

Chapter 3

SITES OF CANCER ASSOCIATED WITH THE USE OF TOBACCO

This chapter indicates the impact of the use of tobacco on the occurrence of cancer through overall proportions and specific anatomical sites of cancer. Incidence rates of each site by five year age group and sex for each PBCR is available in the Annexure tables on the website (www.ncrpindia.org). In planning tobacco control activity across the country the above parameters are critical. Most importantly, the incidence and relative proportion of specific sites of cancer associated with the use of tobacco varies according to the type of tobacco and the manner of its consumption.

Table 3.1 gives the number and relative proportion of Tobacco Related Cancers (IARC - 1987) in different PBCRs. East Khasi Hills District of Meghalaya had the highest relative proportion of cancers associated with the use of tobacco for males and females at 69.3% and 43.0% respectively when compared to all sites of cancers. The lowest proportion of tobacco related cancers was among females in Thiruvananthapuram with 10.3% of cancers being associated with the use of tobacco.

Figure 3.1 depicts the proportion of tobacco related cancers relative to all sites for 25 PBCRs. Table 3.2 depicts a detailed proportion of tobacco related cancers relative to all sites.

Table 3.3 and figure 3.2 illustrates the proportion of specific sites of cancer among all tobacco related cancers (TRCs) for 25 PBCRs. In males, mouth cancer was the leading site in ten registries, its contribution ranging from 22.6% in Barshi Expanded to 39.6% in Wardha, oesophagus cancer was the leading site in seven registries, its contribution ranging from 19.9% in Cachar District to 45.1% in Meghalaya, lung cancer was the leading site in eight registries, its contribution ranging from 24.7% in Delhi to 48.9% in Manipur state.

In females, mouth cancer, oesophageal cancer and lung cancer were the leading sites among the tobacco related cancers. Mouth cancer and lung cancer contributed to 48.2% of TRCs in Chennai. Similarly, mouth cancer and oesophageal cancer contributed to 66.6% of TRCs in Nagaland. Lung cancer contributed to 67.9% and 72.8% of TRCs in Manipur State and Mizoram State respectively. In Meghalaya, 54.7% of TRCs belong to oesophageal cancer.

Most importantly, the incidence and relative proportion of specific sites of cancer associated with the use of tobacco varies according to the type of tobacco and the manner of its consumption.

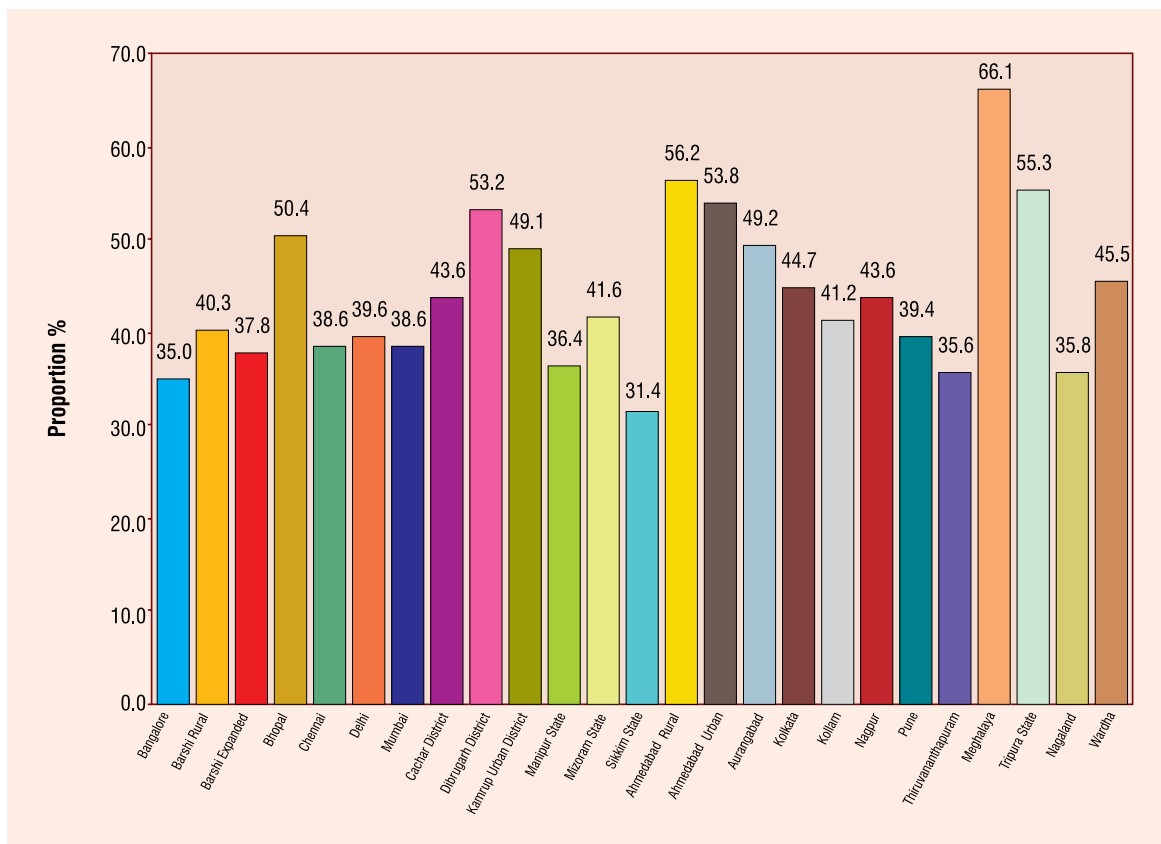
East Khasi Hills District of Meghalaya had the highest relative proportion of cancers associated with the use of tobacco for males and females at 69.3% and 43.0% respectively when compared to all sites of cancers.

