
202	Oth. Lymph. Node	0	1	2	3	4	1	3	4	3	1	9	2	4	3	2	2	44	1.73
203	Mult. Myeloma	0	0	0	0	0	0	0	0	2	1	4	8	2	5	0	0	22	0.87
204	Leuk. Lymphatic	8	11	3	6	3	1	3	0	3	1	2	5	2	1	2	0	51	2.01
205	Leuk. Myelocytic	1	2	4	4	10	9	11	7	7	4	3	4	3	0	3	0	72	2.84
206	Leuk. Monocytic	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.04
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	0	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	7	0.28
	All Sites	30	38	31	35	53	53	74	121	147	198	389	303	419	230	210	208	2539	100.00

**TABLE: BHP-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.

Bhopal

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	1	0	0	1	0	0	0	0	2	0.09
141	Tongue	0	0	0	0	0	0	0	2	0	4	3	5	4	1	5	2	26	1.16
142	Salivary Gland	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	4	0.18
143	Gum	0	0	0	0	0	0	1	0	0	1	2	3	3	1	2	0	13	0.58
144	Floor of Mouth	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2	0.09
145	Other Mouth	0	0	0	0	0	0	3	2	8	8	14	11	17	10	11	5	89	3.96
146	Oropharynx	0	0	0	0	0	0	1	0	1	0	0	1	3	1	3	0	10	0.44
147	Nasopharynx	0	0	1	1	0	2	0	0	1	1	1	0	0	0	0	0	7	0.31
148	Hypopharynx	0	0	0	0	0	1	0	1	3	3	1	0	3	4	2	2	20	0.89
149	Pharynx Etc.	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	3	0.13
150	Oesophagus	0	0	0	0	0	0	0	2	11	11	16	11	16	11	9	13	100	4.44
151	Stomach	0	0	1	0	0	1	5	2	3	8	9	1	4	3	2	4	43	1.91
152	Small Intestine	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.04
153	Colon	0	0	0	0	0	0	2	2	1	3	4	0	8	3	1	3	27	1.20
154	Rectum	0	0	0	0	2	0	3	2	1	3	6	4	4	2	7	2	36	1.60
155	Liver	0	0	0	0	0	0	3	0	7	4	1	3	1	1	4	0	24	1.07
156	Gall Bladder	0	0	0	0	0	0	0	2	5	7	6	8	11	4	4	6	53	2.36
157	Pancreas	0	0	0	0	0	0	1	1	1	3	3	4	3	5	1	1	23	1.02
158	Retroperitoneum	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	0.09
159	Other Dig System	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0.04
160	Nasal Cavity	0	0	0	0	0	0	0	1	4	3	3	2	1	1	3	0	18	0.80
161	Larynx	0	0	0	0	0	0	0	0	2	1	2	4	3	1	0	3	16	0.71
162	Lung	0	0	0	0	0	1	0	2	4	4	6	11	11	3	6	6	54	2.40
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	1	0	0	0	0	0	0	0	0	1	0.04
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	2	2	2	2	0	1	1	1	1	0	2	1	0	0	0	16	0.71
171	Conn. Tissue	1	1	1	1	3	2	1	1	1	2	4	1	0	0	1	0	20	0.89
172	Skin Melanoma	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	3	0.13
173	Skin. Other	0	0	0	0	0	0	1	1	3	2	4	3	4	7	3	0	28	1.24
174	Breast	0	0	0	2	1	13	36	61	60	93	74	48	52	24	16	20	500	22.22
179	Uterus NOS.	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	3	0.13
180	Cervix	0	0	0	0	2	19	42	55	65	76	95	52	66	28	24	13	537	23.87
181	Placenta	0	0	0	0	2	3	0	0	1	0	0	0	0	0	0	0	6	0.27
182	Body Uterus	0	0	0	0	0	0	1	1	6	8	7	5	8	0	0	2	38	1.69
183	Ovary	1	1	0	6	10	9	4	12	21	17	22	10	15	9	4	6	147	6.53
184	Vagina	0	0	0	0	1	0	0	2	2	0	3	0	2	1	2	1	14	0.62
188	Uri. Bladder	0	0	0	0	0	0	0	0	1	2	2	1	5	2	2	3	18	0.80
189	Kidney	5	3	0	0	0	0	1	0	0	1	2	1	4	2	0	0	19	0.84
190	Eye	1	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	5	0.22
191	Brain	2	6	6	2	4	2	5	3	3	5	8	1	3	1	1	0	52	2.31
192	Nervous System	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0.09
193	Thyroid Gland	0	0	0	1	1	3	3	7	6	3	7	2	0	1	0	1	35	1.56
194	Oth. Endo. Gland	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0.09
195	Ill Def. Sites	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	3	0.13
196	Sec. Lymph. Node	0	0	0	1	0	1	0	0	2	2	2	1	2	2	0	3	16	0.71
197	Sec. Res. Etc	0	0	0	0	0	1	2	1	4	3	5	1	6	5	3	4	35	1.56
198	Sec. Other	0	0	2	0	1	0	0	0	2	0	1	3	2	0	1	0	12	0.53
199	Prim. Unknown	0	0	2	2	2	2	1	2	3	3	6	10	9	1	2	4	49	2.18
200	Lymphosarcoma	0	0	0	1	2	2	0	0	0	1	1	1	1	0	0	0	9	0.40
201	Hodgkins. Disease	0	3	1	2	2	0	1	0	1	0	1	0	1	1	0	0	13	0.58
202	Oth. Lymph. Node	0	0	4	1	3	2	2	1	1	1	2	2	4	0	0	0	23	1.02
203	Mult. Myeloma	0	0	0	0	0	1	0	0	3	3	0	1	0	1	2	0	11	0.49
204	Leuk. Lymphatic	1	1	3	2	0	2	0	0	0	0	0	0	2	0	0	1	12	0.53
205	Leuk. Myelocytic	1	4	2	4	0	4	5	5	2	3	3	3	2	3	0	1	42	1.87
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. Unspecified	0	1	0	0	1	0	1	0	0	2	0	0	0	0	0	0	5	0.22
	All Sites	14	23	26	29	41	72	128	174	245	294	329	221	286	140	122	106	2250	100.00

