

Chapter 7

TREATMENT ONLY AT REPORTING INSTITUTION

This is the most important category of broad treatment groups presented in chapter 5, since it best represents the contribution to the treatment aspect of patient care of a given institution.

Table 7.1 gives a summary of the number of patients treated during the period and the total number of treatment procedures instituted. These ratios are comparable between registries located at regional cancer centres. The ratio is slightly lower at Dibrugarh which is in a medical college setup. Table 7.1 is further diagrammatically represented in Figure 7.1.

TYPES OF TREATMENT

Table 7.2 and corresponding figures (Figures 7.2 and 7.3) give the numbers and relative proportions according to type of specific treatment given, whether it is a single type of treatment (Single Modality Therapy) or more than one type of therapy (Combination Therapy) has been given. It also gives the overall number and relative proportion of any treatment with reference to the total patients treated.

Single modality of therapy ranged between 57.2% in Mumbai to 89.6% in Dibrugarh in males. In females, the lowest and highest percentages were observed in Mumbai (47.7%) and Dibrugarh (62.2%) respectively.

Table 7.1: Total Number of Cancer Patients (Pts.) Treated, Total Number of Treatment Procedures (Proc.) Performed and Procedures / Patient Ratio (2004-2006)

Registry	Males			Females		
	Total Pts.	Total Proc.	Ratio	Total Pts.	Total Proc.	Ratio
Mumbai*	5889	8603	1.5	4396	7970	1.8
Bangalore	4405	5843	1.3	6221	9515	1.5
Chennai	3582	5141	1.4	5330	9926	1.9
Thi'puram	7806	10601	1.4	6030	9886	1.6
Dibrugarh	1523	1690	1.1	1154	1007	0.9

* Only 2004-05 data.

Fig. 7.1: Procedure - Patient Ratio (Patients Treated only at Reporting Institution) - 2004-2006

