

POPULATION BASED CANCER REGISTRY, DELHI

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The Population Based Cancer Registry at Dr. B.R. Ambedkar Institute Rotary Cancer Hospital, AIIMS, Delhi covers an area of 685.34 square kms as per 1991 census. The sources for the morbidity and mortality data on cancer are 159 major government hospital/centres/Institutions, more than 255 private hospitals/nursing homes and the Department of Vital Statistics of New Delhi Municipal Committee Corporation of Delhi and Delhi Cantonment Board.

There has been no change in cancer registration system, methodology, diagnostic criteria and working of the registry from the previous years.

Population Estimates

Taking 1991 and 2001 census figures as base, the population of Delhi UT urban area for the years 1997 and 1998 are estimated as 11.01 million (Males: 6.03; Females: 4.97) and 11.47 million (Males: 6.29; Females: 5.18) respectively.

Highlights

During 1997-98 the crude incidence rate (CR) for all cancer sites for males and females are 73.1 and 86.8 respectively. The world age adjusted incidence rates (AAR) are 120.9 and 134.8 among males and females respectively. The truncated incidence rate (TCR) for ages 35-64 years for males and females are 200.5 and 273.1 respectively. All these three rates are higher in females as compared to males.

In males, lung was the predominant site followed by larynx, prostate, brain and Non-Hodgkin's Lymphoma.

Among females breast was the leading site followed by cervix uteri, ovary, gall bladder and body uterus.

Staff of Delhi Cancer Registry

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FIGURE DEL-1:

Population Pyramid showing Age Distribution : 1997-98

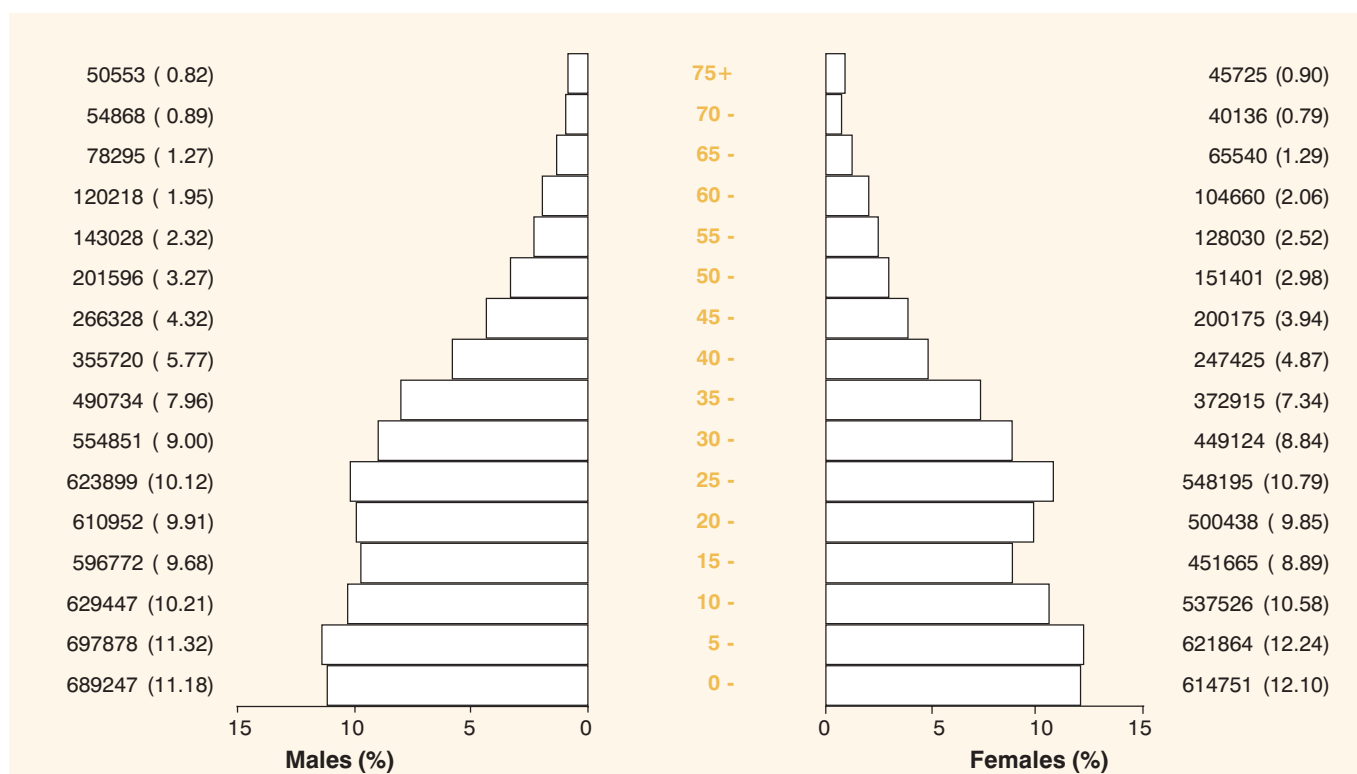


TABLE DEL-1:

