

## Chapter 14

### FEMALE BREAST (ICD-10: C50)

Cancer of the female breast was the leading site of cancer in Mumbai and Thiruvananthapuram, the second leading site in Bangalore, Chennai and Dibrugarh (Table 14.1).

Figure 14.1 gives the trends in actual numbers of breast cancer in females from 1984 to 2006. An increase in numbers was seen in Dibrugarh while there was a decrease in all other registries.

Table 14.2 and Figure 14.2 give the five year age distribution of breast cancer in females. The mean age was lower than 46 in Dibrugarh compared to over 48 in all other HBCRs.

Table 14.3 gives the number and relative proportion according to the different methods of diagnosis. The proportion of microscopic diagnosis was above 92% in all registries.

Table 14.4 gives the number and relative proportion according to the clinical extent of disease. The proportion with "Regional" spread varied from 80.4% in Chennai to 54.2% in Mumbai.

Table 14.5 gives the number and relative proportion according to the broad groups of treatment. The percentage of cases treated only at RI varied from 30.0% in Mumbai to 76.3% in Dibrugarh.

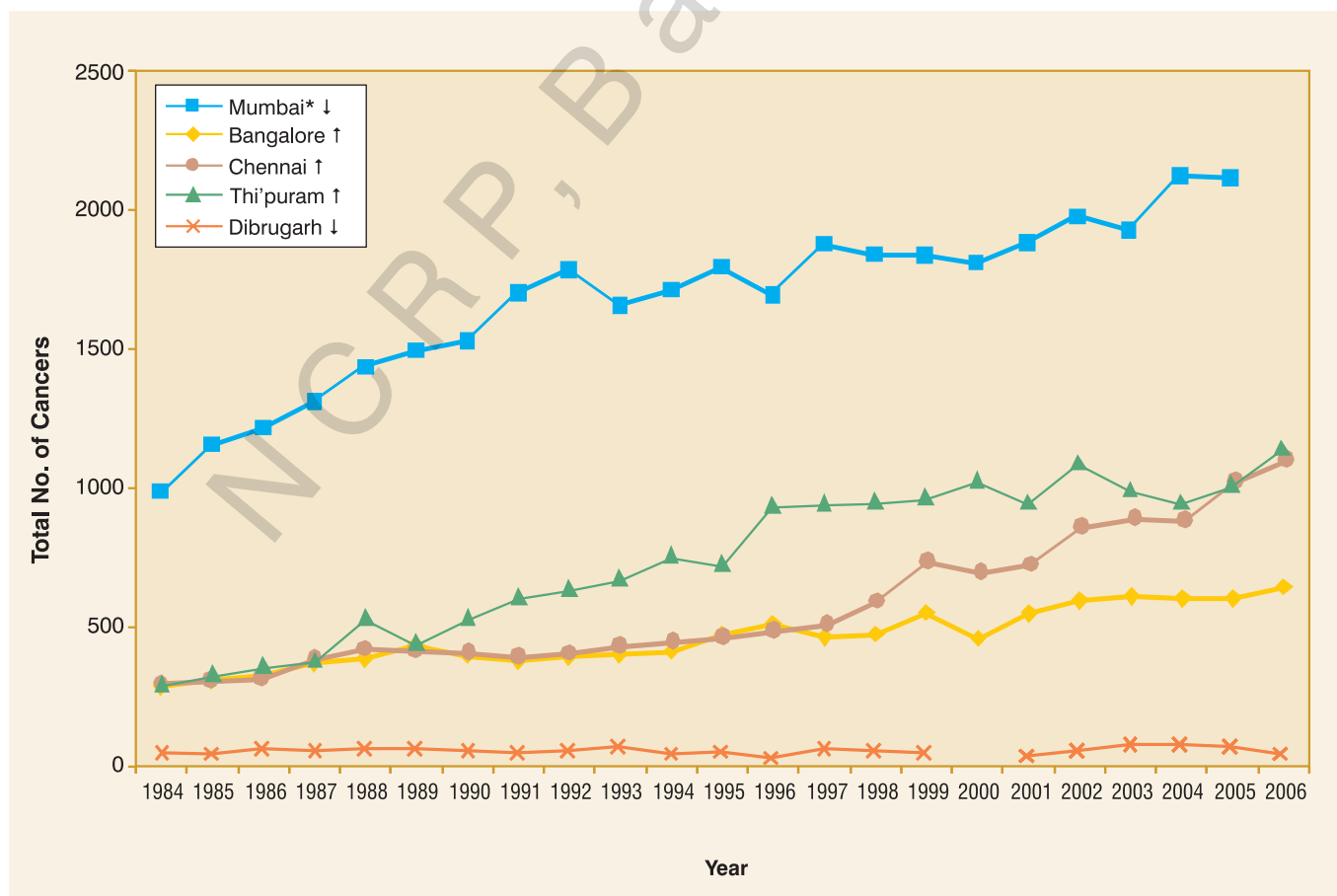
Tables 14.6 to 14.8 give the number and relative proportion according to the different types of treatment.

