

Chapter 9

HEAD AND NECK CANCERS

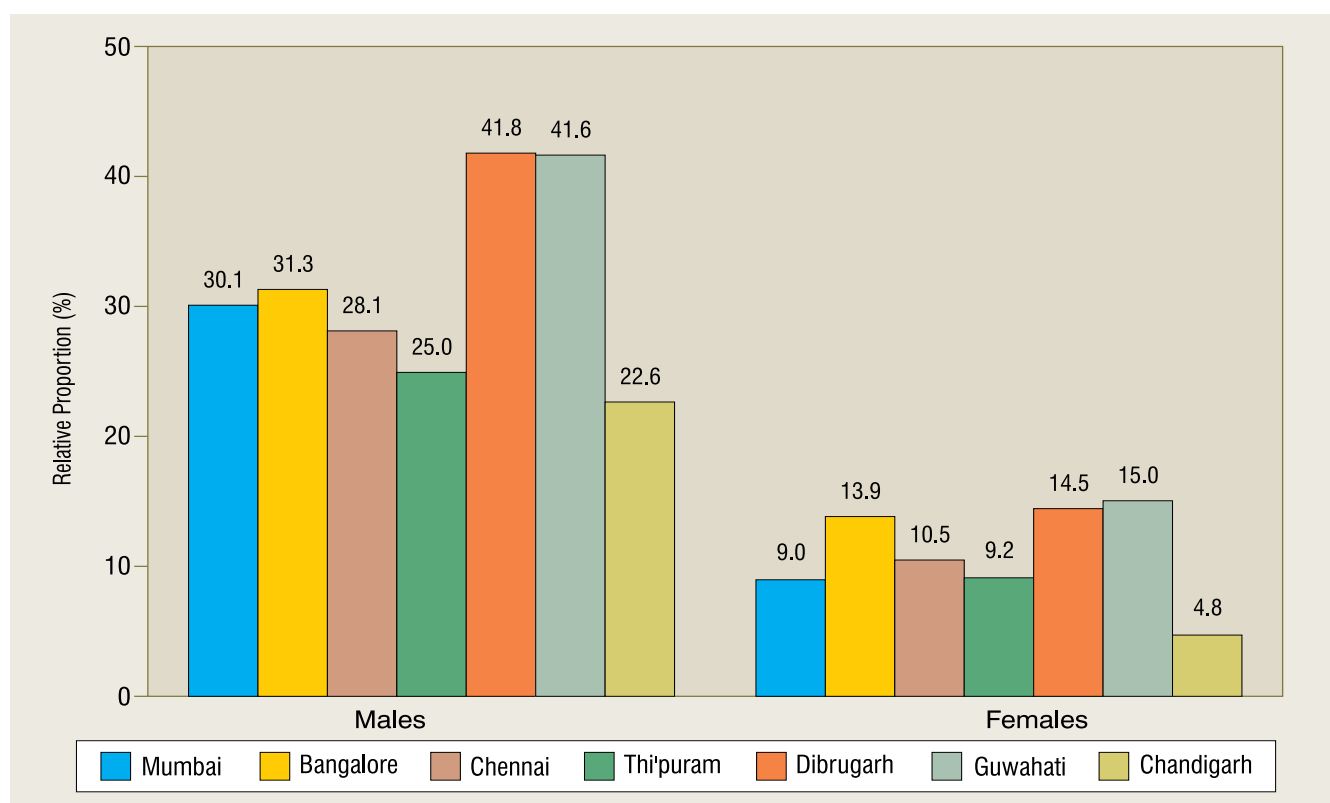
Chapter 9 gives the comprehensive picture of head and neck cancers. These include cancers of tongue, mouth, nasopharynx, pharynx and larynx.

Table 9.1 gives the number and relative proportion of head and neck cancers relative to all sites of cancers. Overall, head and neck cancers accounted for around 30% of all cancers in males. In females, head and neck cancers ranged from 4.8% in Chandigarh to 15.0% in Guwahati of all sites of cancers.

Table 9.2 and Figure 9.1 depict the relative proportion of specific sites of head and neck cancers relative to all sites of cancer. Table 9.3 and Fig. 9.2 give the number and relative proportion of specific sites that constitute head and neck cancers. In males tongue, mouth and other pharynx contributed to more than 80% of the total cases of head and neck cancers except in Chandigarh where it is around 72%. Among females mouth cancer was the leading contributor to head and neck cancers in all registries except in Chandigarh where the relative proportion of cancer of the tongue (38.0%) was higher than mouth cancer and in Dibrugarh the proportion of other pharynx was higher (37.7%) than mouth.

Table 9.1: Number (#) and Proportion (%) of Head and Neck Cancers Relative to All Sites of Cancer (2007-2011)

Registry	Males			Females		
	All Sites	#	%	All Sites	#	%
Mumbai	22580	6805	30.1	18528	1673	9.0
Bangalore	11273	3532	31.3	13125	1822	13.9
Chennai	15731	4427	28.1	17499	1832	10.5
Thi'puram	19219	4798	25.0	18809	1726	9.2
Dibrugarh	2895	1211	41.8	2276	329	14.5
Guwahati	6803	2830	41.6	4679	702	15.0
Chandigarh	2643	598	22.6	2092	100	4.8
Total	81144	24201	29.8	77008	8184	10.6

Fig. 9.1: Proportion (%) of Head and Neck Cancers Relative to All Sites (2007-2011)**Table 9.2: Number (#) and Relative Proportion (%) of Specific Head and Neck Cancers Relative to All Sites of Cancer (2007-2011)**

Sites of Cancer	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Tongue	1603	7.1	754	6.7	1061	6.7	1214	6.3	164	5.7	472	6.9	192	7.3
Mouth	2776	12.3	731	6.5	1351	8.6	1593	8.3	257	8.9	545	8.0	94	3.6
Nasopharynx	172	0.8	61	0.5	155	1.0	127	0.7	31	1.1	75	1.1	27	1.0
Other Pharynx	1413	6.3	1539	13.7	1261	8.0	1098	5.7	653	22.6	1356	19.9	145	5.5
Larynx	841	3.7	447	4.0	599	3.8	766	4.0	106	3.7	382	5.6	140	5.3
Head and Neck	6805	30.1	3532	31.3	4427	28.1	4798	25.0	1211	41.8	2830	41.6	598	22.6
All Sites	22580	100.0	11273	100.0	15731	100.0	19219	100.0	2895	100.0	6803	100.0	2643	100.0
FEMALES														
Tongue	452	2.4	163	1.2	305	1.7	548	2.9	51	2.2	135	2.9	38	1.8
Mouth	815	4.4	1354	10.3	914	5.2	889	4.7	116	5.1	251	5.4	18	0.9
Nasopharynx	54	0.3	25	0.2	55	0.3	69	0.4	14	0.6	23	0.5	5	0.2
Other Pharynx	281	1.5	239	1.8	494	2.8	178	0.9	124	5.4	234	5.0	25	1.2
Larynx	71	0.4	41	0.3	64	0.4	42	0.2	24	1.1	59	1.3	14	0.7
Head and Neck	1673	9.0	1822	13.9	1832	10.5	1726	9.2	329	14.5	702	15.0	100	4.8
All Sites	18528	100.0	13125	100.0	17499	100.0	18809	100.0	2276	100.0	4679	100.0	2092	100.0

Table 9.3: Number (#) and Relative Proportion (%) of Specific Head and Neck Sites Relative to All Head and Neck Cancers (2007-2011)

Sites of Cancer	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Tongue	1603	23.6	754	21.3	1061	24.0	1214	25.3	164	13.5	472	16.7	192	32.1
Mouth	2776	40.8	731	20.7	1351	30.5	1593	33.2	257	21.2	545	19.3	94	15.7
Nasopharynx	172	2.5	61	1.7	155	3.5	127	2.6	31	2.6	75	2.7	27	4.5
Other Pharynx	1413	20.8	1539	43.6	1261	28.5	1098	22.9	653	53.9	1356	47.9	145	24.2
Larynx	841	12.4	447	12.7	599	13.5	766	16.0	106	8.8	382	13.5	140	23.4
Head and Neck	6805	100.0	3532	100.0	4427	100.0	4798	100.0	1211	100.0	2830	100.0	598	100.0
FEMALES														
Tongue	452	27.0	163	8.9	305	16.6	548	31.7	51	15.5	135	19.2	38	38.0
Mouth	815	48.7	1354	74.3	914	49.9	889	51.5	116	35.3	251	35.8	18	18.0
Nasopharynx	54	3.2	25	1.4	55	3.0	69	4.0	14	4.3	23	3.3	5	5.0
Other Pharynx	281	16.8	239	13.1	494	27.0	178	10.3	124	37.7	234	33.3	25	25.0
Larynx	71	4.2	41	2.3	64	3.5	42	2.4	24	7.3	59	8.4	14	14.0
Head and Neck	1673	100.0	1822	100.0	1832	100.0	1726	100.0	329	100.0	702	100.0	100	100.0

Fig. 9.2: Stack (100%) Diagram Showing Proportion (%) of Specific Head and Neck Cancer Sites Relative to All Head and Neck Cancers (2007-2011)

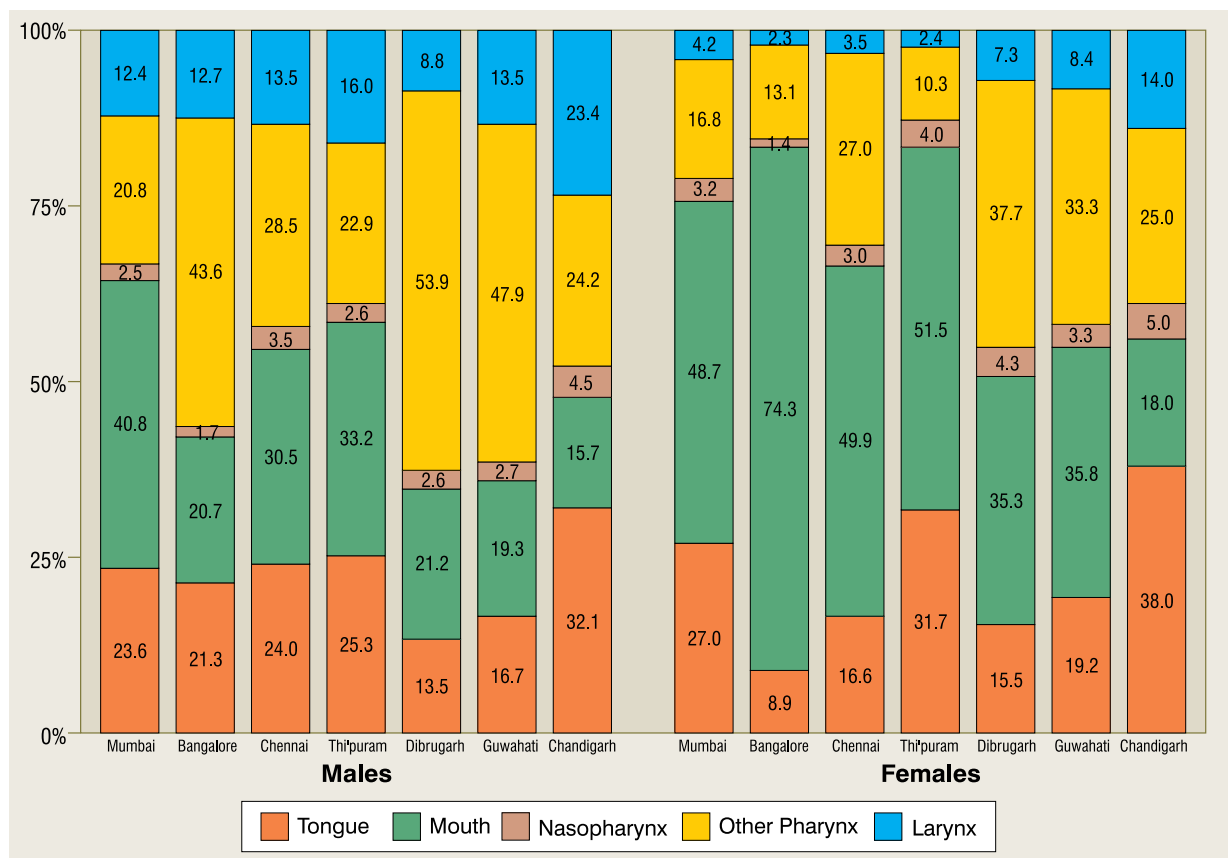


Table 9.4: Number (#) and Relative Proportion (%) of Head and Neck Cancers by Five-Year Age Group