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

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	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.7	0.0	0.0	0.0	0.0
141	Tongue	6.1	12.2	4.3	8.7	4.3	8.9	4.4	8.2	4.5	8.6	4.3	7.5	4.5	8.5
142	Salivary Gland	0.2	0.2	0.2	0.2	0.2	0.5	0.0	0.0	0.0	0.0	0.6	1.0	0.1	0.3
143	Gum	0.5	1.1	0.0	0.0	0.8	1.8	0.3	0.4	0.9	1.6	1.3	2.0	0.8	1.5
144	Floor of Mouth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0
145	Other Mouth	1.4	2.4	2.1	3.5	2.8	4.7	4.3	7.0	3.8	6.6	4.5	8.4	4.1	7.3
146	Oropharynx	1.3	2.2	1.0	2.0	1.8	3.5	1.9	3.9	1.8	4.1	1.3	2.2	1.2	2.8
147	Nasopharynx	0.4	0.9	0.2	0.3	0.0	0.0	0.2	0.1	0.3	0.5	0.0	0.0	0.6	0.7
148	Hypopharynx	4.5	9.4	3.5	5.6	4.1	8.6	4.1	8.2	3.9	7.4	3.2	6.1	3.0	6.1
149	Pharynx Etc.	0.4	0.9	0.7	1.6	0.2	0.2	0.2	0.3	0.2	0.3	0.1	0.4	0.7	1.3
150	Oesophagus	5.1	9.9	3.5	7.2	3.3	5.9	3.5	7.0	4.4	8.5	3.8	6.8	4.0	7.5
151	Stomach	2.7	4.9	2.9	4.6	1.8	3.3	1.3	2.4	2.0	3.2	1.4	3.0	1.9	3.1
152	Small Intestine	0.0	0.0	0.2	0.3	0.2	0.3	0.3	0.5	0.2	0.2	0.6	0.7	0.0	0.0
153	Colon	1.3	2.1	0.9	2.0	1.0	1.9	1.1	1.6	1.2	2.1	1.3	2.4	1.8	3.3
154	Rectum	0.9	1.3	1.7	3.4	0.7	1.3	0.6	1.0	1.5	2.4	1.2	2.3	0.7	1.3
155	Liver	0.5	0.9	0.7	1.1	1.3	2.6	1.4	2.7	1.8	2.7	0.7	1.5	1.4	2.3
156	Gall Bladder	0.5	1.0	0.9	1.7	0.8	1.6	0.8	1.9	0.8	1.5	0.6	1.1	1.1	2.1
157	Pancreas	1.1	2.2	1.0	1.8	1.2	2.1	1.0	1.5	1.7	3.0	0.7	1.4	0.4	0.6
158	Retroperitoneum	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7
159	Other Dig System	0.2	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0
160	Nasal Cavity	0.5	1.0	0.4	0.6	0.2	0.2	0.8	1.6	0.5	0.9	0.6	0.8	0.1	0.1
161	Larynx	1.6	2.4	2.1	4.1	2.1	3.7	1.7	3.7	2.1	4.1	2.0	3.7	2.3	4.8
162	Lung	5.8	10.4	7.1	14.9	7.6	15.1	6.8	14.1	6.2	10.9	6.6	12.5	7.3	13.6
163	Pleura	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
164	Thymus	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
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	0.0	0.0	0.7	0.8	0.3	0.3	0.8	0.9	1.2	1.4	0.4	0.4	1.0	0.9
171	Conn. Tissue	1.1	1.5	1.0	1.0	1.2	1.1	1.4	2.0	1.5	1.9	0.6	1.0	0.3	0.3
172	Skin Melanoma	0.0	0.0	0.0	0.0	0.3	0.7	0.2	0.3	0.0	0.0	0.3	0.7	0.0	0.0
173	Skin. Other	1.3	1.9	2.1	3.6	1.2	2.1	1.0	1.6	1.1	1.6	1.0	2.1	1.4	2.8
175	Breast Male	0.7	1.9	0.2	0.2	0.0	0.0	0.3	0.4	0.3	0.4	0.0	0.0	0.3	0.5
185	Prostate	2.7	6.3	2.4	5.6	2.1	4.2	2.7	5.5	2.0	3.8	2.2	4.8	2.6	6.1
186	Testis	0.2	0.2	1.0	0.9	0.5	0.4	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.4
187	Penis Etc.	0.4	0.6	0.7	1.4	0.5	0.8	0.5	0.8	0.0	0.0	0.7	1.2	0.0	0.0
188	Uri. Bladder	1.3	3.0	1.6	3.4	1.5	2.7	1.0	2.0	1.5	2.9	1.6	2.8	1.8	3.2
189	Kidney	0.5	0.9	0.2	0.5	0.7	1.2	0.2	0.1	0.8	1.1	0.6	1.2	1.0	1.3
190	Eye	0.4	0.3	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.1	0.1	0.3	0.6
191	Brain	0.9	1.9	2.4	2.9	2.5	3.3	3.0	4.1	2.0	2.2	2.7	3.1	2.2	2.9
192	Nervous System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.0
193	Thyroid Gland	0.7	1.0	0.2	0.5	0.7	1.0	0.5	1.2	0.2	0.1	0.9	1.4	0.4	1.1
194	Oth. Endo. Gland	0.2	0.2	0.0	0.0	0.3	0.7	0.2	0.2	0.0	0.0	0.3	0.4	0.1	0.1
195	Ill Def. Sites	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
196	Sec. Lymph. Node	0.5	0.7	0.5	0.9	1.7	3.2	0.6	1.3	1.8	3.0	2.7	3.7	1.8	3.2
197	Sec. Res. Etc	0.2	0.5	1.4	2.5	0.5	0.8	0.3	0.8	0.8	1.2	0.7	1.3	1.1	1.8
198	Sec. Other	0.9	1.4	0.5	0.8	0.3	0.8	1.1	1.4	0.2	0.1	0.4	0.7	0.1	0.4
199	Prim. Unknown	1.6	2.2	2.2	4.6	1.7	3.0	1.1	1.8	1.7	3.6	2.3	4.0	0.8	1.4
200	Lymphosarcoma	0.4	0.3	0.4	0.7	0.3	0.4	0.6	0.9	0.3	0.6	0.6	0.9	0.4	0.7
201	Hodgkins. Disease	1.4	1.7	1.0	1.2	0.8	1.1	0.2	0.2	0.5	0.8	0.3	0.5	1.0	1.4
202	Oth. Lymph. Node	1.4	1.8	0.5	0.6	0.8	1.4	1.4	2.3	0.9	1.6	1.2	1.5	0.7	0.7
203	Mult. Myeloma	0.7	1.6	0.5	0.8	0.2	0.3	0.8	1.4	0.8	1.7	0.4	0.9	0.1	0.2
204	Leuk. Lymphatic	0.7	1.1	1.6	1.9	1.2	1.3	1.0	0.9	0.6	0.7	1.4	2.1	1.5	1.6
205	Leuk. Myelocytic	0.9	0.8	1.9	2.4	2.3	2.3	2.8	3.1	1.7	1.9	0.7	0.6	1.1	1.4
206	Leuk. Monocytic	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0	0.2	0.2	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.2	0.3	0.2
	All Sites	54.5	98.1	56.8	101.4	56.1	99.8	57.1	100.3	58.2	100.6	57.9	100.1	57.6	100.9

TABLE: BHP-5(b):