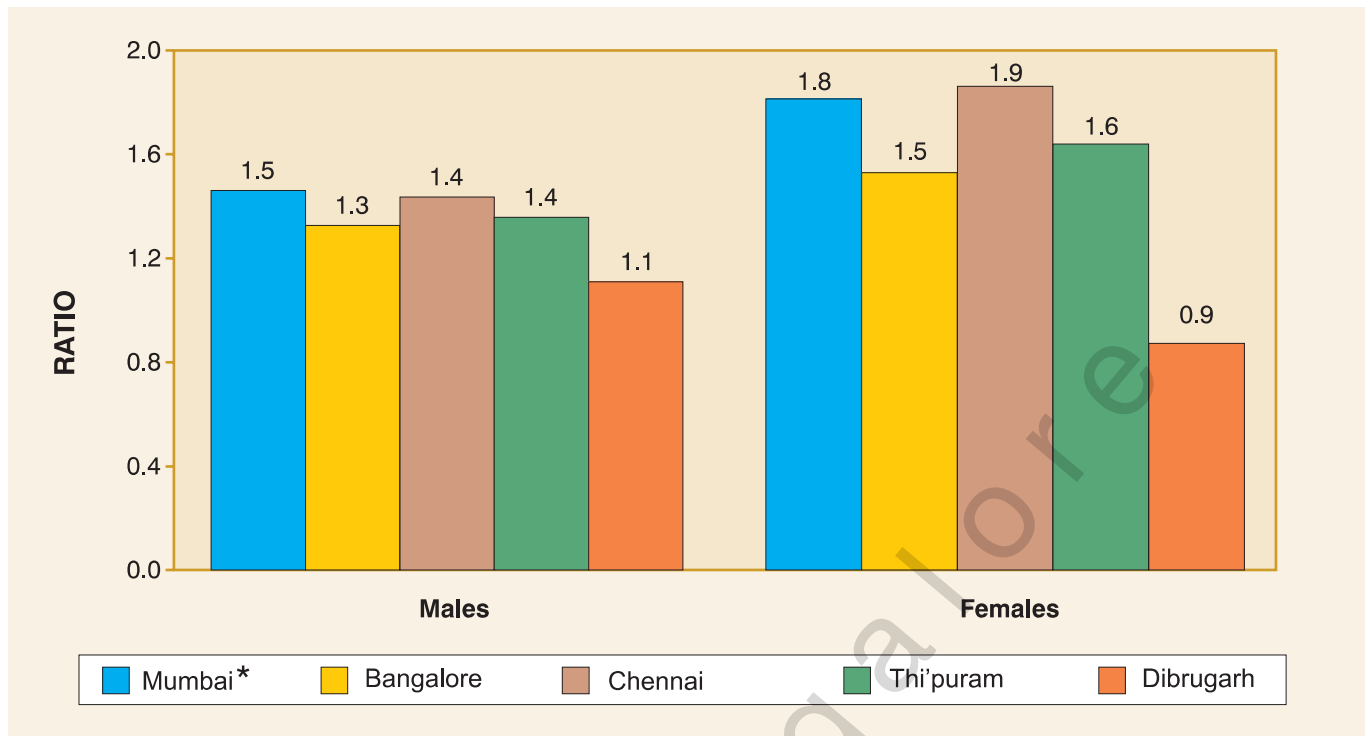


Fig. 7.2: Stack (100%) Diagram showing Proportion of Different Types of Treatment (Patients Treated only at Reporting Institution) - 2004-2006