Males

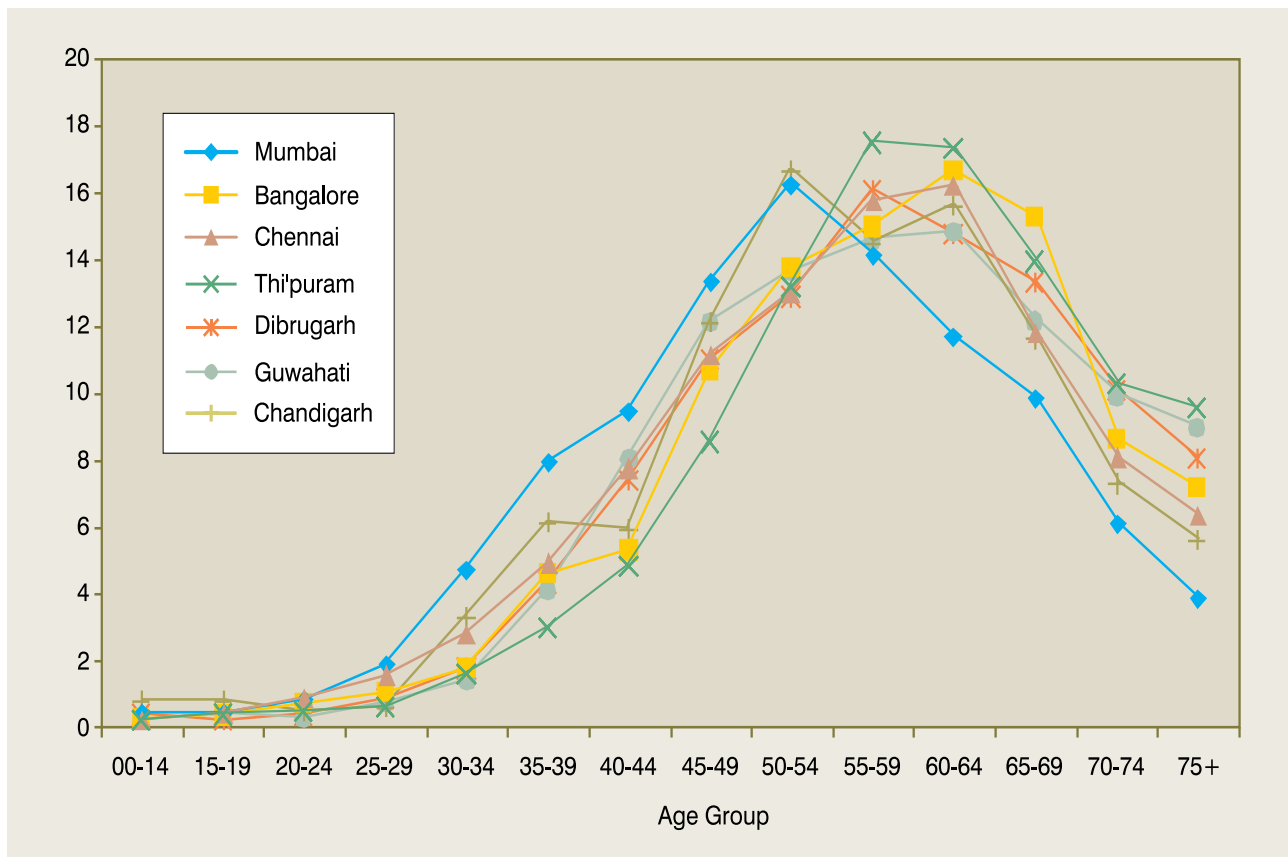
Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	3	0.0	2	0.1	1	0.0	-	-	1	0.1	-	-	-	-
05-09	3	0.0	-	-	-	-	1	0.0	1	0.1	1	0.0	1	0.2
10-14	17	0.2	3	0.1	5	0.1	4	0.1	1	0.1	2	0.1	3	0.5
15-19	23	0.3	9	0.3	16	0.4	12	0.3	1	0.1	7	0.2	4	0.7
20-24	52	0.8	22	0.6	36	0.8	17	0.4	3	0.2	4	0.1	2	0.3
25-29	122	1.8	33	0.9	64	1.4	23	0.5	9	0.7	18	0.6	3	0.5
30-34	316	4.6	59	1.7	121	2.7	71	1.5	20	1.7	36	1.3	19	3.2
35-39	536	7.9	160	4.5	213	4.8	137	2.9	51	4.2	113	4.0	36	6.0
40-44	639	9.4	184	5.2	339	7.7	227	4.7	88	7.3	225	8.0	35	5.9
45-49	904	13.3	374	10.6	492	11.1	405	8.4	132	10.9	341	12.0	72	12.0
50-54	1101	16.2	483	13.7	573	12.9	629	13.1	155	12.8	384	13.6	99	16.6
55-59	960	14.1	527	14.9	696	15.7	836	17.4	194	16.0	411	14.5	86	14.4
60-64	791	11.6	586	16.6	717	16.2	828	17.3	178	14.7	417	14.7	93	15.6
65-69	667	9.8	538	15.2	522	11.8	665	13.9	160	13.2	342	12.1	69	11.5
70-74	412	6.1	301	8.5	353	8.0	488	10.2	121	10.0	278	9.8	43	7.2
75+	259	3.8	251	7.1	279	6.3	455	9.5	96	7.9	251	8.9	33	5.5
All Ages	6805	100.0	3532	100.0	4427	100.0	4798	100.0	1211	100.0	2830	100.0	598	100.0

Females

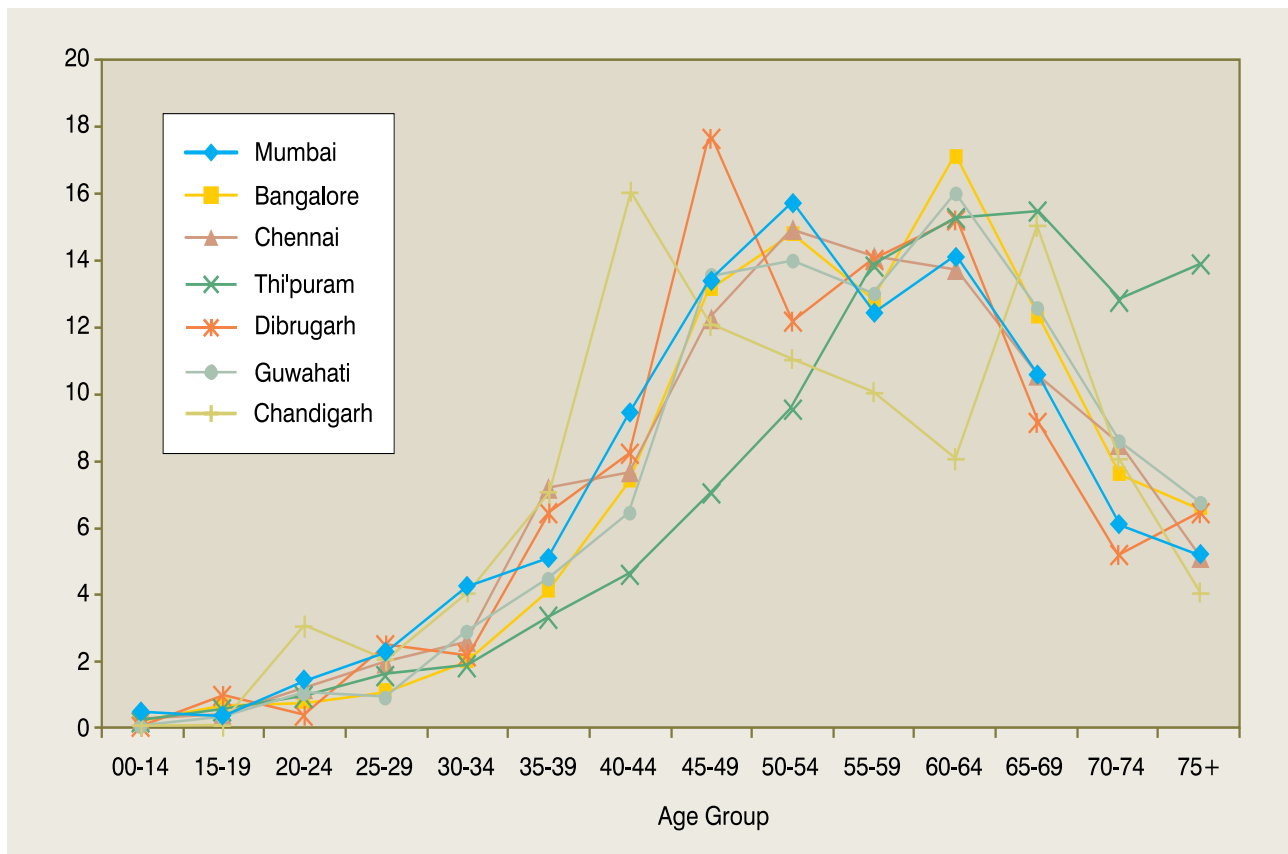
Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	3	0.2	-	-	-	-	-	-	-	-	-	-	-	-
05-09	1	0.1	-	-	1	0.1	-	-	-	-	-	-	-	-
10-14	3	0.2	3	0.2	3	0.2	2	0.1	-	-	-	-	-	-
15-19	5	0.3	11	0.6	7	0.4	8	0.5	3	0.9	2	0.3	-	-
20-24	23	1.4	13	0.7	21	1.1	15	0.9	1	0.3	7	1.0	3	3.0
25-29	37	2.2	19	1.0	35	1.9	26	1.5	8	2.4	6	0.9	2	2.0
30-34	70	4.2	35	1.9	47	2.6	31	1.8	7	2.1	20	2.8	4	4.0
35-39	84	5.0	74	4.1	131	7.2	56	3.2	21	6.4	31	4.4	7	7.0
40-44	157	9.4	134	7.4	140	7.6	78	4.5	27	8.2	45	6.4	16	16.0
45-49	223	13.3	239	13.1	224	12.2	120	7.0	58	17.6	95	13.5	12	12.0
50-54	262	15.7	269	14.8	273	14.9	164	9.5	40	12.2	98	14.0	11	11.0
55-59	207	12.4	233	12.8	258	14.1	238	13.8	46	14.0	91	13.0	10	10.0
60-64	235	14.0	311	17.1	251	13.7	263	15.2	50	15.2	112	16.0	8	8.0
65-69	176	10.5	224	12.3	193	10.5	266	15.4	30	9.1	88	12.5	15	15.0
70-74	101	6.0	138	7.6	155	8.5	220	12.7	17	5.2	60	8.5	8	8.0
75+	86	5.1	119	6.5	93	5.1	239	13.8	21	6.4	47	6.7	4	4.0
All Ages	1673	100.0	1822	100.0	1832	100.0	1726	100.0	329	100.0	702	100.0	100	100.0

Fig. 9.3: Relative Proportion (%) of Head and Neck Cancers by Five-Year Age Group (2007-2011)

Males



Females



TONGUE (ICD-10: C01-C02)

Cancer of the Tongue is an important site contributing a quarter of all head and neck cancers. Cancer of the tongue was among the five leading sites in all HBCRs among males and in females it was among the ten leading sites in Mumbai, Thiruvananthapuram, Dibrugarh and Guwahati.