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

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	0.4	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141	Tongue	0.2	0.4	1.0	1.8	0.7	1.5	0.2	0.4	1.3	2.5	0.2	0.3	0.9	1.8
142	Salivary Gland	0.2	0.2	0.0	0.0	0.2	0.2	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
143	Gum	0.2	0.4	0.2	0.4	0.4	0.6	0.2	0.4	0.2	0.2	0.6	1.3	0.5	0.9
144	Floor of Mouth	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.2	0.2	0.0	0.0
145	Other Mouth	2.2	4.0	1.5	2.9	2.6	5.8	2.3	4.5	2.7	5.3	1.8	3.2	2.4	4.4
146	Oropharynx	0.4	0.9	0.2	0.6	0.4	0.8	0.0	0.0	0.3	0.5	0.3	0.7	0.2	0.2
147	Nasopharynx	0.2	0.3	0.0	0.0	0.0	0.0	0.4	0.4	0.3	0.3	0.2	0.1	0.2	0.3
148	Hypopharynx	0.2	0.3	0.0	0.0	0.6	0.9	0.9	1.3	1.2	2.6	0.2	0.4	0.5	0.9
149	Pharynx Etc.	0.2	0.4	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.3	0.0	0.0	0.0	0.0
150	Oesophagus	1.8	3.8	2.1	3.4	2.4	5.0	3.0	6.0	2.8	5.8	2.6	5.0	2.6	4.9
151	Stomach	0.8	1.0	1.9	3.2	0.9	1.8	0.7	1.7	1.0	1.5	1.0	1.4	1.2	1.8
152	Small Intestine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3
153	Colon	1.0	2.3	0.6	1.1	0.6	0.9	0.4	0.7	1.3	2.2	0.3	0.8	0.6	1.0
154	Rectum	0.6	1.1	1.2	1.7	0.7	1.1	1.1	2.1	0.0	0.0	1.4	2.7	1.2	2.4
155	Liver	0.4	0.4	0.2	0.2	0.4	0.7	0.7	1.4	0.8	1.5	1.3	1.9	0.3	0.6
156	Gall Bladder	0.8	1.7	0.8	1.6	1.1	2.2	1.6	2.8	0.8	1.4	2.1	4.0	1.8	3.6
157	Pancreas	0.4	0.9	0.2	0.4	0.7	1.7	1.1	2.4	0.3	0.5	0.3	0.6	0.9	1.6
158	Retroperitoneum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4
159	Other Dig System	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
160	Nasal Cavity	0.8	1.1	0.4	0.8	0.0	0.0	0.5	0.9	0.7	1.4	0.5	0.7	0.3	0.6
161	Larynx	0.6	1.4	0.2	0.3	0.2	0.4	0.5	1.1	0.3	0.6	0.3	0.6	0.6	1.1
162	Lung	0.6	1.1	0.6	1.3	1.5	3.3	1.8	2.8	1.3	2.8	1.9	4.0	1.5	2.5
163	Pleura	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
164	Thymus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0
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	0.4	0.7	1.0	0.8	0.4	0.5	0.4	0.3	0.2	0.4	0.5	0.5	0.2	0.1
171	Conn. Tissue	0.0	0.0	0.8	0.8	0.7	1.3	0.4	0.5	0.8	0.9	0.3	0.3	0.5	0.5
172	Skin Melanoma	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.2	0.3
173	Skin. Other	0.4	0.7	0.6	1.0	0.7	1.5	0.4	0.9	0.8	1.5	1.1	2.6	0.8	1.4
174	Breast Female	12.4	20.2	11.8	20.0	13.2	21.3	12.8	20.7	13.2	21.3	11.8	18.5	12.1	18.2
179	Uterus NOS.	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6
180	Cervix Uteri	13.4	21.8	14.5	24.6	13.2	21.1	13.5	21.1	13.9	22.3	12.6	20.6	12.9	21.3
181	Placenta	0.2	0.2	0.4	0.4	0.0	0.0	0.0	0.0	0.3	0.3	0.2	0.1	0.0	0.0
182	Corpus Uteri	1.0	1.6	1.2	1.8	1.5	2.6	1.1	2.0	0.7	1.1	0.6	1.2	0.8	1.4
183	Ovary Etc.	3.4	4.8	3.7	5.6	5.3	7.5	3.3	5.2	3.5	5.4	3.7	6.0	2.9	4.9
184	Other Fem Gen.	0.6	0.6	1.0	2.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0	0.6	1.2
188	Uri. Bladder	0.6	1.1	0.8	1.6	0.2	0.4	0.0	0.0	0.2	0.3	0.5	0.9	0.9	2.0
189	Kidney	1.2	2.2	0.4	0.6	0.4	0.5	0.4	0.3	0.5	0.6	0.3	0.6	0.3	0.5
190	Eye	0.0	0.0	0.2	0.2	0.6	1.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
191	Brain	1.6	1.9	1.9	3.0	0.7	0.9	1.1	1.8	1.8	2.1	1.0	0.9	1.1	0.9
192	Nervous System	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.4	0.0	0.0	0.0	0.0
193	Thyroid Gland	1.4	1.8	1.2	1.5	1.1	1.4	0.4	0.4	0.7	1.1	0.6	1.1	0.9	1.1
194	Oth. Endo. Gland	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0
195	Ill Def. Sites	0.2	0.2	0.2	0.6	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
196	Sec. Lymph. Node	0.8	1.3	0.4	0.6	0.6	1.1	0.5	0.9	0.3	0.6	0.0	0.0	0.3	0.7
197	Sec. Res. Etc	1.0	2.0	1.7	3.2	0.7	1.6	0.5	0.8	0.5	0.8	0.3	0.7	1.4	2.6
198	Sec. Other	0.0	0.0	0.6	1.0	0.2	0.4	0.7	0.9	0.3	0.5	0.0	0.0	0.3	0.6
199	Prim. Unknown	2.4	4.2	0.6	1.0	1.1	1.8	1.2	2.0	1.3	2.2	1.9	3.5	0.2	0.3
200	Lymphosarcoma	0.6	0.8	0.0	0.0	0.7	0.7	0.2	0.4	0.0	0.0	0.0	0.0	0.2	0.2
201	Hodgkins. Disease	1.2	0.9	0.2	0.2	0.7	1.1	0.2	0.5	0.2	0.2	0.0	0.0	0.0	0.0
202	Oth. Lymph. Node	1.0	1.1	0.6	0.4	0.4	0.5	0.2	0.2	0.3	0.4	0.8	1.1	0.8	1.3
203	Mult. Myeloma	0.2	0.5	0.4	1.0	0.0	0.0	0.7	1.1	0.0	0.0	0.3	0.4	0.3	0.4
204	Leuk. Lymphatic	0.4	0.3	0.2	0.2	0.2	0.2	0.5	0.7	0.3	0.5	0.3	0.3	0.2	0.3
205	Leuk. Myelocytic	1.0	1.0	0.8	0.7	1.1	1.2	1.6	1.9	0.8	1.2	0.8	1.4	1.2	2.0
206	Leuk. Monocytic	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	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	0.0	0.0	0.0	0.0	0.4	0.4	0.2	0.1	0.2	0.1	0.0	0.0	0.2	0.2
	All Sites	57.7	92.4	56.0	92.2	57.6	95.7	56.8	93.5	57.3	94.0	52.7	88.8	55.3	92.1

TABLE: BHP-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 Bhopal

ICD-9	Site	0 - 64 Years		0 - 74 Years	
		Cu.Rate %	Cu.Risk	Cu.Rate%	Cu.Risk
140	Lip	0.01	0.01	0.03	0.03
141	Tongue	0.54	0.54	1.17	1.16
142	Salivary Gland	0.03	0.03	0.04	0.04
143	Gum	0.09	0.09	0.15	0.15
144	Floor of Mouth	0.00	0.00	0.00	0.00
145	Other Mouth	0.4	0.40	0.77	0.77
146	Oropharynx	0.17	0.17	0.42	0.42
147	Nasopharynx	0.03	0.03	0.04	0.04
148	Hypopharynx	0.49	0.49	0.96	0.96
149	Pharynx Etc.	0.03	0.03	0.10	0.10
150	Oesophagus	0.44	0.44	0.99	0.99
151	Stomach	0.21	0.21	0.45	0.45
152	Small Intestine	0.03	0.03	0.03	0.03
153	Colon	0.16	0.16	0.29	0.29
154	Rectum	0.16	0.16	0.23	0.23
155	Liver	0.14	0.14	0.28	0.28
156	Gall Bladder	0.11	0.11	0.22	0.22
157	Pancreas	0.15	0.15	0.22	0.22
158	Retroperitoneum	0.02	0.02	0.02	0.02
159	Other Dig System	0.01	0.01	0.01	0.01
160	Nasal Cavity	0.07	0.07	0.08	0.08
161	Larynx	0.28	0.28	0.50	0.50
162	Lung	0.81	0.81	1.78	1.76
163	Pleura	0.00	0.00	0.00	0.00
164	Thymus	0.00	0.00	0.00	0.00
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	0.13	0.13
172	Skin Melanoma	0.01	0.01	0.02	0.02
173	Skin. Other	0.12	0.12	0.24	0.24
175	Breast Male	0.02	0.02	0.05	0.05
185	Prostate	0.27	0.27	0.61	0.61
186	Testis	0.03	0.03	0.03	0.03
187	Penis Etc.	0.04	0.04	0.08	0.08
188	Uri. Bladder	0.17	0.17	0.34	0.34
189	Kidney	0.04	0.04	0.09	0.09
190	Eye	0.01	0.01	0.03	0.03
191	Brain	0.22	0.22	0.29	0.29
192	Nervous System	0.01	0.01	0.01	0.01
193	Thyroid Gland	0.06	0.06	0.15	0.15
194	Oth. Endo. Gland	0.02	0.02	0.02	0.02
195	Ill Def. Sites	0.01	0.01	0.01	0.01
196	Sec. Lymph. Node	0.18	0.18	0.25	0.25
197	Sec. Res. Etc	0.09	0.09	0.13	0.13
198	Sec. Other	0.06	0.06	0.09	0.09
199	Prim. Unknown	0.20	0.20	0.33	0.33
200	Lymphosarcoma	0.03	0.03	0.07	0.07
201	Hodgkins. Disease	0.07	0.07	0.11	0.11
202	Oth. Lymph. Node	0.09	0.09	0.16	0.16
203	Mult. Myeloma	0.07	0.07	0.13	0.13
204	Leuk. Lymphatic	0.09	0.09	0.13	0.13
205	Leuk. Myelocytic	0.13	0.13	0.18	0.18
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	0.01	0.01
	All Sites	6.57	6.36	12.50	11.75