**Table 14.1: Number(#), Relative Proportion(%) and Rank(R) of cancers of the Breast - Females (2004-2006)**

Registry	Total	#	%	R
Mumbai*	15313	4211	27.5	1
Bangalore	10293	1825	15.4	2
Chennai	12523	2934	21.6	2
Thi'puram	12563	3086	27.1	1
Dibrugarh	1782	152	14.3	2

\* Only 2004-05 data

**Fig. 14.1 Trends in actual numbers of cancers- Female Breast**

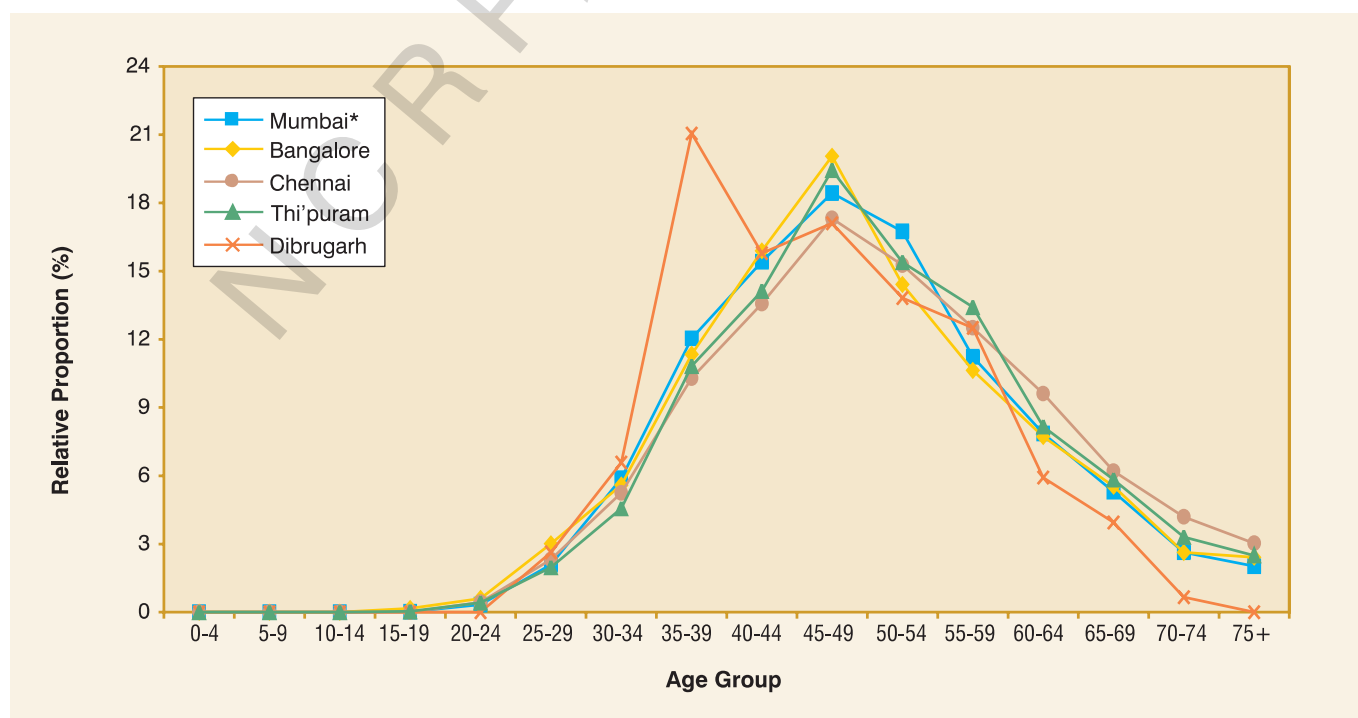


**Table 14.2: Number( # ) and Relative Proportion( % ) of Female Breast cancers according to five year age group (2004-2006)**