Table 3.1: Number (#) and Relative Proportion (%) of TRCs

Registry	Male		Female	
	#	%	#	%
Bangalore (2008-2009)	2111	35.0	1120	15.2
Barshi Rural (2009-2010)	110	40.3	39	12.9
Barshi Expanded (2009)	301	37.8	130	13.4
Bhopal (2009-2010)	749	50.4	243	16.9
Chennai (2009)	1011	38.6	395	14.1
Delhi (2008-2009)	6019	39.6	1602	11.6
Mumbai (2009-2010)	4285	38.6	1632	13.9
Cachar District (2009-2010)	689	43.6	289	22.9
Dibrugarh District (2009-2011)	765	53.2	249	23.7
Kamrup Urban District (2009-2011)	1232	49.1	491	25.7
Manipur State (MR) (2009-2010)	507	36.4	312	21.1
<i>Imphal West District</i> (2009-2010)	144	38.2	81	19.4
<i>MR - Excl. Imphal West</i> (2009-2010)	363	35.7	231	21.8
Mizoram State (MZ) (2009-2010)	572	41.6	257	23.2
<i>Aizawl District</i> (2009-2010)	330	47.4	134	22.4
<i>MZ - Excl. Aizawl</i> (2009-2010)	242	35.6	123	24.1
Sikkim State (2009-2011)	197	31.4	120	20.5
Ahmedabad - Rural (2009-2010)	559	56.2	138	19.0
Ahmedabad - Urban (2009-2010)	2441	53.8	576	16.6
Aurangabad (2009-2010)	248	49.2	85	15.7
Kolkata (2008-2009)	2294	44.7	675	14.1
Kollam (2009-2010)	1389	41.2	397	12.7
Nagpur (2008-2009)	892	43.6	323	14.3
Pune (2009-2010)	1133	39.4	493	16.2
Thiruvananthapuram (2009-2011)	885	35.6	272	10.3
Meghalaya (2010-2011)	1004	66.1	344	40.0
<i>East Khasi Hills</i> (2010-2011)	654	69.3	242	43.0
Tripura State (2010)	581	55.3	161	20.5
Nagaland (2010)	78	35.8	12	10.9
Wardha (2010-2011)	346	45.5	182	22.1

Fig. 3.1: Proportion (%) of Tobacco Related Cancers (TRCs) Relative to All Sites of Cancers

Males



Females

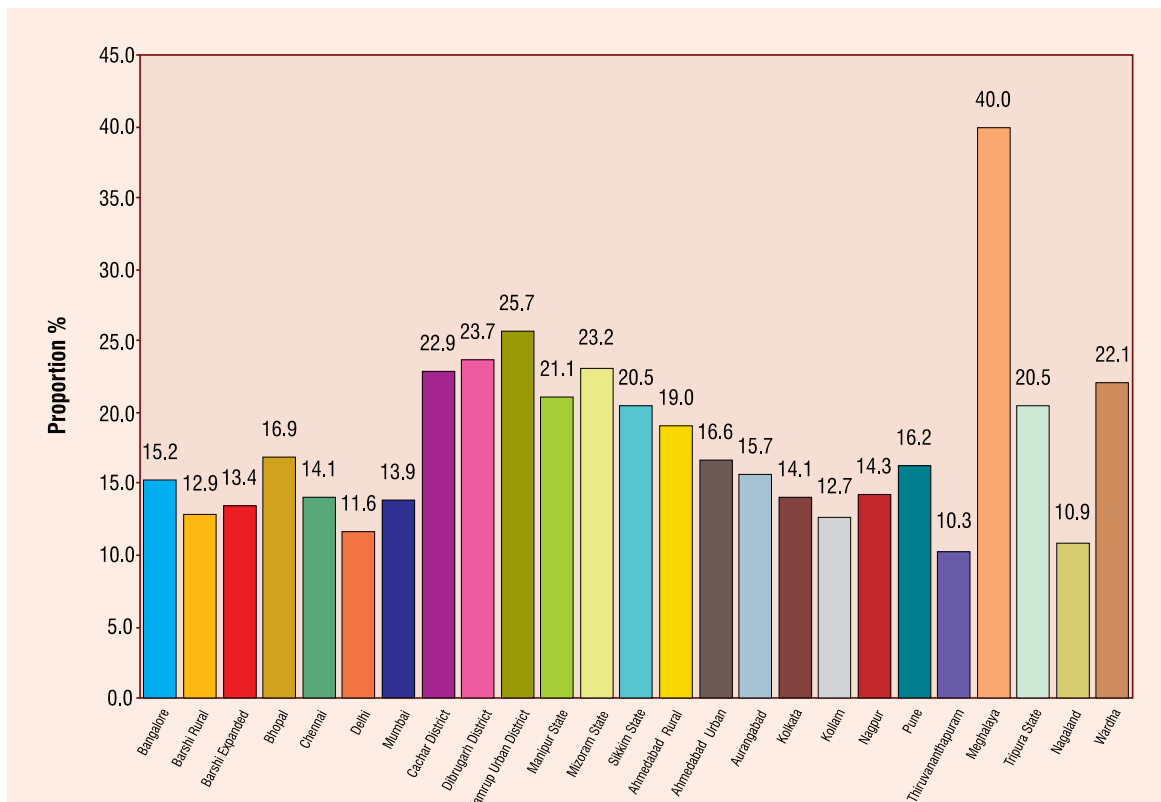


Table 3.2: Number(#) and Proportion(%) of Tobacco Related Cancers (TRC) relative to all sites of Cancer