Table 9.5 gives the number and relative proportion of cancers of tongue to all sites. Table 9.6 shows the distribution of tongue cancers by five year age group. The predominant form of diagnosis of cancer was through microscopic examination (Table 9.7). Table 9.8 gives the relative proportion of tongue cancer according to broad groups of treatment.

Table 9.9 gives the distribution of tongue cancer according to the clinical extent of disease. The regional spread of the disease varied from 43.6% in Mumbai to 96.1% in Dibrugarh.

Table 9.10 gives the picture of the types of treatment given to these patients.

**Table 9.5: Number (#) and Relative Proportion (%) (Relative to All Sites) (2007-2011)
Tongue (ICD-10: C01-C02)**

Registry	Males			Females		
	Total	#	%	Total	#	%
Mumbai	22580	1603	7.1	18528	452	2.4
Bangalore	11273	754	6.7	13125	163	1.2
Chennai	15731	1061	6.7	17499	305	1.7
Thi'puram	19219	1214	6.3	18809	548	2.9
Dibrugarh	2895	164	5.7	2276	51	2.2
Guwahati	6803	472	6.9	4679	135	2.9
Chandigarh	2643	192	7.3	2092	38	1.8

Table 9.6: Number (#) and Relative Proportion (%) according to Five-Year Age Group (2007-2011) - Tongue (ICD-10: C01-C02)**Males**

Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	1	0.1	-	-	-	-	-	-	-	-	-	-	-	-
05-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	2	0.1	2	0.3	1	0.1	2	0.2	-	-	-	-	-	-
20-24	15	0.9	8	1.1	3	0.3	2	0.2	1	0.6	-	-	1	0.5
25-29	48	3.0	11	1.5	14	1.3	10	0.8	-	-	3	0.6	1	0.5
30-34	124	7.7	16	2.1	45	4.2	36	3.0	3	1.8	5	1.1	11	5.7
35-39	185	11.5	36	4.8	62	5.8	63	5.2	6	3.7	18	3.8	15	7.8
40-44	175	10.9	46	6.1	101	9.5	95	7.8	11	6.7	45	9.5	11	5.7
45-49	218	13.6	84	11.1	139	13.1	138	11.4	18	11.0	60	12.7	25	13.0
50-54	245	15.3	109	14.5	150	14.1	172	14.2	16	9.8	63	13.3	27	14.1
55-59	205	12.8	113	15.0	154	14.5	191	15.7	31	18.9	55	11.7	23	12.0
60-64	144	9.0	123	16.3	182	17.2	192	15.8	23	14.0	77	16.3	32	16.7
65-69	120	7.5	108	14.3	108	10.2	142	11.7	23	14.0	62	13.1	19	9.9
70-74	68	4.2	54	7.2	56	5.3	89	7.3	15	9.1	40	8.5	16	8.3
75+	53	3.3	44	5.8	46	4.3	82	6.8	17	10.4	44	9.3	11	5.7
All Ages	1603	100.0	754	100.0	1061	100.0	1214	100.0	164	100.0	472	100.0	192	100.0

Females

Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	1	0.2	2	1.2	1	0.3	2	0.4	-	-	-	-	-	-
20-24	7	1.5	-	-	2	0.7	4	0.7	-	-	1	0.7	1	2.6
25-29	6	1.3	6	3.7	3	1.0	8	1.5	-	-	1	0.7	1	2.6
30-34	23	5.1	3	1.8	5	1.6	11	2.0	1	2.0	7	5.2	-	-
35-39	24	5.3	11	6.7	24	7.9	20	3.6	4	7.8	7	5.2	1	2.6
40-44	50	11.1	10	6.1	30	9.8	32	5.8	1	2.0	11	8.1	8	21.1
45-49	67	14.8	25	15.3	41	13.4	48	8.8	15	29.4	17	12.6	6	15.8
50-54	73	16.2	19	11.7	51	16.7	57	10.4	4	7.8	16	11.9	4	10.5
55-59	61	13.5	18	11.0	40	13.1	85	15.5	6	11.8	13	9.6	4	10.5
60-64	60	13.3	22	13.5	42	13.8	78	14.2	13	25.5	17	12.6	2	5.3
65-69	40	8.8	27	16.6	21	6.9	66	12.0	3	5.9	19	14.1	6	15.8
70-74	18	4.0	9	5.5	29	9.5	69	12.6	2	3.9	14	10.4	3	7.9
75+	22	4.9	11	6.7	16	5.2	68	12.4	2	3.9	12	8.9	2	5.3
All Ages	452	100.0	163	100.0	305	100.0	548	100.0	51	100.0	135	100.0	38	100.0

Table 9.7: Number (#) and Relative Proportion (%) Based on Different Methods of Diagnosis (2007-2011) - Tongue (ICD-10: C01-C02)

Registry	Microscopic		Clinical		All Imaging Techniques		Others		Unknown		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
MALES												
Mumbai	1521	94.9	4	0.2	78	4.9	-	-	-	-	1603	100.0
Bangalore	708	93.9	2	0.3	27	3.6	-	-	17	2.3	754	100.0
Chennai	795	74.9	2	0.2	264	24.9	-	-	-	-	1061	100.0
Thi'puram	1171	96.5	-	-	41	3.4	1	0.1	1	0.1	1214	100.0
Dibrugarh	163	99.4	-	-	1	0.6	-	-	-	-	164	100.0
Guwahati	448	94.9	3	0.6	10	2.1	11	2.3	-	-	472	100.0
Chandigarh	192	100.0	-	-	-	-	-	-	-	-	192	100.0
FEMALES												
Mumbai	428	94.7	-	-	24	5.3	-	-	-	-	452	100.0
Bangalore	155	95.1	-	-	5	3.1	-	-	3	1.8	163	100.0
Chennai	225	73.8	-	-	80	26.2	-	-	-	-	305	100.0
Thi'puram	533	97.3	-	-	15	2.7	-	-	-	-	548	100.0
Dibrugarh	51	100.0	-	-	-	-	-	-	-	-	51	100.0
Guwahati	134	99.3	-	-	1	0.7	-	-	-	-	135	100.0
Chandigarh	37	97.4	1	2.6	-	-	-	-	-	-	38	100.0

Table 9.8: Number (#) and Relative Proportion (%) according to Broad Groups of Treatment (Tmt.) (2007-2011) - Tongue (ICD-10: C01-C02)

Treatment Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Prior Tmt. Only	154	9.6	41	5.4	131	12.3	52	4.3	2	1.2	15	3.2	4	2.1
Prior & Tmt. at RI	81	5.1	4	0.5	3	0.3	86	7.1	4	2.4	21	4.4	14	7.3
Tmt. Only at RI	628	39.2	326	43.2	356	33.6	906	74.6	145	88.4	299	63.3	154	80.2
No CDT*	740	46.2	383	50.8	571	53.8	170	14.0	13	7.9	137	29.0	20	10.4
Total Patients	1603	100.0	754	100.0	1061	100.0	1214	100.0	164	100.0	472	100.0	192	100.0
FEMALES														
Prior Tmt. Only	42	9.3	8	4.9	30	9.8	9	1.6	-	-	3	2.2	-	-
Prior & Tmt. at RI	20	4.4	5	3.1	4	1.3	45	8.2	-	-	5	3.7	6	15.8
Tmt. Only at RI	184	40.7	86	52.8	108	35.4	430	78.5	47	92.2	95	70.4	24	63.2
No CDT*	206	45.6	64	39.3	163	53.4	64	11.7	4	7.8	32	23.7	8	21.1
Total Patients	452	100.0	163	100.0	305	100.0	548	100.0	51	100.0	135	100.0	38	100.0

*CDT=Cancer Directed Treatment

Table 9.9: Number (#) and Relative Proportion (%) according to the Clinical Extent of Disease (Excludes Patients Previously Treated) (2007-2011) - Tongue (ICD-10: C01-C02)

Registry	Localised (L)		Regional (R)		L+R		Distant		Others		Unknown		All Stages	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Mumbai	263	19.2	663	48.5	926	67.7	8	0.6	1	0.1	433	31.7	1368	100.0
Bangalore	48	6.8	625	88.2	673	94.9	34	4.8	2	0.3	-	-	709	100.0
Chennai	113	12.2	809	87.3	922	99.5	4	0.4	1	0.1	-	-	927	100.0
Thi'puram	177	16.4	880	81.8	1057	98.2	18	1.7	1	0.1	-	-	1076	100.0
Dibrugarh	4	2.5	151	95.6	155	98.1	2	1.3	1	0.6	-	-	158	100.0
Guwahati	28	6.4	369	84.6	397	91.1	38	8.7	1	0.2	-	-	436	100.0
Chandigarh	5	2.9	154	88.5	159	91.4	13	7.5	2	1.1	-	-	174	100.0
FEMALES														
Mumbai	95	24.4	170	43.6	265	67.9	4	1.0	2	0.5	119	30.5	390	100.0
Bangalore	17	11.3	126	84.0	143	95.3	7	4.7	-	-	-	-	150	100.0
Chennai	44	16.2	226	83.4	270	99.6	1	0.4	-	-	-	-	271	100.0
Thi'puram	95	19.2	394	79.8	489	99.0	5	1.0	-	-	-	-	494	100.0
Dibrugarh	1	2.0	49	96.1	50	98.0	-	-	1	2.0	-	-	51	100.0
Guwahati	6	4.7	101	79.5	107	84.3	20	15.7	-	-	-	-	127	100.0
Chandigarh	3	9.4	26	81.3	29	90.6	3	9.4	-	-	-	-	32	100.0

“Diagnosis is not the end, but the beginning of practice.”