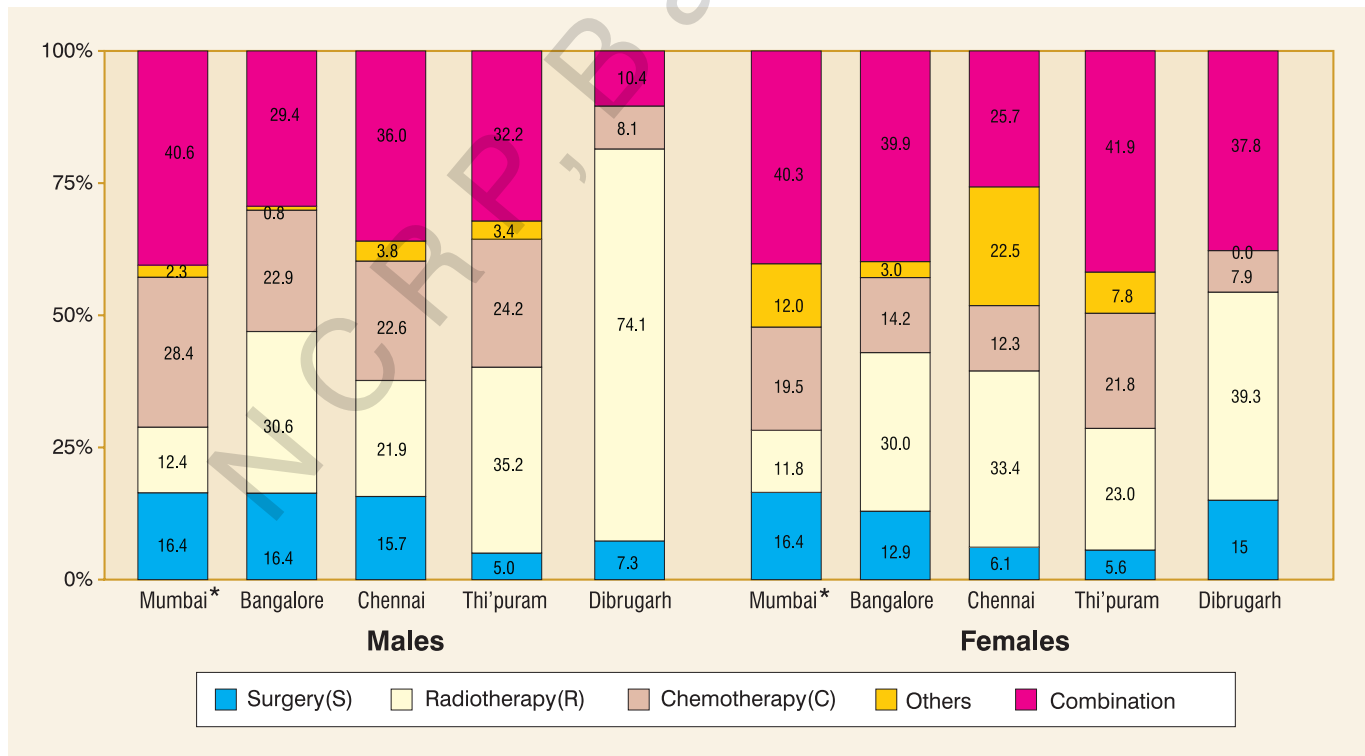


Table 7.2: Number (#) and Relative Proportion (%) of Patients according to Type of Treatment given (2004-2006)**Males**

Type of Treatment	Mumbai*		Bangalore		Chennai		Thi'puram		Dibrugarh	
	#	%	#	%	#	%	#	%	#	%
Total Patients	5889	100.0	4405	100.0	3582	100.0	7806	100.0	1523	100.0
Specific Treatments										
Surgery (S)	966	16.4	720	16.3	563	15.7	391	5.0	111	7.3
Radiotherapy (R)	732	12.4	1347	30.6	785	21.9	2744	35.2	1129	74.1
Chemotherapy (C)	1669	28.3	1010	22.9	810	22.6	1891	24.2	124	8.1
S+R	905	15.4	414	9.4	292	8.2	381	4.9	71	4.7
S+C	288	4.9	150	3.4	125	3.5	143	1.8	35	2.3
R+C	937	15.9	634	14.4	735	20.5	1740	22.3	46	3.0
S+R+C	258	4.4	97	2.2	136	3.8	248	3.2	7	0.5
Others	134	2.3	33	0.7	136	3.8	268	3.4	-	-
Modality of Therapy[#]										
Single	3367	57.2	3077	69.9	2158	60.2	5026	64.4	1364	89.6
Combination	2388	40.6	1295	29.4	1288	36.0	2512	32.2	159	10.4