Sites of Cancer	Bangalore		Barshi Rural		Barshi Expanded		Bhopal		Chennai		Delhi		Mumbai	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Lip	8	0.1	3	1.1	7	0.9	6	0.4	8	0.3	86	0.6	42	0.4
Tongue	269	4.5	10	3.7	47	5.9	136	9.1	169	6.5	976	6.4	543	4.9
Mouth	236	3.9	30	11.0	68	8.5	187	12.6	150	5.7	879	5.8	1022	9.2
Oropharynx	56	0.9	1	0.4	6	0.8	7	0.5	35	1.3	165	1.1	79	0.7
Hypopharynx	219	3.6	10	3.7	21	2.6	70	4.7	71	2.7	249	1.6	268	2.4
Pharynx	57	0.9	3	1.1	4	0.5	6	0.4	11	0.4	44	0.3	59	0.5
Oesophagus	383	6.4	23	8.4	57	7.2	66	4.4	138	5.3	559	3.7	451	4.1
Larynx	188	3.1	10	3.7	38	4.8	80	5.4	99	3.8	836	5.5	514	4.6
Lung	532	8.8	10	3.7	36	4.5	156	10.5	272	10.4	1486	9.8	917	8.3
Urinary Bladder	163	2.7	10	3.7	17	2.1	35	2.4	58	2.2	739	4.9	390	3.5
TRC	2111	35.0	110	40.3	301	37.8	749	50.4	1011	38.6	6019	39.6	4285	38.6
All Sites	6026	100.0	273	100.0	797	100.0	1487	100.0	2619	100.0	15189	100.0	11091	100.0
FEMALES														
Lip	7	0.1	-	-	-	-	2	0.1	3	0.1	17	0.1	27	0.2
Tongue	65	0.9	8	2.6	37	3.8	35	2.4	43	1.5	255	1.8	206	1.7
Mouth	310	4.2	4	1.3	26	2.7	72	5.0	95	3.4	256	1.8	432	3.7
Oropharynx	7	0.1	-	-	-	-	3	0.2	5	0.2	23	0.2	11	0.1
Hypopharynx	38	0.5	-	-	10	1.0	5	0.3	39	1.4	27	0.2	73	0.6
Pharynx	20	0.3	-	-	3	0.3	1	0.1	5	0.2	12	0.1	27	0.2
Oesophagus	339	4.6	17	5.6	32	3.3	63	4.4	89	3.2	306	2.2	305	2.6
Larynx	24	0.3	2	0.7	4	0.4	9	0.6	8	0.3	106	0.8	72	0.6
Lung	244	3.3	5	1.7	10	1.0	47	3.3	95	3.4	430	3.1	372	3.2
Urinary Bladder	66	0.9	3	1.0	8	0.8	6	0.4	13	0.5	170	1.2	107	0.9
TRC	1120	15.2	39	12.9	130	13.4	243	16.9	395	14.1	1602	11.6	1632	13.9
All Sites	7389	100.0	302	100.0	968	100.0	1441	100.0	2796	100.0	13838	100.0	11773	100.0

Table 3.2: Number(#) and Proportion(%) of Tobacco Related Cancers (TRC) relative to all sites of Cancer (contd...)

Sites of Cancer	Cachar District		Dibrugarh District		Kamrup Urban District		Manipur State (MR)		Imphal West District		MR - Excl. Imphal West	
	#	%	#	%	#	%	#	%	#	%	#	%
MALES												
Lip	15	0.9	4	0.3	3	0.1	2	0.1	1	0.3	1	0.1
Tongue	86	5.4	63	4.4	136	5.4	34	2.4	13	3.4	21	2.1
Mouth	60	3.8	129	9.0	107	4.3	30	2.2	8	2.1	22	2.2
Oropharynx	22	1.4	27	1.9	53	2.1	9	0.6	4	1.1	5	0.5
Hypopharynx	120	7.6	171	11.9	207	8.3	34	2.4	13	3.4	21	2.1
Pharynx	16	1.0	31	2.2	31	1.2	-	-	-	-	-	-
Oesophagus	137	8.7	212	14.7	363	14.5	73	5.2	23	6.1	50	4.9
Larynx	80	5.1	46	3.2	104	4.1	38	2.7	11	2.9	27	2.7
Lung	120	7.6	57	4.0	183	7.3	248	17.8	56	14.9	192	18.9
Urinary Bladder	33	2.1	25	1.7	45	1.8	39	2.8	15	4.0	24	2.4
TRC	689	43.6	765	53.2	1232	49.1	507	36.4	144	38.2	363	35.7
All Sites	1579	100.0	1438	100.0	2508	100.0	1393	100.0	377	100.0	1016	100.0
FEMALES												
Lip	7	0.6	3	0.3	5	0.3	4	0.3	-	-	4	0.4
Tongue	36	2.9	18	1.7	38	2.0	14	0.9	2	0.5	12	1.1
Mouth	36	2.9	56	5.3	81	4.2	16	1.1	6	1.4	10	0.9
Oropharynx	7	0.6	2	0.2	13	0.7	1	0.1	-	-	1	0.1
Hypopharynx	31	2.5	28	2.7	40	2.1	7	0.5	2	0.5	5	0.5
Pharynx	9	0.7	5	0.5	8	0.4	1	0.1	-	-	1	0.1
Oesophagus	100	7.9	104	9.9	199	10.4	32	2.2	6	1.4	26	2.5
Larynx	16	1.3	4	0.4	12	0.6	11	0.7	1	0.2	10	0.9
Lung	43	3.4	23	2.2	83	4.4	212	14.3	56	13.4	156	14.7
Urinary Bladder	4	0.3	6	0.6	12	0.6	14	0.9	8	1.9	6	0.6
TRC	289	22.9	249	23.7	491	25.7	312	21.1	81	19.4	231	21.8
All Sites	1263	100.0	1050	100.0	1908	100.0	1478	100.0	418	100.0	1060	100.0