- Martin H. Fischer

Table 9.10: Number (#) and Relative Proportion (%) according to Type of Treatment given (2007-2011) - Tongue (ICD-10: C01-C02)**Males**

Type of Treatment	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total Patients	628	100.0	326	100.0	356	100.0	906	100.0	145	100.0	299	100.0	154	100.0
Specific Treatments														
Surgery (S)	160	25.5	34	10.4	4	1.1	255	28.1	2	1.4	3	1.0	1	0.6
Radiotherapy (R)	80	12.7	127	39.0	91	25.6	96	10.6	85	58.6	262	87.6	108	70.1
Chemotherapy (C)	17	2.7	18	5.5	2	0.6	80	8.8	3	2.1	-	-	2	1.3
S + R	175	27.9	28	8.6	28	7.9	195	21.5	2	1.4	22	7.4	11	7.1
S + C	3	0.5	3	0.9	1	0.3	19	2.1	4	2.8	-	-	-	-
R + C	109	17.4	102	31.3	200	56.2	139	15.3	48	33.1	10	3.3	27	17.5
S + R + C	84	13.4	14	4.3	30	8.4	119	13.1	1	0.7	2	0.7	5	3.2
Others	-	-	-	-	-	-	3	0.3	-	-	-	-	-	-
Modality of Therapy														
Single	257	40.9	179	54.9	97	27.2	431	47.6	90	62.1	265	88.6	111	72.1
Combination	371	59.1	147	45.1	259	72.8	472	52.1	55	37.9	34	11.4	43	27.9
Type of Any Treatment														
Any Surgery	422	67.3	79	24.2	63	17.7	588	64.8	9	6.3	27	9.1	17	10.9
Any R	448	71.4	271	83.2	349	98.1	549	60.5	136	93.8	296	99.0	151	97.9
Any C	213	34.0	137	42.0	233	65.5	357	39.3	56	38.7	12	4.0	34	22.0

Females

Type of Treatment	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total Patients	184	100.0	86	100.0	108	100.0	430	100.0	47	100.0	95	100.0	24	100.0
Specific Treatments														
Surgery (S)	76	41.3	17	19.8	2	1.9	152	35.3	-	-	3	3.2	-	-
Radiotherapy (R)	13	7.1	28	32.6	31	28.7	23	5.3	24	51.1	74	77.9	13	54.2
Chemotherapy (C)	6	3.3	8	9.3	-	-	56	13.0	1	2.1	1	1.1	-	-
S + R	62	33.7	16	18.6	13	12.0	116	27.0	-	-	12	12.6	3	12.5
S + C	-	-	2	2.3	-	-	5	1.2	1	2.1	-	-	-	-
R + C	3	1.6	11	12.8	54	50.0	31	7.2	21	44.7	4	4.2	6	25.0
S + R + C	24	13.0	4	4.7	8	7.4	46	10.7	-	-	1	1.1	2	8.3
Others	-	-	-	-	-	-	1	0.2	-	-	-	-	-	-
Modality of Therapy														
Single	95	51.6	53	61.6	33	30.6	231	53.7	25	53.2	78	82.1	13	54.2
Combination	89	48.4	33	38.4	75	69.4	198	46.0	22	46.8	17	17.9	11	45.8
Type of Any Treatment														
Any Surgery	162	88.0	39	45.4	23	21.3	319	74.2	1	2.1	16	16.9	5	20.8
Any R	102	55.4	59	68.7	106	98.1	216	50.2	45	95.8	91	95.8	24	100.0
Any C	33	17.9	25	29.1	62	57.4	138	32.1	23	48.9	6	6.4	8	33.3

MOUTH (ICD-10: C03-C06)

The total number and relative proportion of the cancers of mouth in males and females for the years (2007-2011) are given in Table 9.11. Cancer of the mouth was the leading site in Mumbai in males and was within the five leading sites in all registries in both males and females except in males and females in Chandigarh and in females in Dibrugarh.

Table 9.12 shows the distribution of mouth cancers by five year age group. The predominant form of diagnosis of cancer (>92%) was through microscopic examination (Table 9.13) except in Chennai where the proportion of microscopically diagnosed patients was 70.2% among males and 64.1% among females. Table 9.14 gives the relative proportion of mouth cancer according to broad groups of treatment.

Table 9.15 gives the distribution of mouth cancer according to the clinical extent of disease. The regional spread of the disease varied from 54.8% in Mumbai males to 96.5% in Dibrugarh females. Table 9.16 gives the picture of the types of treatment given to these patients.

**Table 9.11: Number (#) and Relative Proportion (%) (2007-2011)
Mouth (ICD-10: C03-C06)**

Registry	Males			Females		
	Total	#	%	Total	#	%
Mumbai	22580	2776	12.3	18528	815	4.4
Bangalore	11273	731	6.5	13125	1354	10.3
Chennai	15731	1351	8.6	17499	914	5.2
Thi'puram	19219	1593	8.3	18809	889	4.7
Dibrugarh	2895	257	8.9	2276	116	5.1
Guwahati	6803	545	8.0	4679	251	5.4
Chandigarh	2643	94	3.6	2092	18	0.9

Table 9.12: Number (#) and Relative Proportion (%) according to Five-Year Age Group (2007-2011) - Mouth (ICD-10: C03-C06)**Males**

Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	-	-	-	-	-	-	-	-	1	0.4	-	-	-	-
05-09	1	0.0	-	-	-	-	1	0.1	-	-	-	-	-	-
10-14	1	0.0	-	-	-	-	1	0.1	-	-	-	-	-	-
15-19	4	0.1	-	-	-	-	-	-	1	0.4	2	0.4	-	-
20-24	14	0.5	2	0.3	5	0.4	-	-	-	-	2	0.4	-	-
25-29	55	2.0	12	1.6	19	1.4	5	0.3	3	1.2	7	1.3	1	1.1
30-34	152	5.5	29	4.0	42	3.1	17	1.1	4	1.6	10	1.8	3	3.2
35-39	292	10.5	48	6.6	94	7.0	42	2.6	12	4.7	24	4.4	16	17.0
40-44	337	12.1	58	7.9	125	9.3	61	3.8	25	9.7	54	9.9	8	8.5
45-49	410	14.8	88	12.0	154	11.4	123	7.7	29	11.3	70	12.8	11	11.7
50-54	459	16.5	87	11.9	176	13.0	192	12.1	29	11.3	74	13.6	17	18.1
55-59	362	13.0	115	15.7	207	15.3	283	17.8	46	17.9	75	13.8	12	12.8
60-64	278	10.0	101	13.8	198	14.7	275	17.3	40	15.6	92	16.9	13	13.8
65-69	220	7.9	100	13.7	139	10.3	225	14.1	31	12.1	59	10.8	6	6.4
70-74	120	4.3	37	5.1	114	8.4	184	11.6	24	9.3	40	7.3	5	5.3
75+	69	2.5	54	7.4	78	5.8	184	11.6	12	4.7	36	6.6	2	2.1
Unk. Age	2	0.1	-	-	-	-	-	-	-	-	-	-	-	-
All Ages	2776	100.0	731	100.0	1351	100.0	1593	100.0	257	100.0	545	100.0	94	100.0

Females

Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	1	0.1	-	-	-	-	-	-	-	-	-	-	-	-
05-09	1	0.1	-	-	-	-	-	-	-	-	-	-	-	-
10-14	1	0.1	-	-	-	-	1	0.1	-	-	-	-	-	-
15-19	1	0.1	1	0.1	-	-	-	-	1	0.9	1	0.4	-	-
20-24	6	0.7	5	0.4	3	0.3	1	0.1	-	-	3	1.2	1	5.6
25-29	15	1.8	4	0.3	10	1.1	4	0.4	3	2.6	2	0.8	1	5.6
30-34	29	3.6	24	1.8	10	1.1	5	0.6	2	1.7	9	3.6	1	5.6
35-39	31	3.8	41	3.0	38	4.2	12	1.3	9	7.8	11	4.4	1	5.6
40-44	72	8.8	99	7.3	53	5.8	20	2.2	8	6.9	17	6.8	2	11.1
45-49	105	12.9	176	13.0	88	9.6	45	5.1	19	16.4	34	13.5	1	5.6
50-54	138	16.9	212	15.7	133	14.6	76	8.5	15	12.9	35	13.9	3	16.7
55-59	99	12.1	179	13.2	141	15.4	110	12.4	20	17.2	36	14.3	-	-
60-64	119	14.6	253	18.7	148	16.2	147	16.5	17	14.7	36	14.3	-	-
65-69	93	11.4	165	12.2	129	14.1	174	19.6	7	6.0	30	12.0	5	27.8
70-74	59	7.2	110	8.1	97	10.6	136	15.3	7	6.0	27	10.8	2	11.1
75+	45	5.5	85	6.3	64	7.0	157	17.7	8	6.9	10	4.0	1	5.6
Unk. Age	-	-	-	-	-	-	1	0.1	-	-	-	-	-	-
All Ages	815	100.0	1354	100.0	914	100.0	889	100.0	116	100.0	251	100.0	18	100.0

Unk. Age = Unknown Age

Table 9.13: Number (#) and Relative Proportion (%) Based on Different Methods of Diagnosis (2007-2011) - Mouth (ICD-10: C03-C06)

Registry	Microscopic		Clinical		All Imaging Techniques		Others		Unknown		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
MALES												
Mumbai	2660	95.8	2	0.1	114	4.1	-	-	-	-	2776	100.0
Bangalore	695	95.1	25	3.4	-	-	-	-	11	1.5	731	100.0
Chennai	948	70.2	385	28.5	12	0.9	6	0.4	-	-	1351	100.0
Thi'puram	1518	95.3	70	4.4	3	0.2	1	0.1	1	0.1	1593	100.0
Dibrugarh	255	99.2	2	0.8	-	-	-	-	-	-	257	100.0
Guwahati	535	98.2	10	1.8	-	-	-	-	-	-	545	100.0
Chandigarh	94	100.0	-	-	-	-	-	-	-	-	94	100.0
FEMALES												
Mumbai	794	97.4	-	-	21	2.6	-	-	-	-	815	100.0
Bangalore	1296	95.7	49	3.6	1	0.1	1	0.1	7	0.5	1354	100.0
Chennai	586	64.1	320	35.0	7	0.8	1	0.1	-	-	914	100.0
Thi'puram	825	92.8	62	7.0	2	0.2	-	-	-	-	889	100.0
Dibrugarh	114	98.3	1	0.9	1	0.9	-	-	-	-	116	100.0
Guwahati	248	98.8	3	1.2	-	-	-	-	-	-	251	100.0
Chandigarh	18	100.0	-	-	-	-	-	-	-	-	18	100.0

Table 9.14: Number (#) and Relative Proportion (%) according to Broad Groups of Treatment (Tmt.) (2007-2011) - Mouth (ICD-10: C03-C06)

Treatment Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Prior Tmt. Only	223	8.0	26	3.6	159	11.8	67	4.2	-	-	26	4.8	2	2.1
Prior & Tmt. at RI	125	4.5	12	1.6	4	0.3	73	4.6	16	6.2	54	9.9	8	8.5
Tmt. Only at RI	1121	40.4	338	46.2	424	31.4	1204	75.6	214	83.3	305	56.0	67	71.3
No CDT*	1307	47.1	355	48.6	764	56.6	249	15.6	27	10.5	160	29.4	17	18.1
Total Patients	2776	100.0	731	100.0	1351	100.0	1593	100.0	257	100.0	545	100.0	94	100.0
FEMALES														
Prior Tmt. Only	42	5.2	42	3.1	88	9.6	33	3.7	-	-	9	3.6	2	11.1
Prior & Tmt. at RI	28	3.4	21	1.6	1	0.1	37	4.2	3	2.6	22	8.8	1	5.6
Tmt. Only at RI	304	37.3	659	48.7	268	29.3	671	75.5	95	81.9	135	53.8	13	72.2
No CDT*	441	54.1	632	46.7	557	60.9	148	16.6	18	15.5	85	33.9	2	11.1
Total Patients	815	100.0	1354	100.0	914	100.0	889	100.0	116	100.0	251	100.0	18	100.0

*CDT=Cancer Directed Treatment

Table 9.15: Number (#) and Relative Proportion (%) according to the Clinical Extent of Disease (Excludes Patients Previously Treated) (2007-2011) - Mouth (ICD-10: C03-C06)