Main Sources* of Registration of Incident Cases of Cancer in Delhi - 1997-1998

Name of the Institution	Number	%
IRCH / AIIMS	3397	19.1
Rajiv Gandhi Cancer Hospital	2397	13.4
ICPO/MAMC/LNJP	2205	12.4
Safdarjang	1903	10.7
Gangaram	1077	6.0
MCA	940	5.3
RML	810	4.5
Dharmashila	688	3.9
Batra	629	3.5
NDMC	514	2.9
LHMC	495	2.8
GB Pant	369	2.1
Anand Hospital	260	1.5
UCMS	253	1.4
ESI	239	1.3
Holy Family Hospital	219	1.2
St.Stephen's	217	1.2
Apollo Hospital	205	1.1
All Others	1011	5.7
Total All Sources	17828	100.0

* 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 DEL-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.

Delhi

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	1	0	0	4	1	1	4	3	5	4	0	1	24	0.27
141	Tongue	3	1	0	0	1	2	11	15	32	58	55	45	72	38	24	27	384	4.26
142	Salivary Gland	1	0	1	0	0	3	2	3	6	8	8	5	10	7	7	5	66	0.73
143	Gum	0	1	0	0	0	1	2	3	9	14	10	11	12	7	2	8	80	0.89
144	Floor of Mouth	0	0	0	0	0	0	0	1	0	1	1	0	3	0	0	1	7	0.08
145	Other Mouth	0	1	0	0	2	7	14	11	24	35	28	34	43	16	17	14	246	2.73
146	Oropharynx	0	0	0	0	0	2	5	9	21	27	39	25	38	21	15	10	212	2.35
147	Nasopharynx	0	0	0	3	0	2	3	4	6	4	3	2	1	5	5	1	39	0.43
148	Hypopharynx	1	0	0	1	0	0	1	2	14	18	33	23	38	28	22	12	193	2.14
149	Pharynx Etc.	0	0	0	0	0	0	2	1	1	4	4	6	9	4	4	2	37	0.41
150	Oesophagus	0	0	1	1	3	1	5	19	29	34	56	56	70	44	35	39	393	4.36
151	Stomach	0	0	0	1	0	1	5	15	19	16	34	40	34	22	23	15	225	2.49
152	Small Intestine	0	0	0	0	0	1	4	4	5	2	1	3	0	3	2	1	26	0.29
153	Colon	0	1	0	1	1	4	14	17	20	13	19	24	26	19	11	15	185	2.05
154	Rectum	0	0	2	4	4	6	14	13	20	26	20	17	20	24	15	22	207	2.29
155	Liver	3	1	0	2	1	3	3	9	4	13	17	17	25	21	6	19	144	1.60
156	Gall Bladder	0	0	0	0	1	6	3	13	19	29	30	43	34	34	30	23	265	2.94
157	Pancreas	0	0	0	0	2	3	2	6	20	12	16	22	20	17	12	9	141	1.56
158	Retroperitoneum	1	0	0	0	1	1	1	1	0	1	2	1	1	3	1	2	16	0.18
159	Other Dig Sys	1	0	0	0	2	0	0	1	1	0	1	2	4	4	2	2	20	0.22
160	Nasal Cavity	2	4	0	0	2	2	3	0	1	4	2	2	1	5	0	0	28	0.31
161	Larynx	0	0	1	2	2	5	5	13	62	64	81	70	94	68	62	46	575	6.37
162	Lung	1	0	0	1	0	5	13	20	54	86	153	117	157	128	97	65	897	9.94