Table 3.2: Number(#) and Proportion(%) of Tobacco Related Cancers (TRC) relative to all sites of Cancer (contd...)

Sites of Cancer	Mizoram State (MZ)		Aizawl District		MZ - Excl. Aizawl		Sikkim State		Ahmedabad Rural		Ahmedabad Urban	
	#	%	#	%	#	%	#	%	#	%	#	%
MALES												
Lip	-	-	-	-	-	-	1	0.2	5	0.5	38	0.8
Tongue	28	2.0	16	2.3	12	1.8	14	2.2	134	13.5	514	11.3
Mouth	15	1.1	9	1.3	6	0.9	22	3.5	138	13.9	770	17.0
Oropharynx	5	0.4	4	0.6	1	0.1	2	0.3	8	0.8	25	0.6
Hypopharynx	64	4.7	42	6.0	22	3.2	14	2.2	54	5.4	168	3.7
Pharynx	17	1.2	8	1.1	9	1.3	4	0.6	16	1.6	60	1.3
Oesophagus	199	14.5	115	16.5	84	12.4	53	8.5	49	4.9	253	5.6
Larynx	38	2.8	24	3.4	14	2.1	23	3.7	39	3.9	169	3.7
Lung	191	13.9	105	15.1	86	12.6	46	7.3	101	10.2	364	8.0
Urinary Bladder	15	1.1	7	1.0	8	1.2	18	2.9	15	1.5	80	1.8
TRC	572	41.6	330	47.4	242	35.6	197	31.4	559	56.2	2441	53.8
All Sites	1376	100.0	696	100.0	680	100.0	627	100.0	995	100.0	4533	100.0
FEMALES												
Lip	-	-	-	-	-	-	-	-	4	0.6	7	0.2
Tongue	4	0.4	2	0.3	2	0.4	9	1.5	29	4.0	130	3.8
Mouth	5	0.5	3	0.5	2	0.4	16	2.7	40	5.5	126	3.6
Oropharynx	1	0.1	1	0.2	-	-	2	0.3	1	0.1	1	0.0
Hypopharynx	5	0.5	-	-	5	1.0	3	0.5	12	1.7	36	1.0
Pharynx	3	0.3	2	0.3	1	0.2	2	0.3	6	0.8	8	0.2
Oesophagus	45	4.1	19	3.2	26	5.1	35	6.0	24	3.3	137	4.0
Larynx	5	0.5	1	0.2	4	0.8	3	0.5	2	0.3	20	0.6
Lung	187	16.9	105	17.6	82	16.1	45	7.7	18	2.5	91	2.6
Urinary Bladder	2	0.2	1	0.2	1	0.2	5	0.9	2	0.3	20	0.6
TRC	257	23.2	134	22.4	123	24.1	120	20.5	138	19.0	576	16.6
All Sites	1107	100.0	597	100.0	510	100.0	585	100.0	726	100.0	3460	100.0

Table 3.2: Number(#) and Proportion(%) of Tobacco Related Cancers (TRC) relative to all sites of Cancer (contd...)