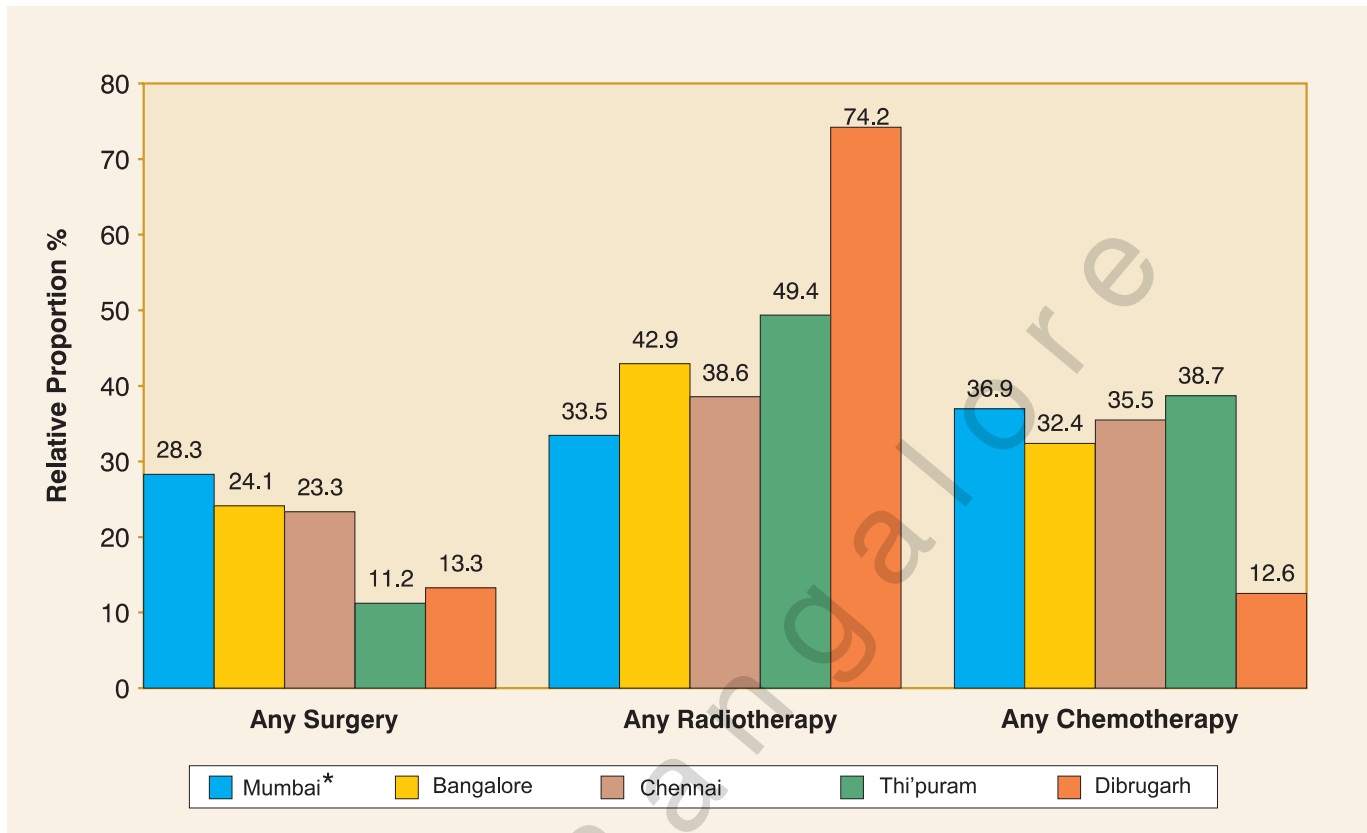
Females

Type of Treatment	Mumbai*		Bangalore		Chennai		Thi'puram		Dibrugarh	
	#	%	#	%	#	%	#	%	#	%
Total Patients	4396	100.0	6221	100.0	5330	100.0	6030	100.0	1154	100.0
Specific Treatments										
Surgery (S)	723	16.4	803	12.9	325	6.1	335	5.6	173	15.0
Radiotherapy (R)	518	11.8	1866	30.0	1779	33.4	1389	23.0	454	39.3
Chemotherapy (C)	857	19.5	885	14.2	657	12.3	1314	21.8	91	7.9
S+R	354	8.1	521	8.4	242	4.5	364	6.0	43	3.7
S+C	351	8.0	515	8.3	128	2.4	475	7.9	86	7.5
R+C	542	12.3	1015	16.3	709	13.3	1120	18.6	15	1.3
S+R+C	523	11.9	429	6.9	292	5.5	565	9.4	292	25.3
Others	528	12.0	187	3.0	1198	22.5	468	7.8	-	-
Modality of Therapy[#]										
Single	2098	47.7	3554	57.1	2761	51.8	3038	50.4	718	62.2
Combination	1770	40.3	2480	39.9	1371	25.7	2524	41.9	436	37.8

* Only 2004 data; [#] Excludes specific treatment classified as 'Others'