TABLE: BHP-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 Bhopal

ICD-9	Site	0 - 64 Years		0 - 74 Years	
		Cu.Rate %	Cu.Risk	Cu.Rate%	Cu.Risk
140	Lip	0.01	0.01	0.01	0.01
141	Tongue	0.09	0.09	0.17	0.17
142	Salivary Gland	0.01	0.01	0.01	0.01
143	Gum	0.05	0.05	0.09	0.09
144	Floor of Mouth	0.01	0.01	0.01	0.01
145	Other Mouth	0.30	0.30	0.57	0.57
146	Oropharynx	0.03	0.03	0.08	0.08
147	Nasopharynx	0.01	0.01	0.01	0.01
148	Hypopharynx	0.04	0.04	0.12	0.12
149	Pharynx Etc.	0.02	0.02	0.02	0.02
150	Oesophagus	0.31	0.31	0.57	0.57
151	Stomach	0.12	0.12	0.18	0.18
152	Small Intestine	0.01	0.01	0.01	0.01
153	Colon	0.09	0.09	0.14	0.14
154	Rectum	0.10	0.10	0.22	0.22
155	Liver	0.07	0.07	0.14	0.14
156	Gall Bladder	0.19	0.19	0.29	0.29
157	Pancreas	0.07	0.07	0.15	0.15
158	Retroperitoneum	0.01	0.01	0.01	0.01
159	Other Dig System	0.00	0.00	0.00	0.00
160	Nasal Cavity	0.06	0.06	0.11	0.11
161	Larynx	0.06	0.06	0.07	0.07
162	Lung	0.20	0.20	0.32	0.32
163	Pleura	0.00	0.00	0.00	0.00
164	Thymus	0.00	0.00	0.00	0.00
165	Other Resp.	0.00	0.00	0.00	0.00
170	Bone	0.04	0.04	0.04	0.04
171	Conn. Tissue	0.05	0.05	0.06	0.06
172	Skin Melanoma	0.01	0.01	0.01	0.01
173	Skin. Other	0.08	0.08	0.20	0.20
174	Breast	1.63	1.62	2.13	2.11
179	Uterus NOS.	0.02	0.02	0.02	0.02
180	Cervix	1.81	1.79	2.47	2.44
181	Placenta	0.01	0.01	0.01	0.01
182	Body Uterus	0.16	0.16	0.16	0.16
183	Ovary	0.43	0.43	0.59	0.59
184	Vagina	0.04	0.04	0.08	0.08
188	Uri. Bladder	0.06	0.06	0.11	0.11
189	Kidney	0.05	0.05	0.08	0.08
190	Eye	0.02	0.02	0.02	0.02
191	Brain	0.12	0.12	0.15	0.15
192	Nervous System	0.00	0.00	0.02	0.02
193	Thyroid Gland	0.09	0.09	0.11	0.11
194	Oth. Endo. Gland	0.00	0.00	0.00	0.00
195	Ill Def. Sites	0.00	0.00	0.02	0.02
196	Sec. Lymph. Node	0.04	0.04	0.06	0.06
197	Sec. Res. Etc	0.09	0.09	0.19	0.19
198	Sec. Other	0.05	0.05	0.06	0.06
199	Prim. Unknown	0.18	0.18	0.22	0.22
200	Lymphosarcoma	0.03	0.03	0.03	0.03
201	Hodgkins. Disease	0.02	0.02	0.04	0.04
202	Oth. Lymph. Node	0.07	0.07	0.07	0.07
203	Mult. Myeloma	0.02	0.02	0.06	0.06
204	Leuk. Lymphatic	0.02	0.02	0.02	0.02
205	Leuk. Myelocytic	0.10	0.10	0.13	0.13
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	0.01	0.01
	All Sites	7.11	6.86	10.44	9.91

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

ICD-9	Site	Clinical		Microscopic		X-Ray		D.C.O.		Others		Total	
		#	%	#	%	#	%	#	%	#	%	#	%
140	Lip	0	0.0	4	100.0	0	0.0	0	0.0	0	0.0	4	100.0
141	Tongue	24	11.7	179	86.9	2	1.0	1	0.5	0	0.0	206	100.0
142	Salivary Gland	0	0.0	8	100.0	0	0.0	0	0.0	0	0.0	8	100.0
143	Gum	1	3.2	29	93.5	1	3.2	0	0.0	0	0.0	31	100.0
144	Floor of Mouth	0	0.0	1	100.0	0	0.0	0	0.0	0	0.0	1	100.0
145	Other Mouth	13	8.7	137	91.3	0	0.0	0	0.0	0	0.0	150	100.0
146	Oropharynx	5	7.6	61	92.4	0	0.0	0	0.0	0	0.0	66	100.0
147	Nasopharynx	0	0.0	10	100.0	0	0.0	0	0.0	0	0.0	10	100.0
148	Hypopharynx	16	9.6	150	90.4	0	0.0	0	0.0	0	0.0	166	100.0
149	Pharynx Etc.	3	20.0	12	80.0	0	0.0	0	0.0	0	0.0	15	100.0
150	Oesophagus	3	1.7	144	82.8	15	8.6	2	1.1	10	5.7	174	100.0
151	Stomach	5	5.7	61	69.3	6	6.8	0	0.0	16	18.2	88	100.0
152	Small Intestine	0	0.0	7	77.8	1	11.1	1	11.1	0	0.0	9	100.0
153	Colon	2	3.6	48	87.3	2	3.6	1	1.8	2	3.6	55	100.0
154	Rectum	3	6.5	39	84.8	1	2.2	2	4.3	1	2.2	46	100.0
155	Liver	3	5.9	42	82.4	3	5.9	0	0.0	3	5.9	51	100.0
156	Gall Bladder	2	5.7	10	28.6	15	42.9	1	2.9	7	20.0	35	100.0
157	Pancreas	2	4.5	11	25.0	22	50.0	1	2.3	8	18.2	44	100.0
158	Retroperitoneum	0	0.0	5	100.0	0	0.0	0	0.0	0	0.0	5	100.0
159	Other Dig System	0	0.0	0	0.0	3	100.0	0	0.0	0	0.0	3	100.0
160	Nasal Cavity	3	15.8	15	78.9	1	5.3	0	0.0	0	0.0	19	100.0
161	Larynx	11	12.2	75	83.3	2	2.2	1	1.1	1	1.1	90	100.0
162	Lung	11	3.6	189	62.6	89	29.5	4	1.3	9	3.0	302	100.0
163	Pleura	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
164	Thymus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
165	Other Resp.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
170	Bone	1	3.4	23	79.3	4	13.8	0	0.0	1	3.4	29	100.0
171	Conn. Tissue	0	0.0	41	93.2	2	4.5	0	0.0	1	2.3	44	100.0
172	Skin Melanoma	0	0.0	5	100.0	0	0.0	0	0.0	0	0.0	5	100.0
173	Skin. Other	0	0.0	56	100.0	0	0.0	0	0.0	0	0.0	56	100.0
175	Breast Male	1	9.1	10	90.9	0	0.0	0	0.0	0	0.0	11	100.0
185	Prostate	2	1.9	88	83.0	2	1.9	0	0.0	14	13.2	106	100.0
186	Testis	0	0.0	19	86.4	2	9.1	0	0.0	1	4.5	22	100.0
187	Penis Etc.	2	11.8	15	88.2	0	0.0	0	0.0	0	0.0	17	100.0
188	Uri. Bladder	1	1.5	58	89.2	4	6.2	1	1.5	1	1.5	65	100.0
189	Kidney	1	4.0	21	84.0	0	0.0	0	0.0	3	12.0	25	100.0
190	Eye	0	0.0	7	70.0	3	30.0	0	0.0	0	0.0	10	100.0
191	Brain	0	0.0	59	58.4	25	24.8	0	0.0	17	16.8	101	100.0
192	Nervous System	0	0.0	1	50.0	1	50.0	0	0.0	0	0.0	2	100.0
193	Thyroid Gland	5	22.7	16	72.7	0	0.0	0	0.0	1	4.5	22	100.0
194	Oth. Endo. Gland	0	0.0	3	42.9	2	28.6	1	14.3	1	14.3	7	100.0
195	Ill Def. Sites	0	0.0	0	0.0	1	100.0	0	0.0	0	0.0	1	100.0
196	Sec. Lymph. Node	14	21.9	43	67.2	4	6.3	1	1.6	2	3.1	64	100.0
197	Sec. Res. Etc	7	21.9	8	25.0	12	37.5	2	6.3	3	9.4	32	100.0
198	Sec. Other	2	9.1	1	4.5	13	59.1	0	0.0	6	27.3	22	100.0
199	Prim. Unknown	2	2.8	0	0.0	0	0.0	70	97.2	0	0.0	72	100.0
200	Lymphosarcoma	0	0.0	19	100.0	0	0.0	0	0.0	0	0.0	19	100.0
201	Hodgkins. Disease	0	0.0	31	96.9	0	0.0	1	3.1	0	0.0	32	100.0
202	Oth. Lymph. Node	0	0.0	44	100.0	0	0.0	0	0.0	0	0.0	44	100.0
203	Mult. Myeloma	0	0.0	22	100.0	0	0.0	0	0.0	0	0.0	22	100.0
204	Leuk. Lymphatic	0	0.0	50	98.0	0	0.0	1	2.0	0	0.0	51	100.0
205	Leuk. Myelocytic	0	0.0	71	98.6	0	0.0	1	1.4	0	0.0	72	100.0
206	Leuk. Monocytic	0	0.0	1	100.0	0	0.0	0	0.0	0	0.0	1	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	6	85.7	0	0.0	1	14.3	0	0.0	7	100.0
	All Sites	145	5.7	1955	77.0	238	9.4	93	3.7	108	4.3	2539	100.0