Registry	Localised (L)		Regional (R)		L+R		Distant		Others		Unknown		All Stages	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Mumbai	271	11.2	1331	54.8	1602	66.0	16	0.7	1	0.0	809	33.3	2428	100.0
Bangalore	65	9.4	588	84.8	653	94.2	39	5.6	1	0.1	-	-	693	100.0
Chennai	72	6.1	1105	93.0	1177	99.1	10	0.8	1	0.1	-	-	1188	100.0
Thi'puram	102	7.0	1334	91.8	1436	98.8	17	1.2	-	-	-	-	1453	100.0
Dibrugarh	5	2.1	228	94.6	233	96.7	6	2.5	2	0.8	-	-	241	100.0
Guwahati	74	15.9	332	71.4	406	87.3	58	12.5	1	0.2	-	-	465	100.0
Chandigarh	4	4.8	69	82.1	73	86.9	9	10.7	2	2.4	-	-	84	100.0
FEMALES														
Mumbai	68	9.1	417	56.0	485	65.1	6	0.8	1	0.1	253	34.0	745	100.0
Bangalore	87	6.7	1115	86.4	1202	93.1	87	6.7	2	0.2	-	-	1291	100.0
Chennai	36	4.4	784	95.0	820	99.4	5	0.6	-	-	-	-	825	100.0
Thi'puram	54	6.6	756	92.3	810	98.9	9	1.1	-	-	-	-	819	100.0
Dibrugarh	2	1.8	109	96.5	111	98.2	1	0.9	1	0.9	-	-	113	100.0
Guwahati	14	6.4	153	69.5	167	75.9	53	24.1	-	-	-	-	220	100.0
Chandigarh	2	13.3	13	86.7	15	100.0	-	-	-	-	-	-	15	100.0

“Drugs are not always necessary. But belief in recovery always is.”

- Norman Cousins

Table 9.16: Number (#) and Relative Proportion (%) according to Type of Treatment Given (Patients Treated Only at Reporting Institution) (2007-2011) - Mouth (ICD-10: C03-C06)**Males**

Type of Treatment	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total Patients	1121	100.0	338	100.0	424	100.0	1204	100.0	214	100.0	305	100.0	67	100.0
Specific Treatments														
Surgery (S)	269	24.0	46	13.6	8	1.9	64	5.3	5	2.3	43	14.1	2	3.0
Radiotherapy (R)	64	5.7	138	40.8	91	21.5	410	34.1	139	65.0	109	35.7	41	61.2
Chemotherapy (C)	88	7.9	47	13.9	-	-	87	7.2	5	2.3	4	1.3	-	-
S + R	464	41.4	37	10.9	12	2.8	189	15.7	15	7.0	142	46.6	15	22.4
S + C	7	0.6	7	2.1	-	-	12	1.0	1	0.5	-	-	-	-
R + C	62	5.5	45	13.3	276	65.1	342	28.4	45	21.0	6	2.0	7	10.4
S + R + C	167	14.9	17	5.0	37	8.7	96	8.0	4	1.9	1	0.3	2	3.0
Others	-	-	1	0.3	-	-	4	0.3	-	-	-	-	-	-
Modality of Therapy														
Single	421	37.6	232	68.6	99	23.3	561	46.6	149	69.6	156	51.1	43	64.2
Combination	700	62.4	106	31.4	325	76.7	639	53.1	65	30.4	149	48.9	24	35.8
Type of Any Treatment														
Any S	907	80.9	107	31.7	57	13.4	361	30.0	25	11.7	186	61.0	19	28.4
Any R	757	67.5	237	70.1	416	98.1	1037	86.1	203	94.9	258	84.6	65	97.0
Any C	324	28.9	116	34.3	313	73.8	537	44.6	55	25.7	11	3.6	9	13.4

Females

Type of Treatment	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total Patients	304	100.0	659	100.0	268	100.0	671	100.0	95	100.0	135	100.0	13	100.0
Specific Treatments														
Surgery (S)	106	34.9	124	18.8	5	1.9	29	4.3	4	4.2	15	11.1	-	-
Radiotherapy (R)	23	7.6	180	27.3	70	26.1	272	40.5	68	71.6	57	42.2	10	76.9
Chemotherapy (C)	20	6.6	118	17.9	1	0.4	57	8.5	1	1.1	3	2.2	-	-
S + R	129	42.4	110	16.7	14	5.2	112	16.7	2	2.1	55	40.7	2	15.4
S + C	2	0.7	23	3.5	-	-	5	0.7	3	3.2	-	-	-	-
R + C	3	1.0	68	10.3	146	54.5	158	23.5	15	15.8	4	3.0	1	7.7
S + R + C	21	6.9	35	5.3	32	11.9	35	5.2	2	2.1	1	0.7	-	-
Others	-	-	1	0.2	-	-	3	0.4	-	-	-	-	-	-
Modality of Therapy														
Single	149	49.0	422	64.0	76	28.4	358	53.4	73	76.8	75	55.6	10	76.9
Combination	155	51.0	237	36.0	192	71.6	310	46.2	22	23.2	60	44.4	3	23.1
Type of Any Treatment														
Any S	258	23.0	293	86.7	51	12.0	181	15.0	11	5.1	71	23.3	2	3.0
Any R	176	15.7	393	116.3	262	61.8	577	47.9	87	40.7	117	38.4	13	19.4
Any C	46	4.1	244	72.2	179	42.2	255	21.2	21	9.8	8	2.6	1	1.5

NASOPHARYNX (ICD-10: C11)

The total number, relative proportion of cancer of the nasopharynx in males and females for the years (2007-2011) are given in Table 9.17. The range of contribution of nasopharyngeal cancer to all sites varies from 0.2% in Chandigarh females to 1.1% among males in Dibrugarh and Guwahati.

Table 9.18 shows the distribution of nasopharyngeal cancers by five year age group. The predominant form of diagnosis of cancer was through microscopic examination (Table 9.19). Table 9.20 gives the relative proportion of nasopharyngeal cancer according to broad groups of treatment.

Table 9.21 gives the distribution of cancer of the nasopharynx according to the clinical extent of disease. The regional spread of the disease varied from 42.9% in Mumbai females to 100% in females in Dibrugarh, Guwahati and Chandigarh.

Table 9.22 gives the picture of the types of treatment given to these patients.

**Table 9.17: Number (#) and Relative Proportion (%) to All Sites of Cancers (2007-2011)
Nasopharynx (ICD-10: C11)**

Registry	Males			Females		
	All Sites	#	%	All Sites	#	%
Mumbai	22580	172	0.8	18528	54	0.3
Bangalore	11273	61	0.5	13125	25	0.2
Chennai	15731	155	1.0	17499	55	0.3
Thi'puram	19219	127	0.7	18809	69	0.4
Dibrugarh	2895	31	1.1	2276	14	0.6
Guwahati	6803	75	1.1	4679	23	0.5
Chandigarh	2643	27	1.0	2092	5	0.2

Table 9.18: Number (#) and Relative Proportion (%) according to Five-Year Age Group (2007-2011) - Nasopharynx (ICD-10: C11)**Males**

Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	1	0.6	2	3.3	-	-	-	-	-	-	-	-	-	-
05-09	2	1.2	-	-	-	-	-	-	1	3.2	1	1.3	1	3.7
10-14	16	9.3	2	3.3	5	3.2	3	2.4	1	3.2	2	2.7	3	11.1
15-19	14	8.1	6	9.8	11	7.1	10	7.9	-	-	5	6.7	4	14.8
20-24	20	11.6	7	11.5	18	11.6	13	10.2	2	6.5	2	2.7	0	0.0
25-29	10	5.8	1	1.6	7	4.5	6	4.7	1	3.2	3	4.0	1	3.7
30-34	10	5.8	4	6.6	6	3.9	6	4.7	3	9.7	6	8.0	-	-
35-39	6	3.5	7	11.5	4	2.6	8	6.3	4	12.9	6	8.0	1	3.7
40-44	19	11.0	1	1.6	5	3.2	13	10.2	2	6.5	10	13.3	2	7.4
45-49	13	7.6	8	13.1	23	14.8	8	6.3	6	19.4	13	17.3	2	7.4
50-54	24	14.0	8	13.1	10	6.5	16	12.6	3	9.7	6	8.0	3	11.1
55-59	17	9.9	3	4.9	18	11.6	11	8.7	4	12.9	7	9.3	4	14.8
60-64	7	4.1	7	11.5	17	11.0	8	6.3	3	9.7	4	5.3	2	7.4
65-69	9	5.2	3	4.9	12	7.7	10	7.9	-	-	5	6.7	2	7.4
70-74	4	2.3	1	1.6	13	8.4	10	7.9	-	-	1	1.3	1	3.7
75+	-	-	1	1.6	6	3.9	5	3.9	1	3.2	4	5.3	1	3.7
All Ages	172	100.0	61	100.0	155	100.0	127	100.0	31	100.0	75	100.0	27	100.0

Females

Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	1	1.9	-	-	-	-	-	-	-	-	-	-	-	-
05-09	-	-	-	-	1	1.8	-	-	-	-	-	-	-	-
10-14	1	1.9	3	12.0	2	3.6	1	1.4	-	-	-	-	-	-
15-19	3	5.6	4	16.0	4	7.3	5	7.2	1	7.1	1	4.3	-	-
20-24	7	13.0	2	8.0	7	12.7	9	13.0	1	7.1	2	8.7	1	20.0
25-29	5	9.3	0	0.0	2	3.6	6	8.7	2	14.3	-	-	-	-
30-34	3	5.6	1	4.0	4	7.3	4	5.8	1	7.1	1	4.3	1	20.0
35-39	6	11.1	1	4.0	8	14.5	6	8.7	2	14.3	1	4.3	-	-
40-44	3	5.6	3	12.0	2	3.6	8	11.6	-	-	3	13.0	1	20.0
45-49	8	14.8	2	8.0	6	10.9	4	5.8	4	28.6	3	13.0	1	20.0
50-54	4	7.4	3	12.0	4	7.3	6	8.7	1	7.1	4	17.4	-	-
55-59	3	5.6	0	0.0	6	10.9	7	10.1	-	-	2	8.7	-	-
60-64	7	13.0	2	8.0	4	7.3	5	7.2	-	-	5	21.7	1	20.0
65-69	2	3.7	2	8.0	4	7.3	6	8.7	1	7.1	0	0.0	-	-
70-74	1	1.9	1	4.0	1	1.8	1	1.4	-	-	1	4.3	-	-
75+	-	-	1	4.0	-	-	1	1.4	1	7.1	-	-	-	-
All Ages	54	100.0	25	100.0	55	100.0	69	100.0	14	100.0	23	100.0	5	100.0

Table 9.19: Number (#) and Relative Proportion (%) Based on Different Methods of Diagnosis (2007-2011) - Nasopharynx (ICD-10: C11)