**Fig. 7.3: Proportion of Type of Treatment
(Patients Treated only at Reporting Institution) - 2004-2006**

Males



Females

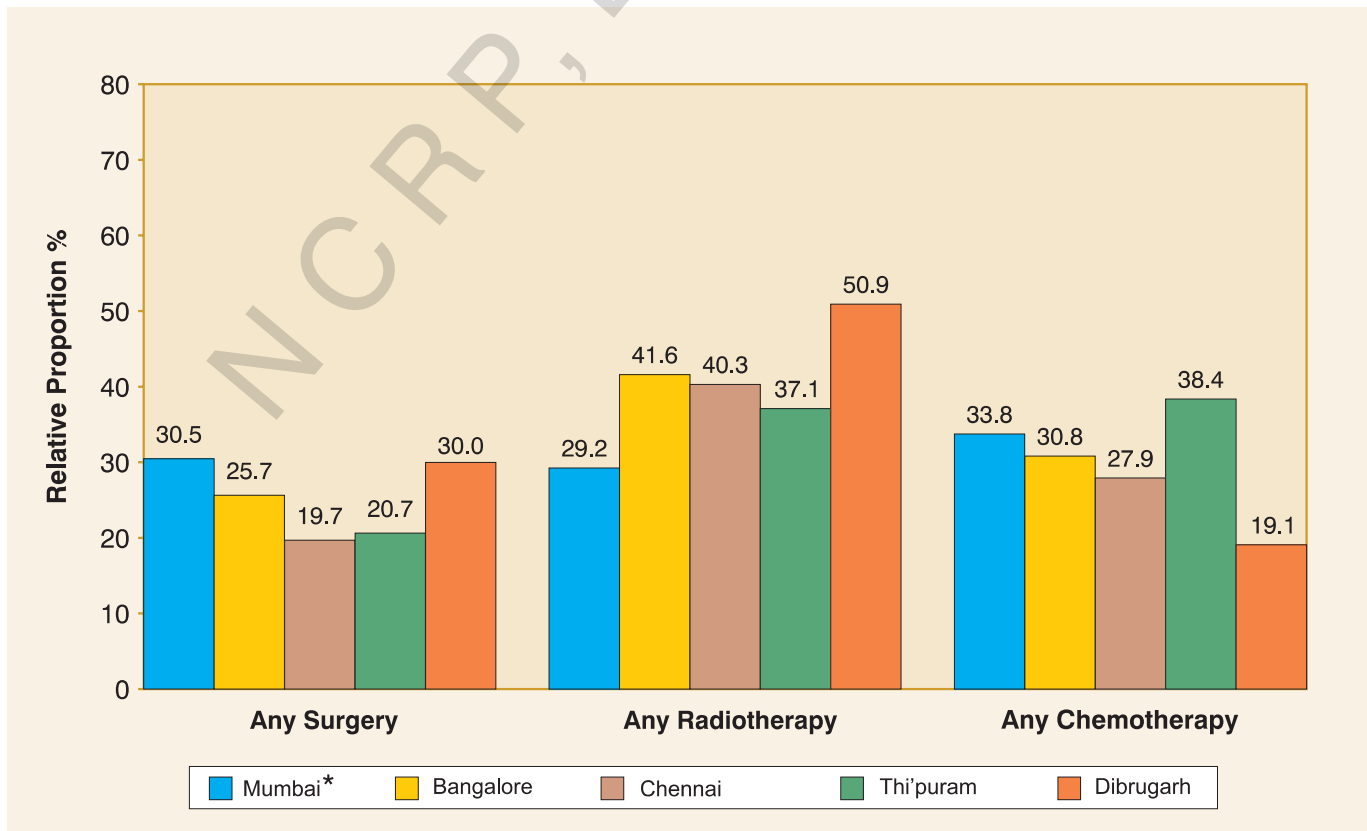


Table 7.3 and Fig. 7.3 present the total treatment procedures according to specific treatment. In males, radiotherapy was the predominant form of treatment modality in all registries, except Mumbai. In females, radiotherapy was the pre-dominant form in the registries of Chennai, Bangalore and Dibrugarh.

Tables 7.4(a) and 7.4(b) give the number and relative proportion of various types of treatment within different categories of clinical extent of disease (viz. Localised, Regional, Distant and Others).

Tables 7.5(a) and 7.5(b) provide the number and proportion of specific types of treatment relative to all patients within each category of clinical extent of disease.

Table 7.3: Number (#) and Relative Proportion (%) of Cancer Patients according to Any Specific Treatment at Reporting Institution relative to all Treatment Procedures (2004-2006)

Registry	Any Surgery		Any Radiotherapy		Any Chemotherapy		Any Others		Total Procedures
	#	%	#	%	#	%	#	%	
MALES									
Mumbai*	2431	28.3	2879	33.5	3178	36.9	115	1.3	8603
Bangalore	1409	24.1	2508	42.9	1893	32.4	33	0.6	5843
Chennai	1199	23.3	1982	38.6	1824	35.5	136	2.6	5141
Thi'puram	1169	11.2	5137	49.4	4025	38.7	78	0.7	10409
Dibrugarh	224	13.3	1253	74.2	212	12.6	0	0.0	1689
FEMALES									
Mumbai*	2431	30.5	2330	29.2	2690	33.8	519	6.5	7970
Bangalore	2440	25.7	3956	41.6	2931	30.8	184	1.9	9511
Chennai	1956	19.7	4000	40.3	2772	27.9	1198	12.1	9926
Thi'puram	2024	20.7	3635	37.1	3759	38.4	380	3.9	9798
Dibrugarh	302	30.0	512	50.9	192	19.1	0	0.0	1006

* Only 2004-05 data.