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

ICD-9	Site	Clinical		Microscopic		X-Ray		D.C.O.		Others		Total	
		#	%	#	%	#	%	#	%	#	%	#	%
140	Lip	0	0.0	2	100.0	0	0.0	0	0.0	0	0.0	2	100.0
141	Tongue	1	3.8	25	96.2	0	0.0	0	0.0	0	0.0	26	100.0
142	Salivary Gland	1	25.0	3	75.0	0	0.0	0	0.0	0	0.0	4	100.0
143	Gum	3	23.1	10	76.9	0	0.0	0	0.0	0	0.0	13	100.0
144	Floor of Mouth	0	0.0	2	100.0	0	0.0	0	0.0	0	0.0	2	100.0
145	Other Mouth	13	14.6	76	85.4	0	0.0	0	0.0	0	0.0	89	100.0
146	Oropharynx	1	10.0	9	90.0	0	0.0	0	0.0	0	0.0	10	100.0
147	Nasopharynx	2	28.6	5	71.4	0	0.0	0	0.0	0	0.0	7	100.0
148	Hypopharynx	0	0.0	20	100.0	0	0.0	0	0.0	0	0.0	20	100.0
149	Pharynx Etc.	0	0.0	3	100.0	0	0.0	0	0.0	0	0.0	3	100.0
150	Oesophagus	1	1.0	74	74.0	14	14.0	1	1.0	10	10.0	100	100.0
151	Stomach	4	9.3	26	60.5	6	14.0	0	0.0	7	16.3	43	100.0
152	Small Intestine	0	0.0	1	100.0	0	0.0	0	0.0	0	0.0	1	100.0
153	Colon	3	11.1	22	81.5	1	3.7	0	0.0	1	3.7	27	100.0
154	Rectum	4	11.1	29	80.6	2	5.6	0	0.0	1	2.8	36	100.0
155	Liver	3	12.5	13	54.2	6	25.0	1	4.2	1	4.2	24	100.0
156	Gall Bladder	0	0.0	25	47.2	17	32.1	1	1.9	10	18.9	53	100.0
157	Pancreas	1	4.3	10	43.5	5	21.7	0	0.0	7	30.4	23	100.0
158	Retroperitoneum	0	0.0	2	100.0	0	0.0	0	0.0	0	0.0	2	100.0
159	Other Dig System	0	0.0	1	100.0	0	0.0	0	0.0	0	0.0	1	100.0
160	Nasal Cavity	2	11.1	16	88.9	0	0.0	0	0.0	0	0.0	18	100.0
161	Larynx	1	6.3	15	93.8	0	0.0	0	0.0	0	0.0	16	100.0
162	Lung	1	1.9	31	57.4	18	33.3	1	1.9	3	5.6	54	100.0
163	Pleura	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
164	Thymus	0	0.0	0	0.0	1	100.0	0	0.0	0	0.0	1	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	0	0.0	15	93.8	1	6.3	0	0.0	0	0.0	16	100.0
171	Conn. Tissue	0	0.0	19	95.0	1	5.0	0	0.0	0	0.0	20	100.0
172	Skin Melanoma	0	0.0	3	100.0	0	0.0	0	0.0	0	0.0	3	100.0
173	Skin. Other	0	0.0	28	100.0	0	0.0	0	0.0	0	0.0	28	100.0
174	Breast	52	10.4	439	87.8	7	1.4	2	0.4	0	0.0	500	100.0
179	Uterus NOS.	0	0.0	2	66.7	1	33.3	0	0.0	0	0.0	3	100.0
180	Cervix	78	14.5	455	84.7	3	0.6	1	0.2	0	0.0	537	100.0
181	Placenta	0	0.0	5	83.3	0	0.0	0	0.0	1	16.7	6	100.0
182	Body Uterus	2	5.3	34	89.5	2	5.3	0	0.0	0	0.0	38	100.0
183	Ovary	4	2.7	116	78.9	17	11.6	0	0.0	10	6.8	147	100.0
184	Vagina	2	14.3	12	85.7	0	0.0	0	0.0	0	0.0	14	100.0
188	Uri. Bladder	0	0.0	15	83.3	0	0.0	0	0.0	3	16.7	18	100.0
189	Kidney	0	0.0	15	78.9	3	15.8	1	5.3	0	0.0	19	100.0
190	Eye	1	20.0	4	80.0	0	0.0	0	0.0	0	0.0	5	100.0
191	Brain	0	0.0	23	44.2	26	50.0	0	0.0	3	5.8	52	100.0
192	Nervous System	0	0.0	2	100.0	0	0.0	0	0.0	0	0.0	2	100.0
193	Thyroid Gland	2	5.7	32	91.4	1	2.9	0	0.0	0	0.0	35	100.0
194	Oth. Endo. Gland	0	0.0	2	100.0	0	0.0	0	0.0	0	0.0	2	100.0
195	Ill Def. Sites	1	33.3	1	33.3	0	0.0	1	33.3	0	0.0	3	100.0
196	Sec. Lymph. Node	4	25.0	10	62.5	2	12.5	0	0.0	0	0.0	16	100.0
197	Sec. Res. Etc	5	14.3	7	20.0	14	40.0	1	2.9	8	22.9	35	100.0
198	Sec. Other	1	8.3	1	8.3	8	66.7	1	8.3	1	8.3	12	100.0
199	Prim. Unknown	0	0.0	0	0.0	0	0.0	49	100.0	0	0.0	49	100.0
200	Lymphosarcoma	0	0.0	9	100.0	0	0.0	0	0.0	0	0.0	9	100.0
201	Hodgkins. Disease	0	0.0	13	100.0	0	0.0	0	0.0	0	0.0	13	100.0
202	Oth. Lymph. Node	0	0.0	22	95.7	0	0.0	1	4.3	0	0.0	23	100.0
203	Mult. Myeloma	0	0.0	10	90.9	0	0.0	1	9.1	0	0.0	11	100.0
204	Leuk. Lymphatic	0	0.0	12	100.0	0	0.0	0	0.0	0	0.0	12	100.0
205	Leuk. Myelocytic	0	0.0	41	97.6	0	0.0	1	2.4	0	0.0	42	100.0
206	Leuk. Monocytic	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	0	0.0
208	Leuk. Unspecified	0	0.0	5	100.0	0	0.0	0	0.0	0	0.0	5	100.0
	All Sites	193	8.6	1772	78.8	156	6.9	63	2.8	66	2.9	2250	100.0