Sites of Cancer	Aurangabad		Kolkata		Kollam		Nagpur		Pune		Thiruvananthapuram	
	#	%	#	%	#	%	#	%	#	%	#	%
MALES												
Lip	3	0.6	21	0.4	6	0.2	6	0.3	8	0.3	9	0.4
Tongue	31	6.2	197	3.8	137	4.1	139	6.8	144	5.0	120	4.8
Mouth	64	12.7	351	6.8	171	5.1	266	13.0	294	10.2	132	5.3
Oropharynx	3	0.6	17	0.3	63	1.9	14	0.7	17	0.6	53	2.1
Hypopharynx	25	5.0	114	2.2	70	2.1	56	2.7	47	1.6	45	1.8
Pharynx	3	0.6	27	0.5	5	0.1	11	0.5	10	0.3	2	0.1
Oesophagus	28	5.6	155	3.0	150	4.4	121	5.9	161	5.6	77	3.1
Larynx	32	6.3	275	5.4	128	3.8	122	6.0	170	5.9	107	4.3
Lung	39	7.7	920	17.9	550	16.3	112	5.5	190	6.6	271	10.9
Urinary Bladder	20	4.0	217	4.2	109	3.2	45	2.2	92	3.2	69	2.8
TRC	248	49.2	2294	44.7	1389	41.2	892	43.6	1133	39.4	885	35.6
All Sites	504	100.0	5127	100.0	3375	100.0	2047	100.0	2876	100.0	2483	100.0
FEMALES												
Lip	-	-	4	0.1	14	0.4	8	0.4	9	0.3	4	0.2
Tongue	10	1.9	100	2.1	82	2.6	41	1.8	47	1.5	64	2.4
Mouth	16	3.0	141	2.9	125	4.0	88	3.9	138	4.5	66	2.5
Oropharynx	1	0.2	4	0.1	9	0.3	1	0.0	-	-	2	0.1
Hypopharynx	8	1.5	9	0.2	8	0.3	16	0.7	18	0.6	4	0.2
Pharynx	3	0.6	3	0.1	2	0.1	3	0.1	3	0.1	-	-
Oesophagus	23	4.3	82	1.7	47	1.5	101	4.5	120	3.9	21	0.8
Larynx	3	0.6	37	0.8	7	0.2	12	0.5	23	0.8	12	0.5
Lung	18	3.3	240	5.0	95	3.0	44	2.0	101	3.3	85	3.2
Urinary Bladder	3	0.6	55	1.1	8	0.3	9	0.4	34	1.1	14	0.5
TRC	85	15.7	675	14.1	397	12.7	323	14.3	493	16.2	272	10.3
All Sites	540	100.0	4786	100.0	3128	100.0	2253	100.0	3051	100.0	2649	100.0

Table 3.2: Number(#) and Proportion(%) of Tobacco Related Cancers (TRC) relative to all sites of Cancer (contd...)

Sites of Cancer	Meghalaya		East Khasi Hills		Tripura State		Nagaland		Wardha	
	#	%	#	%	#	%	#	%	#	%
MALES										
Lip	5	0.3	3	0.3	3	0.3	1	0.5	4	0.5
Tongue	59	3.9	38	4.0	65	6.2	7	3.2	40	5.3
Mouth	79	5.2	46	4.9	43	4.1	6	2.8	137	18.0
Oropharynx	21	1.4	16	1.7	13	1.2	2	0.9	8	1.1
Hypopharynx	175	11.5	100	10.6	76	7.2	17	7.8	21	2.8
Pharynx	41	2.7	26	2.8	12	1.1	-	-	5	0.7
Oesophagus	453	29.8	323	34.2	94	8.9	35	16.1	44	5.8
Larynx	73	4.8	46	4.9	70	6.7	4	1.8	21	2.8
Lung	90	5.9	52	5.5	198	18.8	5	2.3	49	6.4
Urinary Bladder	8	0.5	4	0.4	7	0.7	1	0.5	17	2.2
TRC	1004	66.1	654	69.3	581	55.3	78	35.8	346	45.5
All Sites	1520	100.0	944	100.0	1051	100.0	218	100.0	760	100.0
FEMALES										
Lip	12	1.4	9	1.6	2	0.3	-	-	1	0.1
Tongue	26	3.0	15	2.7	32	4.1	1	0.9	27	3.3
Mouth	58	6.8	35	6.2	26	3.3	4	3.6	64	7.8
Oropharynx	1	0.1	1	0.2	3	0.4	-	-	-	-
Hypopharynx	18	2.1	12	2.1	10	1.3	-	-	7	0.9
Pharynx	6	0.7	4	0.7	3	0.4	-	-	-	-
Oesophagus	188	21.9	140	24.9	40	5.1	4	3.6	49	6.0
Larynx	6	0.7	3	0.5	8	1.0	1	0.9	6	0.7
Lung	27	3.1	21	3.7	32	4.1	1	0.9	23	2.8
Urinary Bladder	2	0.2	2	0.4	5	0.6	1	0.9	5	0.6
TRC	344	40.0	242	43.0	161	20.5	12	10.9	182	22.1
All Sites	859	100.0	563	100.0	785	100.0	110	100.0	822	100.0

Table 3.3: Number (#) and Proportion(%) of specific sites of cancer among all Tobacco Related Cancers (TRC)