Age Group	Mumbai *		Bangalore		Chennai		Thi'puram		Dibrugarh	
	#	%	#	%	#	%	#	%	#	%
0-4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5-9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
10-14	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
15-19	1	0.0	3	0.2	0	0.0	1	0.0	0	0.0
20-24	14	0.3	11	0.6	13	0.4	13	0.4	0	0.0
25-29	88	2.1	55	3.0	68	2.3	61	2.0	4	2.6
30-34	248	5.9	102	5.6	154	5.2	141	4.6	10	6.6
35-39	507	12.0	207	11.3	302	10.3	334	10.8	32	21.1
40-44	649	15.4	290	15.9	398	13.6	436	14.1	24	15.8
45-49	776	18.4	366	20.1	508	17.3	600	19.4	26	17.1
50-54	705	16.7	263	14.4	448	15.3	475	15.4	21	13.8
55-59	473	11.2	194	10.6	367	12.5	414	13.4	19	12.5
60-64	331	7.9	141	7.7	282	9.6	252	8.2	9	5.9
65-69	223	5.3	101	5.5	182	6.2	180	5.8	6	3.9
70-74	111	2.6	48	2.6	123	4.2	102	3.3	1	0.7
75+	85	2.0	44	2.4	89	3.0	77	2.5	0	0.0
ANS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>All Ages</b>	<b>4211</b>	<b>100.0</b>	<b>1825</b>	<b>100.0</b>	<b>2934</b>	<b>100.0</b>	<b>3086</b>	<b>100.0</b>	<b>152</b>	<b>100.0</b>
<b>Mean</b>		49.0		48.9		50.6		50.1		46.4
<b>SD</b>		11.0		11.6		11.9		11.3		10.0

\* Only 2004-05 data

**Fig 14.2 : Five Year Age Group Distribution - Female Breast Cancer (2004-2006)**



**Table 14.3: Number(#) and Relative Proportion(%) of Female Breast cancers based on different Methods of Diagnosis (2004-2006)**

Registry	Microscopic		Clinical		All imaging techniques		Others		Total	
	#	%	#	%	#	%	#	%	#	%
<b>Mumbai*</b>	3913	92.9	3	0.1	2	0.0	293	7.0	4211	100.0
<b>Bangalore</b>	1756	96.2	33	1.8	2	0.1	34	1.9	1825	100.0
<b>Chennai</b>	2774	94.5	131	4.5	29	1.0	0	0.0	2934	100.0
<b>Thi'puram</b>	3056	99.0	27	0.9	3	0.1	0	0.0	3086	100.0
<b>Dibrugarh</b>	146	96.1	4	2.6	2	1.3	0	0.0	152	100.0

**Table 14.4: Number(#) and Relative Proportion(%) of Female Breast cancer patients according to the Clinical Extent of Disease (Excludes Patients Previously Treated) (2004-2006)**

Registry	Localised (L)		Regional (R)		L + R		Distant		Others		All Stages	
	#	%	#	%	#	%	#	%	#	%	#	%
<b>Mumbai*</b>	385	27.0	774	54.2	1159	81.2	227	15.9	41	2.9	1427	100.0
<b>Bangalore</b>	139	12.7	829	75.9	968	88.6	124	11.4	0	0.0	1092	100.0
<b>Chennai</b>	185	7.9	1887	80.4	2072	88.3	274	11.7	0	0.0	2346	100.0
<b>Thi'puram</b>	230	15.8	1031	70.9	1261	86.7	193	13.3	0	0.0	1454	100.0
<b>Dibrugarh</b>	3	2.3	101	75.9	104	78.2	21	15.8	8	6.0	133	100.0

**Table 14.5: Number(#) and Relative Proportion(%) of Female Breast cancer patients according to Broad Groups of Treatment(Tmt) (2004-2006)**