Registry	Microscopic		Clinical		All Imaging Techniques		Others		Unknown		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
MALES												
Mumbai	162	94.2	-	-	10	5.8	-	-	-	-	172	100.0
Bangalore	59	96.7	1	1.6	-	-	-	-	1	1.6	61	100.0
Chennai	136	87.7	11	7.1	5	3.2	3	1.9	-	-	155	100.0
Thi'puram	122	96.1	-	-	4	3.1	1	0.8	-	-	127	100.0
Dibrugarh	30	96.8	-	-	1	3.2	-	-	-	-	31	100.0
Guwahati	73	97.3	1	1.3	-	-	1	1.3	-	-	75	100.0
Chandigarh	27	100.0	-	-	-	-	-	-	-	-	27	100.0
FEMALES												
Mumbai	51	94.4	-	-	3	5.6	-	-	-	-	54	100.0
Bangalore	24	96.0	1	4.0	-	-	-	-	-	-	25	100.0
Chennai	47	85.5	3	5.5	3	5.5	2	3.6	-	-	55	100.0
Thi'puram	68	98.6	-	-	1	1.4	-	-	-	-	69	100.0
Dibrugarh	14	100.0	-	-	-	-	-	-	-	-	14	100.0
Guwahati	22	95.7	-	-	-	-	1	4.3	-	-	23	100.0
Chandigarh	5	100.0	-	-	-	-	-	-	-	-	5	100.0

Table 9.20: Number (#) and Relative Proportion (%) according to Broad Groups of Treatment (Tmt.) (2007-2011) - Nasopharynx (ICD-10: C11)

Treatment Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Prior Tmt. Only	12	7.0	4	6.6	17	11.0	3	2.4	-	-	-	-	-	-
Prior & Tmt. at RI	11	6.4	1	1.6	-	-	4	3.1	-	-	4	5.3	1	3.7
Tmt. Only at RI	69	40.1	28	45.9	57	36.8	105	82.7	29	93.5	53	70.7	24	88.9
No CDT*	80	46.5	28	45.9	81	52.3	15	11.8	2	6.5	18	24.0	2	7.4
Total Patients	172	100.0	61	100.0	155	100.0	127	100.0	31	100.0	75	100.0	27	100.0
FEMALES														
Prior Tmt. Only	2	1.2	2	3.3	7	4.5	2	1.6	-	-	1	1.3	-	-
Prior & Tmt. at RI	3	1.7	-	-	-	-	3	2.4	-	-	-	-	-	-
Tmt. Only at RI	18	10.5	9	14.8	29	18.7	53	41.7	12	38.7	16	21.3	4	14.8
No CDT*	31	18.0	14	23.0	19	12.3	11	8.7	2	6.5	6	8.0	1	3.7
Total Patients	54	100.0	25	100.0	55	100.0	69	100.0	14	100.0	23	100.0	5	100.0

*CDT=Cancer Directed Treatment

Table 9.21: Number (#) and Relative Proportion (%) according to the Clinical Extent of Disease (Excludes Patients Previously Treated) (2007-2011) - Nasopharynx (ICD-10: C11)

Registry	Localised (L)		Regional (R)		L + R		Distant		Others		Unknown		All Stages	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Mumbai	6	4.0	80	53.7	86	57.7	4	2.7	-	-	59	39.6	149	100.0
Bangalore	3	5.4	50	89.3	53	94.6	3	5.4	-	-	-	-	56	100.0
Chennai	2	1.4	122	88.4	124	89.9	14	10.1	-	-	-	-	138	100.0
Thi'puram	4	3.3	111	92.5	115	95.8	5	4.2	-	-	-	-	120	100.0
Dibrugarh	1	3.2	30	96.8	31	100.0	-	-	-	-	-	-	31	100.0
Guwahati	3	4.2	63	88.7	66	93.0	5	7.0	-	-	-	-	71	100.0
Chandigarh	-	-	20	76.9	20	76.9	4	15.4	2	7.7	-	-	26	100.0
FEMALES														
Mumbai	-	-	21	42.9	21	42.9	2	4.1	1	2.0	25	51.0	49	100.0
Bangalore	1	4.3	20	87.0	21	91.3	1	4.3	1	4.3	-	-	23	100.0
Chennai	-	-	39	81.3	39	81.3	9	18.8	-	-	-	-	48	100.0
Thi'puram	-	-	62	96.9	62	96.9	2	3.1	-	-	-	-	64	100.0
Dibrugarh	-	-	14	100.0	14	100.0	-	-	-	-	-	-	14	100.0
Guwahati	-	-	22	100.0	22	100.0	-	-	-	-	-	-	22	100.0
Chandigarh	-	-	5	100.0	5	100.0	-	-	-	-	-	-	5	100.0

**“The only equipment lack in the modern hospital?
Somebody to meet you at the entrance with a
handshake! “**

- Martin H. Fischer

Table 9.22: Number (#) and Relative Proportion (%) according to Type of Treatment Given (Patients Treated Only at Reporting Institution) (2007-2011) - Nasopharynx (ICD-10: C11)**Males**

Type of Treatment	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total Patients	69	100.0	28	100.0	57	100.0	105	100.0	29	100.0	53	100.0	24	100.0
Specific Treatments														
Surgery (S)	1	1.4	-	-	-	-	-	-	1	3.4	-	-	-	-
Radiotherapy (R)	10	14.5	4	14.3	3	5.3	16	15.2	16	55.2	22	41.5	4	16.7
Chemotherapy (C)	4	5.8	1	3.6	-	-	13	12.4	1	3.4	2	3.8	1	4.2
S + R	1	1.4	-	-	-	-	1	1.0	2	6.9	1	1.9	-	-
S + C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R + C	51	73.9	23	82.1	51	89.5	75	71.4	9	31.0	28	52.8	17	70.8
S + R + C	1	1.4	-	-	3	5.3	-	-	-	-	-	-	2	8.3
Others	1	1.4	-	-	-	-	-	-	-	-	-	-	-	-
Modality of Therapy														
Single	15	21.7	5	17.9	3	5.3	29	27.6	18	62.1	24	45.3	5	20.8
Combination	54	78.3	23	82.1	54	94.7	76	72.4	11	37.9	29	54.7	19	79.2
Type of Any Treatment														
Any S	3	4.3	-	-	3	5.3	1	1.0	3	10.3	1	1.9	2	8.3
Any R	64	92.8	27	96.4	57	100.0	92	87.6	27	93.1	51	96.2	23	95.8
Any C	57	82.6	24	85.7	54	94.7	88	83.8	10	34.5	30	56.6	20	83.3

Females

Type of Treatment	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total Patients	18	100.0	9	100.0	29	100.0	53	100.0	12	100.0	16	100.0	4	100.0
Specific Treatments														
Surgery (S)	-	-	-	-	-	-	-	-	-	-	-	-	1	25.0
Radiotherapy (R)	2	11.1	-	-	1	3.4	10	18.9	7	58.3	4	25.0	1	25.0
Chemotherapy (C)	1	5.6	2	22.2	1	3.4	-	-	1	8.3	-	-	-	-
S + R	-	-	1	11.1	1	3.4	-	-	-	-	1	6.3	-	-
S + C	-	-	1	11.1	-	-	-	-	-	-	-	-	-	-
R + C	15	83.3	4	44.4	25	86.2	43	81.1	4	33.3	11	68.8	2	50.0
S + R + C	-	-	1	11.1	1	3.4	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modality of Therapy														
Single	3	16.7	2	22.2	2	6.9	10	18.9	8	66.7	4	25.0	2	50.0
Combination	15	83.3	7	77.8	27	93.1	43	81.1	4	33.3	12	75.0	2	50.0
Type of Any Treatment														
Any S	-	-	3	10.7	2	3.5	-	-	-	-	1	1.9	1	4.2
Any R	17	24.6	6	21.4	28	49.1	53	50.5	11	37.9	16	30.2	3	12.5
Any C	16	23.2	8	28.6	27	47.4	43	41.0	5	17.2	11	20.8	2	8.3

PHARYNX (ICD-10: C09-C10, C12-C14)

The total number, relative proportion of cancer of the group “Other Pharynx” (ICD-10: C09-C10, C12-C14) in males and females for the years (2007-2011) are given in Table 9.23. The relative proportion of pharyngeal cancer to all sites varied from 0.9% in females in Thiruvananthapuram to 22.6% among males in Dibrugarh.

Table 9.24 shows the distribution of these cancers by five year age group. The predominant form of diagnosis of cancer (>95%) was through microscopic examination (Table 9.25) except in Chennai where the proportion of microscopically diagnosed patients were 70.1% among males and 74.3% among females. Table 9.26 gives the relative proportion of cancer of pharynx according to broad groups of treatment.

Table 9.27 gives the distribution of pharyngeal cancer according to the clinical extent of disease. The regional spread of the disease varied from 62.9% in Mumbai males to 97.7% in Dibrugarh males.

Table 9.28 gives the picture of the types of treatment given to these patients.

**Table 9.23: Number (#) and Relative Proportion (%) (2007-2011) - Both Sexes
Pharynx (ICD-10: C09-C10, C12-C14)**

Registry	Males			Females		
	All Sites	#	%	All Sites	#	%
Mumbai	22580	1413	6.3	18528	281	1.5
Bangalore	11273	1539	13.7	13125	239	1.8
Chennai	15731	1261	8.0	17499	494	2.8
Thi'puram	19219	1098	5.7	18809	178	0.9
Dibrugarh	2895	653	22.6	2276	124	5.4
Guwahati	6803	1356	19.9	4679	234	5.0
Chandigarh	2643	145	5.5	2092	25	1.2

Table 9.24: Number (#) and Relative Proportion (%) according to Five-Year Age Group (2007-2011) - Pharynx (ICD-10: C09-C10, C12-C14)**Males**

Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	-	-	-	-	1	0.1	-	-	-	-	-	-	-	-
05-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	1	0.1	1	0.1	3	0.2	-	-	-	-	-	-	-	-
20-24	1	0.1	4	0.3	7	0.6	1	0.1	-	-	-	-	-	-
25-29	6	0.4	9	0.6	17	1.3	1	0.1	5	0.8	4	0.3	-	-
30-34	17	1.2	10	0.6	24	1.9	8	0.7	9	1.4	13	1.0	2	1.4
35-39	34	2.4	55	3.6	41	3.3	10	0.9	27	4.1	51	3.8	3	2.1
40-44	74	5.2	55	3.6	77	6.1	35	3.2	45	6.9	92	6.8	8	5.5
45-49	160	11.3	158	10.3	123	9.8	82	7.5	67	10.3	159	11.7	19	13.1
50-54	228	16.1	215	14.0	165	13.1	160	14.6	88	13.5	184	13.6	24	16.6
55-59	240	17.0	233	15.1	217	17.2	210	19.1	99	15.2	215	15.9	21	14.5
60-64	237	16.8	284	18.5	206	16.3	201	18.3	99	15.2	190	14.0	25	17.2
65-69	195	13.8	244	15.9	178	14.1	157	14.3	88	13.5	164	12.1	23	15.9
70-74	136	9.6	148	9.6	106	8.4	124	11.3	64	9.8	148	10.9	11	7.6
75+	83	5.9	123	8.0	96	7.6	109	9.9	62	9.5	135	10.0	9	6.2
Unk. Age	1	0.1	-	-	-	-	-	-	-	-	1	0.1	-	-
All Ages	1413	100.0	1539	100.0	1261	100.0	1098	100.0	653	100.0	1356	100.0	145	100.0