Sites of Cancer	Bangalore		Barshi Rural		Barshi Expanded		Bhopal		Chennai		Delhi		Mumbai	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MALES														
Lip	8	0.4	3	2.7	7	2.3	6	0.8	8	0.8	86	1.4	42	1.0
Tongue	269	12.7	10	9.1	47	15.6	136	18.2	169	16.7	976	16.2	543	12.7
Mouth	236	11.2	30	27.3	68	22.6	187	25.0	150	14.8	879	14.6	1022	23.9
Oropharynx	56	2.7	1	0.9	6	2.0	7	0.9	35	3.5	165	2.7	79	1.8
Hypopharynx	219	10.4	10	9.1	21	7.0	70	9.3	71	7.0	249	4.1	268	6.3
Pharynx	57	2.7	3	2.7	4	1.3	6	0.8	11	1.1	44	0.7	59	1.4
Oesophagus	383	18.1	23	20.9	57	18.9	66	8.8	138	13.6	559	9.3	451	10.5
Larynx	188	8.9	10	9.1	38	12.6	80	10.7	99	9.8	836	13.9	514	12.0
Lung	532	25.2	10	9.1	36	12.0	156	20.8	272	26.9	1486	24.7	917	21.4
Urinary Bladder	163	7.7	10	9.1	17	5.6	35	4.7	58	5.7	739	12.3	390	9.1
TRC	2111	100.0	110	100.0	301	100.0	749	100.0	1011	100.0	6019	100.0	4285	100.0
FEMALES														
Lip	7	0.6	-	-	-	-	2	0.8	3	0.8	17	1.1	27	1.7
Tongue	65	5.8	8	20.5	37	28.5	35	14.4	43	10.9	255	15.9	206	12.6
Mouth	310	27.7	4	10.3	26	20.0	72	29.6	95	24.1	256	16.0	432	26.5
Oropharynx	7	0.6	-	-	-	-	3	1.2	5	1.3	23	1.4	11	0.7
Hypopharynx	38	3.4	-	-	10	7.7	5	2.1	39	9.9	27	1.7	73	4.5
Pharynx	20	1.8	-	-	3	2.3	1	0.4	5	1.3	12	0.7	27	1.7
Oesophagus	339	30.3	17	43.6	32	24.6	63	25.9	89	22.5	306	19.1	305	18.7
Larynx	24	2.1	2	5.1	4	3.1	9	3.7	8	2.0	106	6.6	72	4.4
Lung	244	21.8	5	12.8	10	7.7	47	19.3	95	24.1	430	26.8	372	22.8
Urinary Bladder	66	5.9	3	7.7	8	6.2	6	2.5	13	3.3	170	10.6	107	6.6
TRC	1120	100.0	39	100.0	130	100.0	243	100.0	395	100.0	1602	100.0	1632	100.0

Table 3.3: Number (#) and Proportion(%) of specific sites of cancer among all Tobacco Related Cancers (TRC) (contd...)

Sites of Cancer	Cachar District		Dibrugarh District		Kamrup Urban District		Manipur State (MR)		Imphal West District		MR - Excl. Imphal West	
	#	%	#	%	#	%	#	%	#	%	#	%
MALES												
Lip	15	2.2	4	0.5	3	0.2	2	0.4	1	0.7	1	0.3
Tongue	86	12.5	63	8.2	136	11.0	34	6.7	13	9.0	21	5.8
Mouth	60	8.7	129	16.9	107	8.7	30	5.9	8	5.6	22	6.1
Oropharynx	22	3.2	27	3.5	53	4.3	9	1.8	4	2.8	5	1.4
Hypopharynx	120	17.4	171	22.4	207	16.8	34	6.7	13	9.0	21	5.8
Pharynx	16	2.3	31	4.1	31	2.5	-	-	-	-	-	-
Oesophagus	137	19.9	212	27.7	363	29.5	73	14.4	23	16.0	50	13.8
Larynx	80	11.6	46	6.0	104	8.4	38	7.5	11	7.6	27	7.4
Lung	120	17.4	57	7.5	183	14.9	248	48.9	56	38.9	192	52.9
Urinary Bladder	33	4.8	25	3.3	45	3.7	39	7.7	15	10.4	24	6.6
TRC	689	100.0	765	100.0	1232	100.0	507	100.0	144	100.0	363	100.0
FEMALES												
Lip	7	2.4	3	1.2	5	1.0	4	1.3	-	-	4	1.7
Tongue	36	12.5	18	7.2	38	7.7	14	4.5	2	2.5	12	5.2
Mouth	36	12.5	56	22.5	81	16.5	16	5.1	6	7.4	10	4.3
Oropharynx	7	2.4	2	0.8	13	2.6	1	0.3	-	-	1	0.4
Hypopharynx	31	10.7	28	11.2	40	8.1	7	2.2	2	2.5	5	2.2
Pharynx	9	3.1	5	2.0	8	1.6	1	0.3	-	-	1	0.4
Oesophagus	100	34.6	104	41.8	199	40.5	32	10.3	6	7.4	26	11.3
Larynx	16	5.5	4	1.6	12	2.4	11	3.5	1	1.2	10	4.3
Lung	43	14.9	23	9.2	83	16.9	212	67.9	56	69.1	156	67.5
Urinary Bladder	4	1.4	6	2.4	12	2.4	14	4.5	8	9.9	6	2.6
TRC	289	100.0	249	100.0	491	100.0	312	100.0	81	100.0	231	100.0

Table 3.3: Number (#) and Proportion(%) of specific sites of cancer among all Tobacco Related Cancers (TRC) (contd.)