Treatment Group	Mumbai		Bangalore		Chennai		Thi'puram		Dibrugarh	
	#	%	#	%	#	%	#	%	#	%
Prior Tmt. Only	512	12.2	272	14.9	356	12.1	153	5.0	1	0.7
Prior Tmt. at RI	1058	25.1	451	24.7	232	7.9	1479	47.9	18	11.8
Tmt. Only at RI	1264	30.0	842	46.1	1558	53.1	1324	42.9	116	76.3
No Treatment	1377	32.7	260	14.2	788	26.9	130	4.2	17	11.2
<b>Total Patients</b>	<b>4211</b>	<b>100.0</b>	<b>1825</b>	<b>100.0</b>	<b>2934</b>	<b>100.0</b>	<b>3086</b>	<b>100.0</b>	<b>152</b>	<b>100.0</b>

\* Only 2004-05 data

**Table 14.6: Number(#) and Relative Proportion(%) of Female Breast Cancer patients according to Type of Treatment given(Patients treated only at Reporting Institution) (2004-2006)**

Type of Treatment	Mumbai *		Bangalore		Chennai		Thi'puram		Dibrugarh	
	#	%	#	%	#	%	#	%	#	%
<b>Total Patients</b>	<b>1263</b>	<b>100.0</b>	<b>842</b>	<b>100.0</b>	<b>1558</b>	<b>100.0</b>	<b>1324</b>	<b>100.0</b>	<b>116</b>	<b>100.0</b>
<b>Specific Treatments</b>										
Surgery (S)	78	6.2	87	10.3	22	1.4	59	4.5	48	41.4
Radiotherpay (R)	9	0.7	17	2.0	17	1.1	8	0.6	21	18.1
Chemotherapy (C)	119	9.4	120	14.3	71	4.6	90	6.8	6	5.2
S+R	16	1.3	81	9.6	4	0.3	26	2.0	17	14.7
S+C	119	9.4	141	16.7	16	1.0	324	24.5	20	17.2
R+C	17	1.3	31	3.7	140	9.0	35	2.6	4	3.4
S+R+C	388	30.7	259	30.8	209	13.4	409	30.9	0	0.0
Others	517	40.9	106	12.6	1079	69.3	373	28.2	0	0.0
<b>Modality of Therapy<sup>#</sup></b>										
Single	206	16.3	224	26.6	110	7.1	157	11.9	75	64.7
Combination	540	42.8	512	60.8	369	23.7	794	60.0	41	35.3
<b>Type of Any Treatment</b>										
Any Surgery	1081	85.6	568	67.5	251	16.1	818	61.8	85	73.3
Any R	821	65.0	388	46.1	370	23.7	478	36.1	42	36.2
Any C	1058	83.8	520	61.8	296	19.0	823	62.2	26	22.4

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

**Table 14.7: Number(#) & Relative proportion (%) of types of treatment according to Clinical Extent of Disease - Female Breast (2004-2006)**