Females

Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	1	0.4	-	-	-	-	-	-	-	-	-	-	-	-
05-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-14	1	0.4	-	-	1	0.2	-	-	-	-	-	-	-	-
15-19	-	-	3	1.3	2	0.4	-	-	1	0.8	-	-	-	-
20-24	-	-	5	2.1	7	1.4	1	0.6	-	-	1	0.4	-	-
25-29	10	3.6	7	2.9	15	3.0	7	3.9	3	2.4	3	1.3	-	-
30-34	11	3.9	7	2.9	27	5.5	9	5.1	3	2.4	2	0.9	2	8.0
35-39	22	7.8	21	8.8	57	11.5	16	9.0	5	4.0	11	4.7	3	12.0
40-44	26	9.3	19	7.9	51	10.3	14	7.9	16	12.9	13	5.6	-	-
45-49	37	13.2	34	14.2	82	16.6	19	10.7	16	12.9	29	12.4	3	12.0
50-54	37	13.2	28	11.7	78	15.8	21	11.8	16	12.9	28	12.0	4	16.0
55-59	32	11.4	29	12.1	58	11.7	31	17.4	19	15.3	34	14.5	4	16.0
60-64	40	14.2	28	11.7	48	9.7	22	12.4	17	13.7	41	17.5	4	16.0
65-69	34	12.1	25	10.5	36	7.3	19	10.7	13	10.5	34	14.5	2	8.0
70-74	16	5.7	15	6.3	21	4.3	10	5.6	5	4.0	15	6.4	3	12.0
75+	14	5.0	18	7.5	11	2.2	9	5.1	10	8.1	23	9.8	-	-
Unk. Age	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All Ages	281	100.0	239	100.0	494	100.0	178	100.0	124	100.0	234	100.0	25	100.0

Unk. Age = Unknown Age

Table 9.25: Number (#) and Relative Proportion (%) Based on Different Methods of Diagnosis (2007-2011) - Pharynx (ICD-10: C09-C10, C12-C14)

Registry	Microscopic		Clinical		All Imaging Techniques		Others		Unknown		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
MALES												
Mumbai	1355	95.9	3	0.2	53	3.8	2	0.1	-	-	1413	100.0
Bangalore	1475	95.8	41	2.7	4	0.3	1	0.1	18	1.2	1539	100.0
Chennai	884	70.1	289	22.9	20	1.6	68	5.4	-	-	1261	100.0
Thi'puram	1049	95.5	40	3.6	4	0.4	5	0.5	-	-	1098	100.0
Dibrugarh	652	99.8	-	-	-	-	1	0.2	-	-	653	100.0
Guwahati	1301	95.9	26	1.9	2	0.1	27	2.0	-	-	1356	100.0
Chandigarh	145	100.0	-	-	-	-	-	-	-	-	145	100.0
FEMALES												
Mumbai	268	95.4	1	0.4	12	4.3	-	-	-	-	281	100.0
Bangalore	226	94.6	9	3.8	2	0.8	-	-	2	0.8	239	100.0
Chennai	367	74.3	84	17.0	9	1.8	34	6.9	-	-	494	100.0
Thi'puram	169	94.9	6	3.4	2	1.1	1	0.6	-	-	178	100.0
Dibrugarh	124	100.0	-	-	-	-	-	-	-	-	124	100.0
Guwahati	223	95.3	7	3.0	2	0.9	2	0.9	-	-	234	100.0
Chandigarh	25	100.0	-	-	-	-	-	-	-	-	25	100.0

Table 9.26: Number (#) and Relative Proportion (%) according to Broad Groups of Treatment (Tmt.) (2007-2011) - Pharynx (ICD-10: C09-C10, C12-C14)

Treatment Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Prior Tmt. Only	63	4.5	38	2.5	121	9.6	50	4.6	1	0.2	26	1.9	-	-
Prior & Tmt. at RI	27	1.9	17	1.1	-	-	33	3.0	10	1.5	35	2.6	2	1.4
Tmt. Only at RI	480	34.0	589	38.3	263	20.9	789	71.9	577	88.4	876	64.6	132	91.0
No CDT*	843	59.7	895	58.2	877	69.5	226	20.6	65	10.0	419	30.9	11	7.6
Total Patients	1413	100.0	1539	100.0	1261	100.0	1098	100.0	653	100.0	1356	100.0	145	100.0
FEMALES														
Prior Tmt. Only	12	4.3	7	2.9	41	8.3	6	3.4	1	0.8	3	1.3	-	-
Prior & Tmt. at RI	6	2.1	2	0.8	-	-	10	5.6	-	-	5	2.1	3	12.0
Tmt. Only at RI	104	37.0	111	46.4	135	27.3	125	70.2	113	91.1	155	66.2	17	68.0
No CDT*	159	56.6	119	49.8	318	64.4	37	20.8	10	8.1	71	30.3	5	20.0
Total Patients	281	100.0	239	100.0	494	100.0	178	100.0	124	100.0	234	100.0	25	100.0

*CDT=Cancer Directed Treatment

Table 9.27: Number (#) and Relative Proportion (%) according to the Clinical Extent of Disease (Excludes Patients Previously Treated) (2007-2011) - Pharynx (ICD-10: C09-C10, C12-C14)

Registry	Localised (L)		Regional (R)		L+R		Distant		Others		Unknown		All Stages	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Mumbai	72	5.4	832	62.9	904	68.3	12	0.9	1	0.1	406	30.7	1323	100.0
Bangalore	85	5.7	1329	89.6	1414	95.3	66	4.4	1	0.1	3	0.2	1484	100.0
Chennai	69	6.1	1056	92.6	1125	98.7	14	1.2	1	0.1	-	-	1140	100.0
Thi'puram	22	2.2	963	94.9	985	97.0	30	3.0	-	-	-	-	1015	100.0
Dibrugarh	3	0.5	627	97.7	630	98.1	8	1.2	4	0.6	-	-	642	100.0
Guwahati	57	6.5	770	87.9	827	94.4	49	5.6	-	-	-	-	876	100.0
Chandigarh	3	2.1	127	88.8	130	90.9	10	7.0	3	2.1	-	-	143	100.0
FEMALES														
Mumbai	21	8.0	166	63.1	187	71.1	2	0.8	-	-	74	28.1	263	100.0
Bangalore	20	8.7	193	83.9	213	92.6	15	6.5	1	0.4	1	0.4	230	100.0
Chennai	48	10.6	404	89.2	452	99.8	1	0.2	-	-	-	-	453	100.0
Thi'puram	5	3.1	153	94.4	158	97.5	4	2.5	-	-	-	-	162	100.0
Dibrugarh	-	-	120	97.6	120	97.6	2	1.6	1	0.8	-	-	123	100.0
Guwahati	7	4.5	137	88.4	144	92.9	11	7.1	-	-	-	-	155	100.0
Chandigarh	1	4.5	21	95.5	22	100.0	-	-	-	-	-	-	22	100.0

Table 9.28: Number (#) and Relative Proportion (%) according to Type of Treatment Given (Patients Treated Only at Reporting Institution) (2007-2011) - Pharynx (ICD-10: C09-C10, C12-C14)**Males**

Type of Treatment	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total Patients	480	100.0	589	100.0	263	100.0	789	100.0	577	100.0	876	100.0	132	100.0
Specific Treatments														
Surgery (S)	35	7.3	20	3.4	4	1.5	4	0.5	3	0.5	1	0.1	-	-
Radiotherapy (R)	135	28.1	285	48.4	61	23.2	304	38.5	316	54.8	771	88.0	91	68.9
Chemotherapy (C)	16	3.3	34	5.8	1	0.4	46	5.8	14	2.4	2	0.2	6	4.5
S + R	40	8.3	57	9.7	14	5.3	12	1.5	4	0.7	12	1.4	2	1.5
S + C	1	0.2	6	1.0	-	-	1	0.1	-	-	-	-	-	-
R + C	231	48.1	172	29.2	167	63.5	401	50.8	237	41.1	90	10.3	33	25.0
S + R + C	22	4.6	14	2.4	16	6.1	18	2.3	2	0.3	-	-	-	-
Others	-	-	1	0.2	-	-	3	0.4	1	0.2	-	-	-	-
Modality of Therapy														
Single	186	38.8	340	57.7	66	25.1	354	44.9	333	57.7	774	88.4	97	73.5
Combination	294	61.3	249	42.3	197	74.9	432	54.8	244	42.3	102	11.6	35	26.5
Type of Any Treatment														
Any Surgery	98	20.4	97	16.5	34	12.9	35	4.4	9	1.5	13	1.5	2	1.5
Any R	428	89.1	528	89.7	258	98.1	735	93.1	559	96.9	873	99.7	126	95.4
Any C	270	56.2	226	38.4	184	70.0	466	59.0	253	43.8	92	10.5	39	29.5

Females

Type of Treatment	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total Patients	104	100.0	111	100.0	135	100.0	125	100.0	113	100.0	155	100.0	17	100.0
Specific Treatments														
Surgery (S)	3	2.9	6	5.4	3	2.2	4	3.2	-	-	-	-	-	-
Radiotherapy (R)	45	43.3	55	49.5	15	11.1	40	32.0	64	56.6	137	88.4	10	58.8
Chemotherapy (C)	4	3.8	4	3.6	2	1.5	12	9.6	2	1.8	1	0.6	-	-
S + R	5	4.8	12	10.8	13	9.6	2	1.6	2	1.8	5	3.2	3	17.6
S + C	-	-	-	-	-	-	2	1.6	-	-	-	-	-	-
R + C	43	41.3	31	27.9	97	71.9	63	50.4	44	38.9	12	7.7	4	23.5
S + R + C	4	3.8	2	1.8	5	3.7	2	1.6	1	0.9	-	-	-	-
Others	-	-	1	0.9	-	-	-	-	-	-	-	-	-	-
Modality of Therapy														
Single	52	50.0	65	58.6	20	14.8	56	44.8	66	58.4	138	89.0	10	58.8
Combination	52	50.0	46	41.4	115	85.2	69	55.2	47	41.6	17	11.0	7	41.2
Type of Any Treatment														
Any Surgery	12	11.5	20	18.0	21	15.5	10	8.0	3	2.7	5	3.2	3	17.6
Any R	97	93.2	100	90.0	130	96.3	107	85.6	111	98.2	154	99.3	17	99.9
Any C	51	48.9	37	33.3	104	77.1	79	63.2	47	41.6	13	8.3	4	23.5

LARYNX (ICD-10: C32)

The total number, relative proportion of cancer of larynx in males and females for the years (2007-2011) are given in Table 9.29. The proportion of laryngeal cancer relative to all sites varied from 0.2% in Thiruvananthapuram among females to 5.6% among males in Guwahati.

Table 9.30 shows the distribution of cancer of larynx by five year age group. The predominant form of diagnosis of cancer (>91%) was through microscopic examination (Table 9.31) except in Chennai where the proportion of microscopically diagnosed patients was 77% among males and 65.6% among females.

Table 9.32 gives the relative proportion of laryngeal cancer according to broad groups of treatment.

Table 9.33 gives the distribution of laryngeal cancer according to the clinical extent of disease. The regional spread of the disease varied from 46% in males in Mumbai to 91.7% in Dibrugarh in females.

Table 9.34 gives the picture of the types of treatment given to these patients.