Sites of Cancer	Mizoram State (MZ)		Aizawl District		MZ - Excl. Aizawl		Sikkim State		Ahmedabad Rural		Ahmedabad Urban	
	#	%	#	%	#	%	#	%	#	%	#	%
MALES												
Lip	-	-	-	-	-	-	1	0.5	5	0.9	38	1.6
Tongue	28	4.9	16	4.8	12	5.0	14	7.1	134	24.0	514	21.1
Mouth	15	2.6	9	2.7	6	2.5	22	11.2	138	24.7	770	31.5
Oropharynx	5	0.9	4	1.2	1	0.4	2	1.0	8	1.4	25	1.0
Hypopharynx	64	11.2	42	12.7	22	9.1	14	7.1	54	9.7	168	6.9
Pharynx	17	3.0	8	2.4	9	3.7	4	2.0	16	2.9	60	2.5
Oesophagus	199	34.8	115	34.8	84	34.7	53	26.9	49	8.8	253	10.4
Larynx	38	6.6	24	7.3	14	5.8	23	11.7	39	7.0	169	6.9
Lung	191	33.4	105	31.8	86	35.5	46	23.4	101	18.1	364	14.9
Urinary Bladder	15	2.6	7	2.1	8	3.3	18	9.1	15	2.7	80	3.3
TRC	572	100.0	330	100.0	242	100.0	197	100.0	559	100.0	2441	100.0
FEMALES												
Lip	-	-	-	-	-	-	-	-	4	2.9	7	1.2
Tongue	4	1.6	2	1.5	2	1.6	9	7.5	29	21.0	130	22.6
Mouth	5	1.9	3	2.2	2	1.6	16	13.3	40	29.0	126	21.9
Oropharynx	1	0.4	1	0.7	-	-	2	1.7	1	0.7	1	0.2
Hypopharynx	5	1.9	-	-	5	4.1	3	2.5	12	8.7	36	6.3
Pharynx	3	1.2	2	1.5	1	0.8	2	1.7	6	4.3	8	1.4
Oesophagus	45	17.5	19	14.2	26	21.1	35	29.2	24	17.4	137	23.8
Larynx	5	1.9	1	0.7	4	3.3	3	2.5	2	1.4	20	3.5
Lung	187	72.8	105	78.4	82	66.7	45	37.5	18	13.0	91	15.8
Urinary Bladder	2	0.8	1	0.7	1	0.8	5	4.2	2	1.4	20	3.5
TRC	257	100.0	134	100.0	123	100.0	120	100.0	138	100.0	576	100.0

Table 3.3: Number (#) and Proportion(%) of specific sites of cancer among all Tobacco Related Cancers (TRC) (contd.)

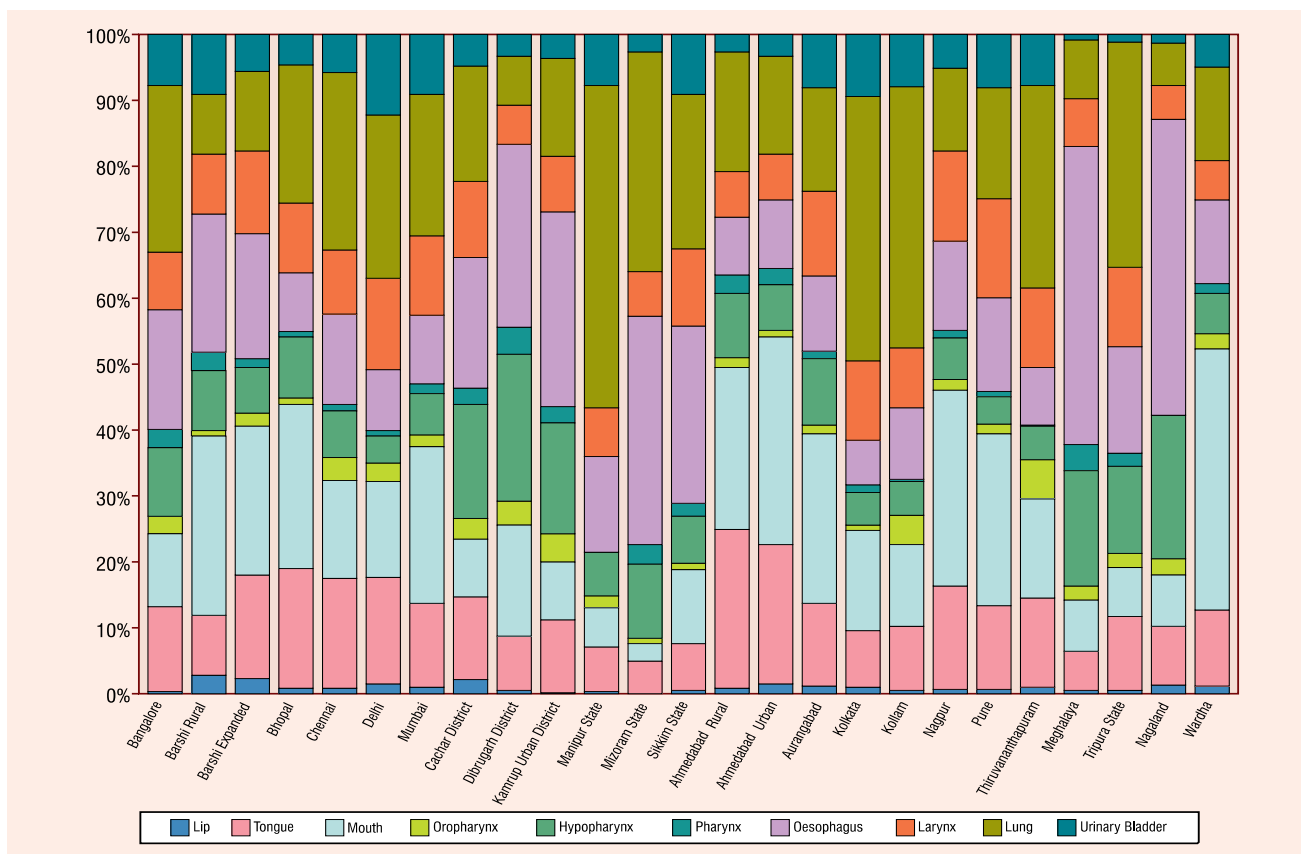
Sites of Cancer	Aurangabad		Kolkata		Kollam		Nagpur		Pune		Thiruvananthapuram	
	#	%	#	%	#	%	#	%	#	%	#	%
MALES												
Lip	3	1.2	21	0.9	6	0.4	6	0.7	8	0.7	9	1.0
Tongue	31	12.5	197	8.6	137	9.9	139	15.6	144	12.7	120	13.6
Mouth	64	25.8	351	15.3	171	12.3	266	29.8	294	25.9	132	14.9
Oropharynx	3	1.2	17	0.7	63	4.5	14	1.6	17	1.5	53	6.0
Hypopharynx	25	10.1	114	5.0	70	5.0	56	6.3	47	4.1	45	5.1
Pharynx	3	1.2	27	1.2	5	0.4	11	1.2	10	0.9	2	0.2
Oesophagus	28	11.3	155	6.8	150	10.8	121	13.6	161	14.2	77	8.7
Larynx	32	12.9	275	12.0	128	9.2	122	13.7	170	15.0	107	12.1
Lung	39	15.7	920	40.1	550	39.6	112	12.6	190	16.8	271	30.6
Urinary Bladder	20	8.1	217	9.5	109	7.8	45	5.0	92	8.1	69	7.8
TRC	248	100.0	2294	100.0	1389	100.0	892	100.0	1133	100.0	885	100.0
FEMALES												
Lip	-	-	4	0.6	14	3.5	8	2.5	9	1.8	4	1.5
Tongue	10	11.8	100	14.8	82	20.7	41	12.7	47	9.5	64	23.5
Mouth	16	18.8	141	20.9	125	31.5	88	27.2	138	28.0	66	24.3
Oropharynx	1	1.2	4	0.6	9	2.3	1	0.3	-	-	2	0.7
Hypopharynx	8	9.4	9	1.3	8	2.0	16	5.0	18	3.7	4	1.5
Pharynx	3	3.5	3	0.4	2	0.5	3	0.9	3	0.6	-	-
Oesophagus	23	27.1	82	12.1	47	11.8	101	31.3	120	24.3	21	7.7
Larynx	3	3.5	37	5.5	7	1.8	12	3.7	23	4.7	12	4.4
Lung	18	21.2	240	35.6	95	23.9	44	13.6	101	20.5	85	31.3
Urinary Bladder	3	3.5	55	8.1	8	2.0	9	2.8	34	6.9	14	5.1
TRC	85	100.0	675	100.0	397	100.0	323	100.0	493	100.0	272	100.0