Clinical Extent	Mumbai*		Bangalore		Chennai		Thi'puram		Dibrugarh	
	#	%	#	%	#	%	#	%	#	%
<b>Localised</b>										
Surgery (S)	35	13.1	18	21.4	7	4.8	15	9.7	2	66.7
Radiotherapy (R)	0	0.0	1	1.2	1	0.7	0	0.0	0	0.0
Chemotherapy (C)	7	2.6	5	6.0	2	1.4	0	0.0	0	0.0
S+R	8	3.0	13	15.5	0	0.0	3	1.9	0	0.0
S+C	30	11.2	28	33.3	7	4.8	68	43.9	1	33.3
R+C	0	0.0	2	2.4	8	5.4	1	0.6	0	0.0
S+R+C	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Others	188	70.1	17	20.2	122	83.0	68	43.9	0	0.0
<b>All Treatments</b>	<b>268</b>	<b>100.0</b>	<b>84</b>	<b>100.0</b>	<b>147</b>	<b>100.0</b>	<b>155</b>	<b>100.0</b>	<b>3</b>	<b>100.0</b>
<b>Regional</b>										
Surgery (S)	32	4.6	63	9.4	15	1.2	44	4.7	44	48.4
Radiotherapy (R)	0	0.0	12	1.8	10	0.8	6	0.6	11	12.1
Chemotherapy (C)	53	7.6	92	13.7	40	3.2	38	4.0	1	1.1
S+R	5	0.7	65	9.7	4	0.3	23	2.4	15	16.5
S+C	75	10.7	105	15.6	9	0.7	250	26.5	18	19.8
R+C	8	1.1	26	3.9	108	8.7	10	1.1	2	2.2
S+R+C	258	36.9	222	33.0	185	15.0	341	36.2	0	0.0
Others	268	38.3	87	12.9	866	70.0	230	24.4	0	0.0
<b>All Treatments</b>	<b>699</b>	<b>100.0</b>	<b>672</b>	<b>100.0</b>	<b>1237</b>	<b>100.0</b>	<b>942</b>	<b>100.0</b>	<b>91</b>	<b>100.0</b>
<b>Distant</b>										
Surgery (S)	3	1.8	6	10.3	0	0.0	0	0.0	2	11.8
Radiotherapy (R)	9	5.4	4	6.9	6	4.0	2	1.2	5	29.4
Chemotherapy (C)	59	35.3	23	39.7	29	19.3	52	31.3	5	29.4
S+R	1	0.6	3	5.2	0	0.0	0	0.0	2	11.8
S+C	9	5.4	8	13.8	0	0.0	6	3.6	1	5.9
R+C	9	5.4	3	5.2	24	16.0	24	14.5	2	11.8
S+R+C	27	16.2	9	15.5	0	0.0	7	4.2	0	0.0
Others	50	29.9	2	3.4	91	60.7	75	45.2	0	0.0
<b>All Treatments</b>	<b>167</b>	<b>100.0</b>	<b>58</b>	<b>100.0</b>	<b>150</b>	<b>100.0</b>	<b>166</b>	<b>100.0</b>	<b>17</b>	<b>100.0</b>
<b>Others</b>										
Surgery (S)	39	60.9	0	0.0	0	0.0	0	0.0	0	0.0
Radiotherapy (R)	0	0.0	0	0.0	0	0.0	0	0.0	5	100.0
Chemotherapy (C)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
S+R	2	3.1	0	0.0	0	0.0	0	0.0	0	0.0
S+C	5	7.8	0	0.0	0	0.0	0	0.0	0	0.0
R+C	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
S+R+C	7	10.9	0	0.0	0	0.0	0	0.0	0	0.0
Others	11	17.2	0	0.0	0	0.0	0	0.0	0	0.0
<b>All Treatments</b>	<b>64</b>	<b>100.0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>5</b>	<b>100.0</b>

\* Only 2004-05 data

**Table 14.8: Number(#) & proportion (%) of any specific treatment relative to all treated patients according to Clinical Extent of Disease - Female Breast (2004-2006)**

	Any Surgery		Any Radiotherapy		Any Chemotherapy		Any Others		Total Patients
	#	%	#	%	#	%	#	%	
<b>LOCALISED</b>									
Mumbai*	355	42.1	234	27.8	253	30.0	1	0.1	843
Bangalore	104	44.6	56	24.0	73	31.3	0	0.0	233
Chennai	146	35.2	128	30.8	137	33.0	4	1.0	415
Thi'puram	212	43.4	94	19.3	179	36.7	3	0.6	488
Dibrugarh	3	75.0	0	0.0	1	25.0	0	0.0	4
<b>REGIONAL</b>									
Mumbai*	628	35.6	498	28.2	633	35.9	5	0.3	1764
Bangalore	538	37.0	402	27.6	515	35.4	1	0.1	1456
Chennai	956	29.5	1115	34.4	1152	35.6	16	0.5	3239
Thi'puram	869	39.0	524	23.5	821	36.8	14	0.6	2228
Dibrugarh	77	61.1	28	22.2	21	16.7	0	0.0	126
<b>DISTANT</b>									
Mumbai*	64	22.1	73	25.3	150	51.9	2	0.7	289
Bangalore	27	29.7	19	20.9	45	49.5	0	0.0	91
Chennai	6	2.7	79	35.4	128	57.4	10	4.5	223
Thi'puram	22	9.4	55	23.4	142	60.4	16	6.8	235
Dibrugarh	5	22.7	9	40.9	8	36.4	0	0.0	22
<b>OTHERS</b>									
Mumbai*	33	47.8	15	21.7	21	30.4	0	0.0	69
Bangalore	0	0.0	0	0.0	0	0	0	0.0	0
Chennai	0	0.0	0	0.0	0	0	0	0.0	0
Thi'puram	0	0.0	0	0.0	0	0	0	0.0	0
Dibrugarh	0	0.0	5	100.0	0	0.0	0	0.0	5

\* Only 2004-05 data