163	Pleura	0	0	0	0	0	0	0	1	0	3	5	1	3	3	4	2	22	0.24
164	Thymus	0	2	0	0	0	0	0	3	2	1	0	0	0	1	0	0	9	0.10
165	Other Resp	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0.02
170	Bone	1	9	21	18	24	10	14	10	11	8	5	5	9	5	4	1	155	1.72
171	Conn Tissue	11	10	4	13	11	20	14	8	9	5	10	8	14	12	7	3	159	1.76
172	Skin Melanoma	0	0	0	1	0	2	3	2	2	0	5	1	5	2	5	4	32	0.35
173	Skin Other	2	1	2	1	8	3	3	3	6	5	8	5	11	11	5	17	91	1.01
175	Breast Male	0	0	0	1	0	2	1	0	3	6	7	6	6	3	5	5	45	0.50
185	Prostate	0	2	0	1	1	0	0	1	2	5	25	41	68	93	95	147	481	5.33
186	Testis	7	0	1	10	10	18	10	10	0	9	6	1	3	1	2	2	90	1.00
187	Penis Etc	1	0	0	0	2	2	3	5	5	10	4	5	10	4	5	10	66	0.73
188	Uri Bladder	2	0	0	2	2	3	7	11	18	20	32	47	55	68	54	61	382	4.23
189	Kidney	21	6	2	1	3	5	1	6	19	19	20	28	33	19	16	6	205	2.27
190	Eye	22	7	2	0	0	0	1	0	1	1	0	0	0	0	1	0	35	0.39
191	Brain	22	24	25	22	31	31	33	34	26	33	25	34	32	22	13	14	421	4.67
192	Nervous Sys	1	4	2	0	0	3	2	0	0	0	1	2	2	0	0	0	17	0.19
193	Thyroid Gland	0	3	1	2	3	1	11	5	15	4	16	7	7	7	5	3	90	1.00
194	Oth Endo Gland	14	2	3	0	0	1	2	1	2	1	1	1	0	0	1	1	30	0.33
195	Ill Def Sites	6	2	1	2	0	4	10	7	14	10	19	11	8	17	10	7	128	1.42
196	Sec Lymph Node	0	0	3	2	0	3	2	6	9	10	25	13	26	14	8	13	134	1.49
197	Sec Res Etc	0	2	0	2	4	1	1	3	7	12	17	18	19	15	11	9	121	1.34
198	Sec Other	1	1	1	0	1	1	4	1	6	6	11	5	9	14	11	6	78	0.86
199	Primary Unk	1	5	4	5	5	9	12	16	27	42	51	56	54	41	46	41	415	4.60
200	Lymphosarcoma	0	1	1	0	1	0	2	1	0	0	1	1	0	0	0	2	10	0.11
201	Hodgkins Dis	4	23	13	12	15	10	18	20	6	8	9	3	7	5	5	6	164	1.82
202	Oth Lymph Node	7	16	16	31	19	24	26	13	29	29	43	36	30	36	23	24	402	4.46
203	Mult Myeloma	0	1	1	0	1	2	1	7	13	12	26	29	29	25	21	12	180	1.99
204	Leuk Lymphatic	49	47	45	32	12	12	6	12	11	11	11	10	14	6	11	12	301	3.34
205	Leuk Myelocytic	4	8	14	18	36	35	20	24	34	23	16	12	9	5	13	10	281	3.11
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	8	5	6	7	7	6	2	4	5	3	5	2	5	0	1	1	67	0.74
	TOTAL	197	190	174	199	219	263	321	398	651	766	1021	956	1185	951	774	758	9023	
	%	2.1	2.1	1.9	2.2	2.4	2.9	3.5	4.4	7.2	8.4	11.3	10.6	13.1	10.5	8.5	8.4	100.0	