Table 7.4(a): Number (#) and Relative Proportion (%) of Types of Treatment according to Clinical Extent of Disease - Males (2004-2006)

Clinical Extent	Mumbai*		Bangalore		Chennai		Thi'puram		Dibrugarh	
	#	%	#	%	#	%	#	%	#	%
Localised										
Surgery (S)	449	39.4	130	37.5	71	12.9	129	18.0	10	27.8
Radiotherapy (R)	138	12.1	83	23.9	257	46.7	353	49.3	20	55.6
Chemotherapy (C)	61	5.3	27	7.8	6	1.1	30	4.2	0	0.0
S+R	197	17.3	47	13.5	99	18.0	38	5.3	5	13.9
S+C	116	10.2	16	4.6	4	0.7	38	5.3	1	2.8
R+C	69	6.0	29	8.4	103	18.7	91	12.7	0	0.0
S+R+C	84	7.4	9	2.6	10	1.8	24	3.4	0	0.0
Others	27	2.4	6	1.7	0	0.0	13	1.8	0	0.0
All Treatments	1141	100.0	347	100.0	550	100.0	716	100.0	36	100.0
Regional										
Surgery (S)	434	16.8	535	19.4	462	24.0	250	6.1	87	7.3
Radiotherapy (R)	391	15.1	1065	38.6	456	23.7	1632	39.8	927	77.9
Chemotherapy (C)	330	12.8	272	9.9	119	6.2	471	11.5	44	3.7
S+R	668	25.9	330	12.0	186	9.7	321	7.8	58	4.9
S+C	115	4.5	106	3.8	99	5.1	86	2.1	27	2.3
R+C	472	18.3	349	12.6	410	21.3	1040	25.3	39	3.3
S+R+C	152	5.9	80	2.9	121	6.3	216	5.3	7	0.6
Others	19	0.7	24	0.9	71	3.7	88	2.1	1	0.1
All Treatments	2581	100.0	2761	100.0	1924	100.0	4104	100.0	1190	100.0
Distant										
Surgery (S)	31	3.8	39	9.9	27	13.0	9	0.8	10	13.9
Radiotherapy (R)	128	15.6	133	33.7	22	10.6	529	47.6	22	30.6
Chemotherapy (C)	402	49.1	92	23.3	47	22.7	237	21.3	22	30.6
S+R	13	1.6	14	3.5	6	2.9	12	1.1	3	4.2
S+C	42	5.1	83	21.0	11	5.3	30	2.7	14	19.4
R+C	124	15.1	28	7.1	28	13.5	203	18.3	1	1.4
S+R+C	14	1.7	5	1.3	2	1.0	3	0.3	0	0.0
Others	65	7.9	1	0.3	64	30.9	88	7.9	0	0.0
All Treatments	819	100.0	395	100.0	207	100.0	1111	100.0	72	100.0
Others										
Surgery (S)	52	3.9	16	1.6	3	0.3	3	0.2	4	1.7
Radiotherapy (R)	75	5.6	66	6.7	50	5.6	230	12.2	160	68.7
Chemotherapy (C)	876	65.0	619	63.3	638	71.5	1153	60.9	58	24.9
S+R	27	2.0	23	2.4	1	0.1	10	0.5	5	2.1
S+C	15	1.1	21	2.1	3	0.3	5	0.3	0	0.0
R+C	272	20.2	228	23.3	194	21.7	406	21.4	6	2.6
S+R+C	8	0.6	3	0.3	3	0.3	5	0.3	0	0.0
Others	23	1.7	2	0.2	0	0.0	81	4.3	0	0.0
All Treatments	1348	100.0	978	100.0	892	100.0	1893	100.0	233	100.0

* Only 2004-05 data.