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

ICD-9	Site	Pri. Hist		Sec. Hist		Cytology		Blood Film		Bone Marrow		Others		Total	
		#	%	#	%	#	%	#	%	#	%	#	%	#	%
140	Lip	4	99.9	0	0	0	0	0	0	0	0	0	0	4	100
141	Tongue	170	82.5	5	2.4	4	1.9	0	0	0	0	27	13.1	206	100
142	Salivary Glands	6	75	1	12.5	1	12.5	0	0	0	0	0	0	8	100
143	Gum	28	90.3	1	3.2	0	0	0	0	0	0	2	6.5	31	100
144	Floor of Mouth	1	99.9	0	0	0	0	0	0	0	0	0	0	1	100
145	Other Mouth	132	88	4	2.7	1	0.7	0	0	0	0	13	8.7	150	100
146	Oropharynx	59	89.4	1	1.5	1	1.5	0	0	0	0	5	7.6	66	100
147	Nasopharynx	5	50	5	50	0	0	0	0	0	0	0	0	10	100
148	Hypopharynx	142	85.5	4	2.4	4	2.4	0	0	0	0	16	9.6	166	100
149	Pharynx etc	12	80	0	0	0	0	0	0	0	0	3	20	15	100
150	Oesophagus	138	79.3	2	1.1	4	2.3	0	0	0	0	30	17.2	174	100
151	Stomach	54	61.4	3	3.4	4	4.5	0	0	0	0	27	30.7	88	100
152	Small Intestine	7	77.8	0	0	0	0	0	0	0	0	2	22.2	9	100
153	Colon	48	87.3	0	0	0	0	0	0	0	0	7	12.7	55	100
154	Rectum	39	84.8	0	0	0	0	0	0	0	0	7	15.2	46	100
155	Liver	31	60.8	0	0	11	21.6	0	0	0	0	9	17.6	51	100
156	Gall Bladder	10	28.6	0	0	0	0	0	0	0	0	25	71.4	35	100
157	Pancreas	8	18.2	2	4.5	1	2.3	0	0	0	0	33	75	44	100
158	Retroperito	4	80	0	0	1	20	0	0	0	0	0	0	5	100
159	Other Digs	0	0	0	0	0	0	0	0	0	0	3	99.9	3	100
160	Nasal Cavity	14	73.7	0	0	1	5.3	0	0	0	0	4	21.1	19	100
161	Larynx	70	77.8	3	3.3	2	2.2	0	0	0	0	15	16.7	90	100
162	Lung	125	41.4	8	2.6	56	18.5	0	0	0	0	113	37.4	302	100
163	Pleura	0	0	0	0	0	0	0	0	0	0	0	0	0	0
164	Thymus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	Other Resp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	Bone	23	79.3	0	0	0	0	0	0	0	0	6	20.7	29	100
171	Connective	39	88.6	0	0	2	4.5	0	0	0	0	3	6.8	44	100
172	Skin Melanoma	5	99.9	0	0	0	0	0	0	0	0	0	0	5	100
173	Skin Other	56	99.9	0	0	0	0	0	0	0	0	0	0	56	100
175	Breast Male	9	81.8	0	0	1	9.1	0	0	0	0	1	9.1	11	100
185	Prostate	85	80.2	0	0	3	2.8	0	0	0	0	18	17	106	100
186	Testis	19	86.4	0	0	0	0	0	0	0	0	3	13.6	22	100
187	Penis etc	15	88.2	0	0	0	0	0	0	0	0	2	11.8	17	100
188	Uri Bladder	58	89.2	0	0	0	0	0	0	0	0	7	10.8	65	100
189	Kidney	21	84	0	0	0	0	0	0	0	0	4	16	25	100
190	Eye	7	70	0	0	0	0	0	0	0	0	3	30	10	100
191	Brain	58	57.4	0	0	1	1	0	0	0	0	42	41.6	101	100
192	Nervous Sys	1	50	0	0	0	0	0	0	0	0	1	50	2	100
193	Thyroid Glands	10	45.5	0	0	6	27.3	0	0	0	0	6	27.3	22	100
194	Oth. Endo. Gland	2	28.6	0	0	1	14.3	0	0	0	0	4	57.1	7	100
195	Ill Def Site	0	0	0	0	0	0	0	0	0	0	1	99.9	1	100
196	Sec. Lymph Node	0	0	36	56.3	7	10.9	0	0	0	0	21	32.8	64	100
197	Sec. Res. Etc	1	3.1	5	15.6	2	6.3	0	0	0	0	24	75	32	100
198	Sec. Other	0	0	1	4.5	0	0	0	0	0	0	21	95.5	22	100
199	Prim Unknown	0	0	0	0	0	0	0	0	0	0	72	99.9	72	100
200	Lymph Sarcoma	19	99.9	0	0	0	0	0	0	0	0	0	0	19	100
201	Hodgkins Disease	25	78.1	0	0	5	15.6	0	0	1	3.1	1	3.1	32	100
202	Oth. Lymph. Node	41	93.2	0	0	2	4.5	0	0	1	2.3	0	0	44	100
203	Mult Myeloma	3	13.6	0	0	1	4.5	2	9.1	16	72.7	0	0	22	100
204	Leuk Lymphatic	0	0	0	0	0	0	27	52.9	23	45.1	1	2	51	100
205	Leuk Myelocytic	0	0	0	0	0	0	45	62.5	26	36.1	1	1.4	72	100
206	Leuk Monocytic	0	0	0	0	0	0	1	99.9	0	0	0	0	1	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	28.6	4	57.1	1	14.3	7	100
	All Sites	1604	63.2	81	3.2	122	4.8	77	3	71	2.8	584	23	2539	100