**TABLE DEL-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.

Delhi

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	2	1	0	1	1	0	2	0	1	8	0.09
141	Tongue	0	0	1	1	1	1	3	1	7	10	17	13	26	12	11	12	116	1.32
142	Salivary Gland	0	0	1	1	0	3	5	1	4	0	4	1	4	3	3	2	32	0.36
143	Gum	0	0	0	0	1	0	2	1	2	3	8	3	9	4	4	2	39	0.44
144	Floor of Mouth	0	0	0	0	0	1	0	1	0	0	1	0	0	0	3	0	6	0.07
145	Other Mouth	0	0	0	0	0	2	4	10	5	17	11	12	12	14	5	3	95	1.08
146	Oropharynx	0	1	0	0	0	0	1	1	5	5	11	7	7	5	2	1	46	0.52
147	Nasopharynx	0	0	1	0	1	0	1	1	1	3	3	0	0	2	0	0	13	0.15
148	Hypopharynx	0	1	0	0	0	0	1	2	3	3	6	5	6	2	1	1	31	0.35
149	Pharynx Etc	0	0	0	0	0	0	0	0	4	1	2	1	2	0	0	0	10	0.11
150	Oesophagus	0	0	0	0	1	1	4	5	13	24	26	25	28	25	21	21	194	2.20
151	Stomach	1	1	0	2	3	8	11	10	9	13	17	16	11	13	9	9	133	1.51
152	Small Intestine	0	0	0	0	0	1	1	2	1	1	2	0	1	2	1	2	14	0.16
153	Colon	0	0	0	0	5	5	3	7	12	7	15	13	17	14	9	10	117	1.33
154	Rectum	0	0	1	1	3	6	6	12	12	8	14	9	13	8	4	11	108	1.23
155	Liver	2	2	0	0	0	0	4	2	10	7	7	7	10	8	2	5	66	0.75
156	Gall Bladder	0	0	0	0	5	6	19	26	45	72	86	69	93	66	52	30	569	6.46
157	Pancreas	0	0	1	2	1	0	7	5	7	8	10	11	12	8	8	10	90	1.02
158	Retroperitoneum	0	0	0	0	1	0	3	5	3	6	1	1	1	3	4	3	31	0.35
159	Other Dig Sys	0	0	0	0	0	0	0	0	0	1	0	2	1	1	0	2	7	0.08
160	Nasal Cavity	0	0	1	0	2	2	0	1	2	0	2	1	3	0	1	2	17	0.19
161	Larynx	1	1	1	0	2	4	4	4	7	7	9	7	11	7	8	2	75	0.85
162	Lung	0	0	1	1	2	5	3	4	14	10	27	22	34	22	15	12	172	1.95
163	Pleura	0	0	0	0	0	0	0	1	2	4	1	0	1	1	1	2	13	0.15
164	Thymus	0	1	1	1	0	0	0	0	1	0	2	1	0	0	0	0	7	0.08
165	Other Resp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	Bone	3	3	16	12	13	12	12	4	3	4	3	1	6	4	2	2	100	1.14
171	Conn Tissue	8	2	6	5	14	11	10	11	9	11	8	13	10	6	1	2	127	1.44
172	Skin Melanoma	0	0	0	0	1	1	0	0	1	1	4	1	3	3	3	0	18	0.20
173	Skin Other	2	0	1	1	1	2	3	3	4	8	10	7	7	6	7	7	69	0.78
174	Breast Female	0	0	0	4	24	54	139	215	301	278	285	232	232	137	83	78	2062	23.42
179	Uterine Un	0	0	0	1	1	0	2	2	0	4	9	8	9	6	3	0	45	0.51
180	Cervix Uteri	0	0	0	0	14	33	99	143	197	185	260	149	167	95	58	63	1463	16.62
181	Placenta	0	0	0	1	10	13	5	2	0	0	0	0	0	0	0	0	31	0.35
182	Body Uterus	0	0	0	0	5	6	4	12	15	30	30	22	35	25	17	15	216	2.45
183	Ovary	2	0	6	13	18	26	21	46	95	75	95	64	78	52	31	38	660	7.50
184	Vagina	0	0	0	1	0	2	1	3	2	5	3	7	9	4	7	12	56	0.64
188	Uri Bladder	0	0	0	0	1	1	3	4	4	5	7	14	17	12	14	11	93	1.06
189	Kidney	7	3	2	0	1	5	5	2	5	9	11	8	6	7	2	5	78	0.89
190	Eye	10	2	0	2	1	1	0	1	0	0	1	0	0	1	0	0	19	0.22
191	Brain	9	11	10	10	12	10	27	23	16	13	17	20	19	9	6	4	216	2.45
192	Nervous System	0	0	0	0	0	1	0	1	1	1	1	0	0	0	0	0	5	0.06
193	Thyroid Gland	0	0	1	5	16	19	22	16	10	13	26	12	15	6	4	4	169	1.92
194	Oth Endo Gland	3	3	1	0	3	0	1	3	4	3	2	0	2	0	0	0	25	0.28
195	Ill Def Sites	3	1	3	1	1	2	3	5	4	6	8	6	5	5	6	5	64	0.73
196	Sec Lymph Node	1	0	1	1	1	2	2	2	4	1	9	1	8	6	8	4	51	0.58
197	Sec Res Etc	1	0	0	0	1	1	7	5	7	9	12	10	13	15	9	5	95	1.08
198	Sec Other	0	2	1	0	2	4	3	3	10	4	9	5	4	6	3	2	58	0.66
199	Primary Unk	0	3	1	4	5	8	12	16	30	42	50	38	36	31	29	46	351	3.99
200	Lymphosarcoma	0	1	0	1	0	0	0	0	1	0	0	1	0	0	1	0	5	0.06
201	Hodgkins Dis	2	6	5	5	8	10	1	6	4	2	3	3	3	0	1	4	63	0.72
202	Oth Lymphoma	3	6	3	4	9	8	12	18	11	18	23	15	19	26	4	19	198	2.25
203	Mult Myeloma	0	0	1	1	0	1	2	2	3	8	6	18	17	11	10	7	87	0.99
204	Leuk Lymphatic	34	23	22	8	3	11	5	4	8	3	5	1	8	7	6	5	153	1.74
205	Leuk Myelocytic	5	6	12	13	13	17	21	29	17	15	9	5	8	6	5	2	183	2.08
206	Leuk Monocytic	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0.02
207	Leuk Misc	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	3	0.03
208	Leuk Uns	4	3	5	3	1	2	2	1	0	0	1	0	5	1	1	2	31	0.35
	TOTAL	101	82	106	106	207	309	506	686	936	963	1190	889	1044	709	486	485	8805	
	%	1.1	0.9	1.2	1.2	2.3	3.5	5.7	7.7	10.6	10.9	13.5	10.1	11.8	8.0	5.5	5.5	100.0	