Table 7.4(b): Number (#) and Relative Proportion (%) of Types of Treatment according to Clinical Extent of Disease - Females (2004-2006)

Clinical Extent	Mumbai*		Bangalore		Chennai		Thi'puram		Dibrugarh	
	#	%	#	%	#	%	#	%	#	%
Localised										
Surgery (S)	377	33.8	163	25.9	41	6.2	123	17.5	7	41.2
Radiotherapy (R)	61	5.5	115	18.3	253	38.1	173	24.7	5	29.4
Chemotherapy (C)	41	3.7	36	5.7	21	3.2	18	2.6	0	0.0
S+R	125	11.2	71	11.3	106	16.0	80	11.4	1	5.9
S+C	97	8.7	65	10.3	18	2.7	85	12.1	4	23.5
R+C	64	5.7	85	13.5	64	9.6	80	11.4	0	0.0
S+R+C	162	14.5	44	7.0	32	4.8	72	10.3	0	0.0
Others	188	16.9	51	8.1	129	19.4	70	10.0	0	0.0
All Treatments	1115	100.0	630	100.0	664	100.0	701	100.0	17	100.0
Regional										
Surgery (S)	268	13.5	591	12.5	260	6.7	196	5.5	150	23.0
Radiotherapy (R)	322	16.2	1614	34.2	1471	37.8	982	27.6	360	55.2
Chemotherapy (C)	161	8.1	448	9.5	225	5.8	291	8.2	26	4.0
S+R	208	10.5	424	9.0	135	3.5	268	7.5	38	5.8
S+C	133	6.7	356	7.5	95	2.4	357	10.0	68	10.4
R+C	301	15.2	792	16.8	486	12.5	729	20.5	10	1.5
S+R+C	320	16.1	366	7.7	253	6.5	478	13.4	0	0.0
Others	269	13.6	132	2.8	965	24.8	255	7.2	0	0.0
All Treatments	1982	100.0	4723	100.0	3890	100.0	3556	100.0	652	100.0
Distant										
Surgery (S)	41	5.7	38	12.2	23	7.2	13	2.5	14	16.5
Radiotherapy (R)	100	14.0	105	33.7	37	11.6	127	24.7	29	34.1
Chemotherapy (C)	313	43.8	97	31.1	95	29.9	164	31.8	29	34.1
S+R	13	1.8	12	3.8	1	0.3	12	2.3	2	2.4
S+C	107	15.0	7	2.2	19	6.0	14	2.7	7	8.2
R+C	57	8.0	32	10.3	36	11.3	89	17.3	4	4.7
S+R+C	32	4.5	16	5.1	6	1.9	12	2.3	0	0.0
Others	51	7.1	5	1.6	101	31.8	84	16.3	0	0.0
All Treatments	714	100.0	312	100.0	318	100.0	515	100.0	85	100.0
Others										
Surgery (S)	37	6.3	11	2.3	1	0.2	3	0.2	2	2.0
Radiotherapy (R)	35	6.0	32	6.6	18	3.9	107	8.6	60	58.8
Chemotherapy (C)	342	58.5	304	63.1	316	67.8	841	67.7	36	35.3
S+R	8	1.4	14	2.9	0	0.0	4	0.3	2	2.0
S+C	14	2.4	11	2.3	4	0.9	3	0.2	0	0.0
R+C	120	20.5	106	22.0	123	26.4	222	17.9	1	1.0
S+R+C	9	1.5	3	0.6	1	0.2	3	0.2	0	0.0
Others	20	3.4	1	0.2	3	0.6	59	4.8	1	1.0
All Treatments	585	100.0	482	100.0	466	100.0	1242	100.0	102	100.0

* Only 2004-05 data.