**Table 9.29: Number (#) and Relative Proportion (%) (2007-2011)
Larynx (ICD-10: C32)**

Registry	Males			Females		
	All Sites	#	%	All Sites	#	%
Mumbai	22580	841	3.7	18528	71	0.4
Bangalore	11273	447	4.0	13125	41	0.3
Chennai	15731	599	3.8	17499	64	0.4
Thi'puram	19219	766	4.0	18809	42	0.2
Dibrugarh	2895	106	3.7	2276	24	1.1
Guwahati	6803	382	5.6	4679	59	1.3
Chandigarh	2643	140	5.3	2092	14	0.7

Table 9.30: Number (#) and Relative Proportion (%) according to Five-Year Age Group (2007-2011) - Larynx (ICD-10: C32)

Males

Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	1	0.1	-	-	-	-	-	-	-	-	-	-	-	-
05-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-14	-	-	1	0.2	-	-	-	-	-	-	-	-	-	-
15-19	2	0.2	-	-	1	0.2	-	-	-	-	-	-	-	-
20-24	2	0.2	1	0.2	3	0.5	1	0.1	-	-	-	-	1	0.7
25-29	3	0.4	-	-	7	1.2	1	0.1	-	-	1	0.3	-	-
30-34	13	1.5	-	-	4	0.7	4	0.5	1	0.9	2	0.5	3	2.1
35-39	19	2.3	14	3.1	12	2.0	14	1.8	2	1.9	14	3.7	1	0.7
40-44	34	4.0	24	5.4	31	5.2	23	3.0	5	4.7	24	6.3	6	4.3
45-49	103	12.2	36	8.1	53	8.8	54	7.0	12	11.3	39	10.2	15	10.7
50-54	145	17.2	64	14.3	72	12.0	89	11.6	19	17.9	57	14.9	28	20.0
55-59	136	16.2	63	14.1	100	16.7	141	18.4	14	13.2	59	15.4	26	18.6
60-64	125	14.9	71	15.9	114	19.0	152	19.8	13	12.3	54	14.1	21	15.0
65-69	123	14.6	83	18.6	85	14.2	131	17.1	18	17.0	52	13.6	19	13.6
70-74	84	10.0	61	13.6	64	10.7	81	10.6	18	17.0	49	12.8	10	7.1
75+	51	6.1	29	6.5	53	8.8	75	9.8	4	3.8	31	8.1	10	7.1
All Ages	841	100.0	447	100.0	599	100.0	766	100.0	106	100.0	382	100.0	140	100.0

Females

Age Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
00-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	-	-	1	2.4	-	-	1	2.4	-	-	-	-	-	-
20-24	3	4.2	1	2.4	2	3.1	-	-	-	-	-	-	-	-
25-29	1	1.4	2	4.9	5	7.8	1	2.4	-	-	-	-	-	-
30-34	4	5.6	-	-	1	1.6	2	4.8	-	-	1	1.7	-	-
35-39	1	1.4	-	-	4	6.3	2	4.8	1	4.2	1	1.7	2	14.3
40-44	6	8.5	3	7.3	4	6.3	4	9.5	2	8.3	1	1.7	5	35.7
45-49	6	8.5	2	4.9	7	10.9	4	9.5	4	16.7	12	20.3	1	7.1
50-54	10	14.1	7	17.1	7	10.9	4	9.5	4	16.7	15	25.4	-	-
55-59	12	16.9	7	17.1	13	20.3	5	11.9	1	4.2	6	10.2	2	14.3
60-64	9	12.7	6	14.6	9	14.1	11	26.2	3	12.5	13	22.0	1	7.1
65-69	7	9.9	5	12.2	3	4.7	1	2.4	6	25.0	5	8.5	2	14.3
70-74	7	9.9	3	7.3	7	10.9	4	9.5	3	12.5	3	5.1	-	-
75+	5	7.0	4	9.8	2	3.1	3	7.1	-	-	2	3.4	1	7.1
All Ages	71	100.0	41	100.0	64	100.0	42	100.0	24	100.0	59	100.0	14	100.0

Table 9.31: Number (#) and Relative Proportion (%) Based on Different Methods of Diagnosis (2007-2011) - Larynx (ICD-10: C32)

Registry	Microscopic		Clinical		All Imaging Techniques		Others		Unknown		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
MALES												
Mumbai	779	92.6		0.0	61	7.3	1	0.1	0	0.0	841	100.0
Bangalore	418	94.4	17	3.8	4	0.9		0.0	8	1.8	443	100.0
Chennai	461	77.0	95	15.9	12	2.0	31	5.2	-	-	599	100.0
Thi'puram	739	96.5	12	1.6	7	0.9	8	1.0	-	-	766	100.0
Dibrugarh	105	99.1	-	-	1	0.9	-	-	-	-	106	100.0
Guwahati	358	93.7	8	2.1	5	1.3	11	2.9	-	-	382	100.0
Chandigarh	140	100.0	-	-	-	-	-	-	-	-	140	100.0
FEMALES												
Mumbai	69	97.2	-	-	2	2.8	-	-	-	-	71	100.0
Bangalore	40	97.6	-	-	-	-	-	-	1	2.4	41	100.0
Chennai	42	65.6	14	21.9	2	3.1	6	9.4	-	-	64	100.0
Thi'puram	40	95.2	1	2.4	1	2.4	-	-	-	-	42	100.0
Dibrugarh	24	100.0	-	-	-	-	-	-	-	-	24	100.0
Guwahati	54	91.5	1	1.7	-	-	4	6.8	-	-	59	100.0
Chandigarh	14	100.0	-	-	-	-	-	-	-	-	14	100.0

Table 9.32: Number (#) and Relative Proportion (%) according to Broad Groups of Treatment (Tmt.) (2007-2011) - Larynx (ICD-10: C32)

Treatment Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Prior Tmt. Only	74	8.8	18	4.0	57	9.5	15	2.0	-	-	12	3.1	1	0.7
Prior & Tmt. at RI	36	4.3	11	2.5	2	0.3	36	4.7	1	0.9	17	4.5	8	5.7
Tmt. Only at RI	291	34.6	213	47.7	221	36.9	600	78.3	98	92.5	245	64.1	116	82.9
No CDT*	440	52.3	205	45.9	319	53.3	115	15.0	7	6.6	108	28.3	15	10.7
Total Patients	841	100.0	447	100.0	599	100.0	766	100.0	106	100.0	382	100.0	140	100.0
FEMALES														
Prior Tmt. Only	-	-	2	4.9	1	1.6	2	4.8	-	-	-	-	1	7.1
Prior & Tmt. at RI	1	1.4	2	4.9	-	-	3	7.1	-	-	1	1.7	-	-
Tmt. Only at RI	29	40.8	20	48.8	24	37.5	30	71.4	18	75.0	34	57.6	13	92.9
No CDT*	41	57.7	17	41.5	39	60.9	7	16.7	6	25.0	24	40.7	-	-
Total Patients	71	100.0	41	100.0	64	100.0	42	100.0	24	100.0	59	100.0	14	100.0

*CDT=Cancer Directed Treatment

Table 9.33: Number (#) and Relative Proportion (%) according to the Clinical Extent of Disease (Excludes Patients Previously Treated) (2007-2011) - Larynx (ICD-10: C32)

Registry	Localised (L)		Regional (R)		L+R		Distant		Others		Unknown		All Stages	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Mumbai	140	19.2	336	46.0	476	65.1	7	1.0	-	-	248	33.9	731	100.0
Bangalore	71	17.0	326	78.0	397	95.0	17	4.1	2	0.5	2	0.5	418	100.0
Chennai	65	12.0	469	86.9	534	98.9	6	1.1	-	-	-	-	540	100.0
Thi'puram	194	27.1	513	71.7	707	98.9	8	1.1	-	-	-	-	715	100.0
Dibrugarh	-	-	103	98.1	103	98.1	2	1.9	-	-	-	-	105	100.0
Guwahati	52	14.7	285	80.7	337	95.5	16	4.5	-	-	-	-	353	100.0
Chandigarh	9	6.9	111	84.7	120	91.6	10	7.6	1	0.8	-	-	131	100.0
FEMALES														
Mumbai	13	18.6	38	54.3	51	72.9	1	1.4	-	-	18	25.7	70	100.0
Bangalore	9	24.3	27	73.0	36	97.3	1	2.7	-	-	-	-	37	100.0
Chennai	6	9.5	57	90.5	63	100.0	-	-	-	-	-	-	63	100.0
Thi'puram	14	37.8	23	62.2	37	100.0	-	-	-	-	-	-	37	100.0
Dibrugarh	-	-	22	91.7	22	91.7	1	4.2	1	4.2	-	-	24	100.0
Guwahati	7	12.1	49	84.5	56	96.6	2	3.4	-	-	-	-	58	100.0
Chandigarh	-	-	9	69.2	9	69.2	4	30.8	-	-	-	-	13	100.0

Table 9.34: Number (#) and Relative Proportion (%) according to Type of Treatment Given (Patients Treated Only at Reporting Institution) (2007-2011) - Larynx (ICD-10: C32)**Males**

Type of Treatment	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total Patients	291	100.0	213	100.0	221	100.0	600	100.0	98	100.0	245	100.0	116	100.0
Specific Treatments														
Surgery (S)	44	15.1	56	26.3	7	3.2	8	1.3	1	1.0	3	1.2	-	-
Radiotherapy (R)	115	39.5	58	27.2	93	42.1	360	60.0	58	59.2	214	87.3	78	67.2
Chemotherapy (C)	2	0.7	8	3.8	-	-	18	3.0	2	2.0	2	0.8	-	-
S + R	35	12.0	53	24.9	38	17.2	46	7.7	2	2.0	3	1.2	13	11.2
S + C	-	-	3	1.4	-	-	1	0.2	-	-	-	-	-	-
R + C	70	24.1	29	13.6	78	35.3	156	26.0	35	35.7	23	9.4	24	20.7
S + R + C	25	8.6	6	2.8	5	2.3	9	1.5	-	-	-	-	-	-
Others	-	-	-	-	-	-	2	0.3	-	-	-	-	1	0.9
Modality of Therapy														
Single	161	55.3	122	57.3	100	45.2	387	64.5	61	62.2	219	89.4	78	67.2
Combination	130	44.7	91	42.7	121	54.8	212	35.3	37	37.8	26	10.6	37	31.9
Type of Any Treatment														
Any Surgery	104	23.3	118	38.1	50	14.4	64	7.8	3	2.2	6	2.2	13	8.5
Any R	245	54.9	146	47.1	214	61.7	571	69.5	95	70.4	240	88.6	115	75.2
Any C	97	21.7	46	14.8	83	23.9	184	22.4	37	27.4	25	9.2	24	15.7

Females

Type of Treatment	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh		Guwahati		Chandigarh	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total Patients	29	100.0	20	100.0	24	100.0	30	100.0	18	100.0	34	100.0	13	100.0
Specific Treatments														
Surgery (S)	3	10.3	6	30.0	2	8.3	-	-	-	-	-	-	-	-
Radiotherapy (R)	12	41.4	7	35.0	11	45.8	18	60.0	13	72.2	32	94.1	6	46.2
Chemotherapy (C)	2	6.9	-	-	-	-	-	-	1	5.6	-	-	-	-
S + R	3	10.3	3	15.0	1	4.2	2	6.7	-	-	1	2.9	3	23.1
S + C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R + C	9	31.0	4.0	20.0	10	41.7	9	30.0	3	16.7	1	2.9	4	30.8
S + R + C	-	-	-	-	-	-	1	3.3	1	5.6	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modality of Therapy														
Single	17	58.6	13	65.0	13	54.2	18	60.0	14	77.8	32	94.1	6	46.2
Combination	12	41.4	7	35.0	11	45.8	12	40.0	4	22.2	2	5.9	7	53.8
Type of Any Treatment														
Any Surgery	6	14.6	9	33.3	3	8.6	3	7	1	4.3	1	2.8	3	15.0
Any R	24	58.5	14	51.9	22	62.9	30	69.8	17	73.9	34	94.4	13	65.0
Any C	11	26.8	4	14.8	10	28.6	10	23.3	5	21.7	1	2.8	4	20.0