TABLE DEL-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 - Delhi

ICD-9	Site	0 - 64 Years		0 - 74 Years	
		Cu. Rate %	Cu. Risk	Cu. Rate%	Cu. Risk
140	Lip	0.04	0.04	0.04	0.04
141	Tongue	0.51	0.51	0.62	0.62
142	Salivary Gland	0.08	0.08	0.11	0.11
143	Gum	0.10	0.10	0.11	0.11
144	Floor of Mouth	0.01	0.01	0.01	0.01
145	Other Mouth	0.30	0.30	0.38	0.38
146	Oropharynx	0.29	0.29	0.36	0.35
147	Nasopharynx	0.04	0.04	0.06	0.06
148	Hypopharynx	0.28	0.28	0.38	0.38
149	Pharynx Etc.	0.05	0.05	0.07	0.07
150	Oesophagus	0.52	0.52	0.68	0.68
151	Stomach	0.29	0.29	0.40	0.40
152	Small Intestine	0.03	0.03	0.03	0.03
153	Colon	0.22	0.22	0.27	0.27
154	Rectum	0.23	0.23	0.30	0.30
155	Liver	0.19	0.19	0.22	0.22
156	Gall Bladder	0.34	0.34	0.48	0.48
157	Pancreas	0.19	0.19	0.24	0.24
158	Retroperitoneum	0.02	0.02	0.02	0.02
159	Other Dig Sys	0.03	0.03	0.04	0.04
160	Nasal Cavity	0.03	0.03	0.03	0.03
161	Larynx	0.75	0.75	1.04	1.03
162	Lung	1.27	1.26	1.71	1.69
163	Pleura	0.03	0.03	0.04	0.04
164	Thymus	0.01	0.01	0.01	0.01
165	Other Resp	0.00	0.00	0.00	0.00
170	Bone	0.11	0.11	0.13	0.13
171	Conn Tissue	0.14	0.14	0.17	0.17
172	Skin Melanoma	0.03	0.03	0.05	0.05
173	Skin Other	0.10	0.09	0.12	0.12
175	Breast Male	0.05	0.05	0.07	0.07
185	Prostate	0.55	0.55	0.98	0.98
186	Testis	0.05	0.05	0.06	0.06
187	Penis Etc	0.07	0.07	0.09	0.09
188	Uri Bladder	0.50	0.50	0.74	0.74
189	Kidney	0.25	0.25	0.33	0.32
190	Eye	0.01	0.01	0.02	0.02
191	Brain	0.37	0.37	0.43	0.43
192	Nervous Sys	0.01	0.01	0.01	0.01
193	Thyroid Gland	0.10	0.09	0.12	0.12
194	Oth Endo Gland	0.01	0.01	0.02	0.02
195	Ill Def Sites	0.15	0.15	0.19	0.19
196	Sec Lymph Node	0.18	0.17	0.21	0.21
197	Sec Res Etc	0.16	0.16	0.21	0.21
198	Sec Other	0.10	0.10	0.15	0.15
199	Primary Unk	0.49	0.49	0.70	0.70
200	Lymphosarcoma	0.01	0.01	0.01	0.01
201	Hodgkins Dis	0.11	0.11	0.13	0.13
202	Oth Lymph Node	0.40	0.40	0.51	0.51
203	Mult Myeloma	0.25	0.25	0.35	0.34
204	Leuk Lymphatic	0.18	0.18	0.23	0.23
205	Leuk Myelocytic	0.19	0.19	0.25	0.25
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	0.05	0.05	0.05	0.05
	ALL SITES	10.45	9.92	13.97	13.04