Table 7.5(a): Number (#) and Proportion (%) of any Specific Treatment relative to all Treated Patients according to Clinical Extent of Disease - Males (2004-2006)

Registry	Any Surgery		Any Radiotherapy		Any Chemotherapy		Any Others		Total Patients
	#	%	#	%	#	%	#	%	
LOCALISED									
Mumbai*	851	95.9	504	56.8	337	38.0	6	0.7	1698
Bangalore	208	45.3	169	36.8	82	17.9	0	0.0	459
Chennai	184	23.7	469	60.4	123	15.8	1	0.1	777
Thi'puram	230	24.7	509	54.6	183	19.6	10	1.1	932
Dibrugarh	16	38.1	25	59.5	1	2.4	0	0.0	42
REGIONAL									
Mumbai*	1377	33.1	1697	40.8	1078	25.9	5	0.1	4157
Bangalore	1072	28.8	1839	49.4	807	21.7	1	0.0	3719
Chennai	929	32.2	1190	41.2	758	26.3	8	0.3	2885
Thi'puram	876	14.6	3221	53.8	1813	30.3	76	1.3	5986
Dibrugarh	179	13.5	1031	77.6	117	8.8	1	0.1	1328
DISTANT									
Mumbai*	101	9.8	293	28.5	589	57.4	44	4.3	1027
Bangalore	65	17.2	180	47.6	132	34.9	1	0.3	378
Chennai	76	26.8	75	26.4	105	37.0	28	9.9	284
Thi'puram	40	3.0	756	56.8	460	34.6	74	5.6	1330
Dibrugarh	20	26.3	26	34.2	30	39.5	0	0.0	76
OTHERS									
Mumbai*	102	6.1	385	23.2	1173	70.6	1	0.1	1661
Bangalore	64	5.1	320	25.5	872	69.4	0	0.0	1256
Chennai	10	0.9	248	22.6	838	76.5	0	0.0	1096
Thi'puram	23	1.0	651	28.0	1569	67.5	81	3.5	2324
Dibrugarh	9	3.7	171	70.1	64	26.2	0	0.0	244

* Only 2004-05 data.

Table 7.5(b): Number (#) and Proportion (%) of any Specific Treatment relative to all Treated Patients according to Clinical Extent of Disease - Females (2004-2006)

Registry	Any Surgery		Any Radiotherapy		Any Chemotherapy		Any Others		Total Patients
	#	%	#	%	#	%	#	%	
LOCALISED									
Mumbai*	947	48.0	542	27.5	484	24.5	1	0.1	1974
Bangalore	389	40.2	335	34.6	240	24.8	3	0.3	967
Chennai	312	28.3	557	50.5	231	20.9	4	0.4	1104
Thi'puram	425	36.4	434	37.2	304	26.0	5	0.4	1168
Dibrugarh	12	54.5	6	27.3	4	18.2	0	0.0	22
REGIONAL									
Mumbai*	1187	31.9	1378	37.0	1154	31.0	6	0.2	3725
Bangalore	1859	25.8	3299	45.8	2036	28.3	4	0.1	7198
Chennai	1580	23.8	3166	47.7	1872	28.2	17	0.3	6635
Thi'puram	1510	24.4	2601	42.0	2037	32.9	39	0.6	6187
Dibrugarh	256	33.3	408	53.1	104	13.5	0	0.0	768
DISTANT									
Mumbai*	217	21.6	230	22.9	556	55.3	2	0.2	1005
Bangalore	152	27.6	166	30.2	231	42.0	1	0.2	550
Chennai	57	13.4	134	31.6	223	52.6	10	2.4	424
Thi'puram	76	10.7	262	36.8	348	48.9	25	3.5	711
Dibrugarh	30	26.8	35	31.3	47	42.0	0	0.0	112
OTHERS									
Mumbai*	80	10.6	180	23.8	496	65.6	0	0.0	756
Bangalore	40	6.5	156	25.2	424	68.4	0	0.0	620
Chennai	7	1.2	143	24.0	446	74.7	1	0.2	597
Thi'puram	13	0.9	338	22.9	1070	72.4	57	3.9	1478
Dibrugarh	4	3.8	63	60.0	37	35.2	1	1.0	105

* Only 2004-05 data.