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

ICD-9	Site	Pri. Hist		Sec. Hist		Cytology		Blood Film		Bone Marrow		Others		Total	
		#	%	#	%	#	%	#	%	#	%	#	%	#	%
140	Lip	2	99.9	0	0	0	0	0	0	0	0	0	0	2	100
141	Tongue	23	88.5	2	7.7	0	0	0	0	0	0	1	3.8	26	100
142	Salivary Glands	2	50	0	0	1	25	0	0	0	0	1	25	4	100
143	Gum	10	76.9	0	0	0	0	0	0	0	0	3	23.1	13	100
144	Floor of Mouth	2	99.9	0	0	0	0	0	0	0	0	0	0	2	100
145	Other Mouth	76	85.4	0	0	0	0	0	0	0	0	13	14.6	89	100
146	Oropharynx	9	90	0	0	0	0	0	0	0	0	1	10	10	100
147	Nasopharynx	4	57.1	1	14.3	0	0	0	0	0	0	2	28.6	7	100
148	Hypopharynx	20	99.9	0	0	0	0	0	0	0	0	0	0	20	100
149	Pharynx etc	3	99.9	0	0	0	0	0	0	0	0	0	0	3	100
150	Oesophagus	72	72	1	1	1	1	0	0	0	0	26	26	100	100
151	Stomach	24	55.8	0	0	2	4.7	0	0	0	0	17	39.5	43	100
152	Small Intestine	1	99.9	0	0	0	0	0	0	0	0	0	0	1	100
153	Colon	21	77.8	0	0	1	3.7	0	0	0	0	5	18.5	27	100
154	Rectum	29	80.6	0	0	0	0	0	0	0	0	7	19.4	36	100
155	Liver	12	50	0	0	1	4.2	0	0	0	0	11	45.8	24	100
156	Gall Bladder	21	39.6	1	1.9	3	5.7	0	0	0	0	28	52.8	53	100
157	Pancreas	6	26.1	3	13	1	4.3	0	0	0	0	13	56.5	23	100
158	Retroperito	1	50	0	0	1	50	0	0	0	0	0	0	2	100
159	Other Digs	1	99.9	0	0	0	0	0	0	0	0	0	0	1	100
160	Nasal Cavity	15	83.3	0	0	1	5.6	0	0	0	0	2	11.1	18	100
161	Larynx	14	87.5	0	0	1	6.3	0	0	0	0	1	6.3	16	100
162	Lung	22	40.7	0	0	9	16.7	0	0	0	0	23	42.6	54	100
163	Pleura	0	0	0	0	0	0	0	0	0	0	0	0	0	0
164	Thymus	0	0	0	0	0	0	0	0	0	0	1	99.9	1	100
165	Other Resp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	Bone	15	93.8	0	0	0	0	0	0	0	0	1	6.3	16	100
171	Connective	17	85	0	0	2	10	0	0	0	0	1	5	20	100
172	Skin Melanoma	3	99.9	0	0	0	0	0	0	0	0	0	0	3	100
173	Skin Other	27	96.4	0	0	1	3.6	0	0	0	0	0	0	28	100
174	Breast Female	386	77.2	1	0.2	52	10.4	0	0	0	0	61	12.2	500	100
179	Uterus NOS.	2	66.7	0	0	0	0	0	0	0	0	1	33.3	3	100
180	Cervix	442	82.3	0	0	13	2.4	0	0	0	0	82	15.3	537	100
181	Placenta	5	83.3	0	0	0	0	0	0	0	0	1	16.7	6	100
182	Body Uterus	33	86.8	0	0	1	2.6	0	0	0	0	4	10.5	38	100
183	Ovary	110	74.8	4	2.7	2	1.4	0	0	0	0	31	21.1	147	100
184	Vagina	10	71.4	0	0	2	14.3	0	0	0	0	2	14.3	14	100
188	Uri Bladder	15	83.3	0	0	0	0	0	0	0	0	3	16.7	18	100
189	Kidney	15	78.9	0	0	0	0	0	0	0	0	4	21.1	19	100
190	Eye	4	80	0	0	0	0	0	0	0	0	1	20	5	100
191	Brain	23	44.2	0	0	0	0	0	0	0	0	29	55.8	52	100
192	Nervous Sys	2	99.9	0	0	0	0	0	0	0	0	0	0	2	100
193	Thyroid Glands	16	45.7	0	0	16	45.7	0	0	0	0	3	8.6	35	100
194	Oth. Endo. Gland	2	99.9	0	0	0	0	0	0	0	0	0	0	2	100
195	Ill Def Site	1	33.3	0	0	0	0	0	0	0	0	2	66.7	3	100
196	Sec. Lymph Node	0	0	8	50	2	12.5	0	0	0	0	6	37.5	16	100
197	Sec. Res. Etc	0	0	6	17.1	1	2.9	0	0	0	0	28	80	35	100
198	Sec. Other	0	0	1	8.3	0	0	0	0	0	0	11	91.7	12	100
199	Prim Unknown	0	0	0	0	0	0	0	0	0	0	49	99.9	49	100
200	Lymph Sarcoma	8	88.9	0	0	1	11.1	0	0	0	0	0	0	9	100
201	Hodgkins Disease	7	53.8	0	0	6	46.2	0	0	0	0	0	0	13	100
202	Oth. Lymph. Node	20	87	0	0	2	8.7	0	0	0	0	1	4.3	23	100
203	Mult. Myeloma	3	27.3	0	0	0	0	1	9.1	6	54.5	1	9.1	11	100
204	Leuk Lymphatic	1	8.3	0	0	0	0	8	66.7	3	25	0	0	12	100
205	Leuk Myelocytic	2	4.8	0	0	0	0	26	61.9	13	31	1	2.4	42	100
206	Leuk Monocytic	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	3	60	2	40	0	0	5	100
	All Sites	1559	69.3	28	1.2	123	5.5	38	1.7	24	1.1	478	21.2	2250	100

**TABLE: BHP-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.

Bhopal

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	2	0	1	0	0	0	3	0.34
141	Tongue	0	0	0	0	0	0	0	2	5	6	9	5	14	7	10	4	62	7.00
142	Salivary Gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
143	Gum	0	0	0	0	0	0	0	0	0	1	2	1	0	2	0	1	7	0.79
144	Floor of Mouth	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	3	0.34
145	Other Mouth	0	0	0	0	0	0	1	1	3	3	7	9	7	2	3	4	40	4.51
146	Oropharynx	0	0	0	0	0	0	1	0	0	2	1	1	3	2	4	2	16	1.81
147	Nasopharynx	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	0.23
148	Hypopharynx	0	0	0	0	0	0	1	1	5	1	9	5	8	1	5	5	41	4.63
149	Pharynx Etc.	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0	4	0.45
150	Oesophagus	0	0	0	0	2	0	1	2	7	9	6	9	14	12	9	5	76	8.58
151	Stomach	0	0	0	0	1	1	3	1	2	3	9	6	4	5	1	1	37	4.18
152	Small Intestine	0	0	0	1	0	0	0	0	1	0	0	2	0	0	0	0	4	0.45
153	Colon	0	0	0	0	0	1	1	1	0	0	4	1	3	3	1	0	15	1.69
154	Rectum	0	0	0	0	0	1	1	4	2	0	0	4	5	3	1	1	22	2.48
155	Liver	0	1	0	0	0	0	3	2	3	1	2	6	2	4	0	0	24	2.71
156	Gall Bladder	0	0	0	0	1	1	0	0	2	0	0	2	4	3	0	0	13	1.47
157	Pancreas	0	0	0	0	0	0	0	3	0	4	6	6	4	2	1	2	28	3.16
158	Retroperitoneum	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0.34
159	Other Dig System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
160	Nasal Cavity	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	4	0.45
161	Larynx	0	0	0	0	0	0	0	0	2	3	5	5	6	2	4	2	29	3.27
162	Lung	0	0	0	0	0	0	4	2	4	4	21	11	12	12	11	6	87	9.82
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	0	0	0	0	0	0.00
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	1	2	3	0	1	1	0	1	0	0	1	0	0	1	11	1.24
171	Conn. Tissue	0	1	2	1	0	0	2	2	1	1	1	0	1	1	0	0	13	1.47
172	Skin Melanoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
173	Skin. Other	0	0	0	0	0	1	0	1	0	0	3	0	1	1	1	1	9	1.02
175	Breast Male	0	0	0	0	0	0	1	0	0	0	2	0	1	0	0	0	4	0.45
185	Prostate	0	0	0	0	0	0	0	0	0	0	4	4	4	3	4	11	30	3.39
186	Testis	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	3	0.34
187	Penis Etc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
188	Uri. Bladder	0	0	0	0	0	1	0	0	0	2	4	6	5	1	2	2	23	2.60
189	Kidney	3	1	0	0	0	2	0	0	0	0	3	1	1	0	0	1	12	1.35
190	Eye	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0.34
191	Brain	2	1	2	0	1	2	2	6	3	4	5	6	0	0	0	1	35	3.95
192	Nervous System	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0.23
193	Thyroid Gland	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	4	0.45
194	Oth. Endo. Gland	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0.23
195	Ill Def. Sites	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
196	Sec. Lymph. Node	1	0	0	2	4	0	0	2	2	0	3	1	6	3	0	0	24	2.71
197	Sec. Res. Etc	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	4	0.45
198	Sec. Other	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0.23
199	Prim. Unknown	0	3	1	4	1	2	2	5	5	15	22	17	23	7	6	18	131	14.79
200	Lymphosarcoma	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.11
201	Hodgkins. Disease	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.11
202	Oth. Lymph. Node	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	3	0.34
203	Mult. Myeloma	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.11
204	Leuk. Lymphatic	0	2	1	4	3	2	7	1	3	2	3	6	3	3	1	0	41	4.63
205	Leuk. Myelocytic	0	0	1	1	0	1	0	1	1	0	0	0	1	0	0	0	6	0.68
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. Unspecified	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0.11
	All Sites	8	12	8	16	17	17	32	39	53	65	140	122	140	80	67	70	886	100.00