TABLE DEL-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 - Delhi

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	0.19	0.18	0.25	0.25
142	Salivary Gland	0.04	0.04	0.06	0.06
143	Gum	0.06	0.06	0.09	0.09
144	Floor of Mouth	0.00	0.00	0.02	0.02
145	Other Mouth	0.16	0.16	0.19	0.19
146	Oropharynx	0.08	0.08	0.09	0.09
147	Nasopharynx	0.02	0.02	0.02	0.02
148	Hypopharynx	0.05	0.05	0.06	0.06
149	Pharynx Etc	0.02	0.02	0.02	0.02
150	Oesophagus	0.30	0.30	0.44	0.43
151	Stomach	0.18	0.18	0.24	0.24
152	Small Intestine	0.02	0.02	0.02	0.02
153	Colon	0.18	0.18	0.23	0.23
154	Rectum	0.14	0.14	0.17	0.17
155	Liver	0.10	0.10	0.12	0.12
156	Gall Bladder	0.92	0.91	1.24	1.24
157	Pancreas	0.12	0.12	0.17	0.17
158	Retroperitoneum	0.03	0.03	0.06	0.06
159	Other Dig Sys	0.01	0.01	0.01	0.01
160	Nasal Cavity	0.02	0.02	0.02	0.02
161	Larynx	0.11	0.11	0.16	0.16
162	Lung	0.29	0.29	0.38	0.38
163	Pleura	0.02	0.02	0.02	0.02
164	Thymus	0.01	0.01	0.01	0.01
165	Other Resp	0.00	0.00	0.00	0.00
170	Bone	0.08	0.08	0.09	0.09
171	Conn Tissue	0.14	0.14	0.15	0.15
172	Skin Melanoma	0.03	0.03	0.05	0.05
173	Skin Other	0.09	0.09	0.13	0.13
174	Breast Female	2.91	2.87	3.43	3.37
179	Uterine Un	0.08	0.08	0.10	0.10
180	Cervix Uteri	2.09	2.06	2.45	2.42
181	Placenta	0.02	0.02	0.02	0.02
182	Body Uterus	0.34	0.34	0.45	0.44
183	Ovary	0.93	0.93	1.12	1.12
184	Vagina	0.07	0.07	0.11	0.11
188	Uri Bladder	0.14	0.14	0.23	0.23
189	Kidney	0.10	0.10	0.12	0.12
190	Eye	0.01	0.01	0.01	0.01
191	Brain	0.24	0.24	0.28	0.28
192	Nervous System	0.00	0.00	0.00	0.00
193	Thyroid Gland	0.19	0.19	0.22	0.22
194	Oth Endo Gland	0.02	0.02	0.02	0.02
195	Ill Def Sites	0.08	0.08	0.11	0.11
196	Sec Lymph Node	0.07	0.07	0.12	0.12
197	Sec Res Etc	0.15	0.15	0.21	0.21
198	Sec Other	0.08	0.08	0.10	0.10
199	Primary Unk	0.47	0.47	0.65	0.65
200	Lymphosarcoma	0.00	0.00	0.01	0.01
201	Hodgkins Dis	0.05	0.05	0.05	0.05
202	Oth Lymphoma	0.28	0.28	0.30	0.30
203	Mult Myeloma	0.14	0.14	0.21	0.21
204	Leuk Lymphatic	0.12	0.12	0.15	0.15
205	Leuk Myelocytic	0.17	0.16	0.20	0.20
206	Leuk Monocytic	0.00	0.00	0.00	0.00
207	Leuk Misc	0.00	0.00	0.01	0.01
208	Leuk Uns	0.03	0.03	0.03	0.03
	ALL SITES	12.21	11.49	15.23	14.13