Table 3.3: Number (#) and Proportion(%) of specific sites of cancer among all Tobacco Related Cancers (TRC) (contd.)

Sites of Cancer	Meghalaya		East Khasi Hills		Tripura State		Nagaland		Wardha	
	#	%	#	%	#	%	#	%	#	%
MALES										
Lip	5	0.5	3	0.5	3	0.5	1	1.3	4	1.2
Tongue	59	5.9	38	5.8	65	11.2	7	9.0	40	11.6
Mouth	79	7.9	46	7.0	43	7.4	6	7.7	137	39.6
Oropharynx	21	2.1	16	2.4	13	2.2	2	2.6	8	2.3
Hypopharynx	175	17.4	100	15.3	76	13.1	17	21.8	21	6.1
Pharynx	41	4.1	26	4.0	12	2.1	-	-	5	1.4
Oesophagus	453	45.1	323	49.4	94	16.2	35	44.9	44	12.7
Larynx	73	7.3	46	7.0	70	12.0	4	5.1	21	6.1
Lung	90	9.0	52	8.0	198	34.1	5	6.4	49	14.2
Urinary Bladder	8	0.8	4	0.6	7	1.2	1	1.3	17	4.9
TRC	1004	100.0	654	100.0	581	100.0	78	100.0	346	100.0
FEMALES										
Lip	12	3.5	9	3.7	2	1.2	-	-	1	0.5
Tongue	26	7.6	15	6.2	32	19.9	1	8.3	27	14.8
Mouth	58	16.9	35	14.5	26	16.1	4	33.3	64	35.2
Oropharynx	1	0.3	1	0.4	3	1.9	-	-	-	-
Hypopharynx	18	5.2	12	5.0	10	6.2	-	-	7	3.8
Pharynx	6	1.7	4	1.7	3	1.9	-	-	-	-
Oesophagus	188	54.7	140	57.9	40	24.8	4	33.3	49	26.9
Larynx	6	1.7	3	1.2	8	5.0	1	8.3	6	3.3
Lung	27	7.8	21	8.7	32	19.9	1	8.3	23	12.6
Urinary Bladder	2	0.6	2	0.8	5	3.1	1	8.3	5	2.7
TRC	344	100.0	242	100.0	161	100.0	12	100.0	182	100.0

Fig. 3.2: Proportion (%) of Specific Tobacco Related Sites relative to all Tobacco Related Cancers (TRCs)

Males



Females