**TABLE: BHP-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.

Bhopal

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	0	0	0	0	0	0	0	0.00
141	Tongue	0	0	0	0	0	0	0	1	1	2	1	1	1	2	2	1	12	1.87
142	Salivary Gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
143	Gum	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	3	0.47
144	Floor of Mouth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
145	Other Mouth	0	0	0	0	0	0	0	0	0	4	6	6	1	3	5	1	26	4.04
146	Oropharynx	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	0.31
147	Nasopharynx	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0.31
148	Hypopharynx	0	0	0	0	0	1	0	0	0	0	0	0	1	4	1	1	8	1.24
149	Pharynx Etc.	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.16
150	Oesophagus	0	0	0	0	0	0	0	1	5	3	6	8	6	5	5	2	41	6.38
151	Stomach	0	0	0	0	0	0	1	0	3	7	3	0	1	2	0	1	18	2.80
152	Small Intestine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
153	Colon	0	0	0	0	0	0	1	1	1	1	2	0	3	2	0	0	11	1.71
154	Rectum	0	0	0	0	1	0	1	0	0	0	1	1	0	0	1	0	5	0.78
155	Liver	0	0	0	0	0	0	1	0	1	4	0	0	1	1	1	0	9	1.40
156	Gall Bladder	0	0	0	0	0	0	0	3	0	2	2	3	2	0	0	3	15	2.33
157	Pancreas	0	0	0	0	0	0	1	0	1	0	0	1	2	2	1	0	8	1.24
158	Retroperitoneum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
159	Other Dig System	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0.16
160	Nasal Cavity	0	0	0	0	0	0	0	0	0	0	2	1	0	0	2	0	5	0.78
161	Larynx	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	3	0.47
162	Lung	0	0	0	0	0	2	0	0	3	0	2	6	2	2	3	3	23	3.58
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	1	0	0	0	0	0	0	0	0	1	0.16
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	0	0	0	0	0	0	0	1	1	1	0	0	0	0	3	0.47
171	Conn. Tissue	0	0	0	1	1	1	0	0	1	0	1	0	0	0	1	0	6	0.93
172	Skin Melanoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
173	Skin. Other	0	0	0	0	0	0	1	0	1	0	1	2	0	1	0	0	6	0.93
174	Breast	0	0	0	0	0	3	9	11	15	21	22	14	14	3	6	3	121	18.82
179	Uterus NOS.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
180	Cervix	0	0	0	0	1	4	6	15	11	11	20	9	17	7	5	3	109	16.95
181	Placenta	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3	0.47
182	Body Uterus	0	0	0	0	0	0	0	0	1	2	3	0	1	0	0	0	7	1.09
183	Ovary	0	0	0	1	4	2	2	1	6	3	9	4	4	2	1	2	41	6.38
184	Vagina	0	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0	4	0.62
188	Uri. Bladder	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0.16
189	Kidney	1	1	0	0	0	0	0	0	0	0	1	0	3	0	0	0	6	0.93
190	Eye	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
191	Brain	1	2	2	0	3	1	0	0	1	2	2	1	1	1	0	0	17	2.64
192	Nervous System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.16
193	Thyroid Gland	0	0	0	0	0	0	0	1	0	0	2	1	0	0	1	1	6	0.93
194	Oth. Endo. Gland	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.16
195	Ill Def. Sites	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	3	0.47
196	Sec. Lymph. Node	0	0	1	1	0	1	0	0	1	0	0	0	1	0	0	0	5	0.78
197	Sec. Res. Etc	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0.31
198	Sec. Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
199	Prim. Unknown	0	0	2	2	2	5	2	2	7	8	13	12	13	1	8	5	82	12.75
200	Lymphosarcoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
201	Hodgkins. Disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
202	Oth. Lymph. Node	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.16
203	Mult. Myeloma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.16
204	Leuk. Lymphatic	1	1	1	1	0	2	2	2	1	0	1	4	0	0	0	1	17	2.64
205	Leuk. Myelocytic	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	3	0.47
206	Leuk. Monocytic	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.16
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	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0.31
	All Sites	5	5	7	8	14	27	30	40	64	73	104	75	78	41	45	27	643	100.00

TABLE: BHP-11: Number (#) and Proportion (%) of Types of Childhood Cancers 1990-1996
Bhopal

Type of Childhood Cancer	Males		Females	
	#	%	#	%
I. LEUKAEMIAS	32	32.32	12	19.05
(a) Acute lymphocytic leukaemia	22	22.22	5	7.94
(b) Other lymphoid leukaemia	0	0.00	0	0.00
(c) Acute non-lymphocytic leukaemia	5	5.05	4	6.35
(d) Chronic myeloid leukaemia	3	3.03	2	3.17
(e) Other and unspecified leukaemia	2	2.02	1	1.59
II. LYMPHOMAS & OTHER RETICULOENDOTHELIAL	13	13.13	7	11.11
(a) Hodgkin's disease	5	5.05	4	6.35
(b) Non-Hodgkin lymphoma	5	5.05	1	1.59
(c) Burkitt's lymphoma	2	2.02	0	0.00
(d) Unspecified lymphomas	1	1.01	2	3.17
(e) Histiocytosis X	0	0.00	0	0.00
(f) Other reticuloendothelial neoplasms	0	0.00	0	0.00
III. C.N.S.& MISC.INTRACRANIAL & INTRASPINAL NEOP.	16	16.16	16	25.40
(a) Ependymoma	0	0.00	0	0.00
(b) Astrocytoma	8	8.08	2	3.17
(c) Medulloblastoma	3	3.03	1	1.59
(d) Other glioma	1	1.01	5	7.94
(e) Misc.intracranial & intraspinal neop.	4	4.04	8	12.70
IV. SYMPATHETIC NERVOUS SYSTEM TUMOURS	5	5.05	0	0.00
(a) Neuroblastoma & ganglioneuroblastoma	5	5.05	0	0.00
(b) Other	0	0.00	0	0.00
V. RETINOBLASTOMA	5	5.05	2	3.17
VI. RENAL TUMOURS	8	8.08	7	11.11
(a) Wilms' tumour	5	5.05	4	6.35
(b) Renal carcinoma	1	1.01	2	3.17
(c) Other & unsp. malignant renal tumours	2	2.02	1	1.59
VII. HEPATIC TUMOURS	2	2.02	0	0.00
(a) Hepatoblastoma	1	1.01	0	0.00
(b) Hepatic carcinoma	1	1.01	0	0.00
(c) Other & unsp. malignant hepatic tumours	0	0.00	0	0.00
VIII. MALIGNANT BONE TUMOURS	4	4.04	5	7.94
(a) Osteosarcoma	2	2.02	2	3.17
(b) Chondrosarcoma	0	0.00	0	0.00
(c) Ewing's sarcoma	2	2.02	1	1.59
(d) Other & unsp. malignant bone tumours	0	0.00	2	3.17
IX. SOFT-TISSUE(S-T) SARCOMAS(S)	7	7.07	6	9.52
(a) Rhabdomyos. embryonals.& s-t.Ewings tum.	4	4.04	4	6.35
(b) Fibros.neurofibros.&oth.fibromatous neop.	0	0.00	0	0.00
(c) Other soft-tissue sarcoma	3	3.03	2	3.17
X. GERM-CELL TROPHOBLASTIC & OTH GONADAL NEOP.	3	3.03	3	4.76
(a) Non-gonadal gc & trophoblastic neop.	0	0.00	1	1.59
(b) Gonadal gc & trophoblastic neop.	3	3.03	2	3.17
(c) Gonadal carcinoma	0	0.00	0	0.00
(d) Other & unsp.malignant gonadal tumours	0	0.00	0	0.00
XI. CARCINOMA & OTH MALIGNANT EPITHELIAL NEOP.	1	1.01	1	1.59
(a) Adrenocortical carcinoma	0	0.00	0	0.00
(b) Thyroid carcinoma	0	0.00	0	0.00
(c) Nasopharyngeal carcinoma	0	0.00	0	0.00
(d) Malanomatous neoplasms	0	0.00	0	0.00
(e) Other carcinoma	1	1.01	1	1.59
XII. OTHER & UNSP. MALIGNANT NEOPLASMS	3	3.03	3	4.76
OTHERS (Not Classified)	0	0.00	1	1.59
TOTAL (ALL CHILDHOOD CANCERS)	99	100.00	63	100.00