

## Karnataka and Andhra Pradesh States

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## STATES OF KARNATAKA & ANDHRA PRADESH

### KARNATAKA STATE:

Figure 5(M) gives the Map of India highlighting Karnataka State and Figure 5(N) gives the Map of Karnataka State highlighting the Districts where the MAAR was above 36.2 /100,000.

There were 12 districts in Karnataka that had a MAAR higher than 36.2/100,000. These 12 districts in the descending order of their MAAR were: Dakshina Kannada, Udupi, Bangalore Rural, Mysore, Kodagu, Shimoga, Hassan, Kolar, Uttara Kannada, Mandya, Chikmagalur and Chamrajanagar.

**Leading Sites of Cancer in Males:** Cancer of the oesophagus was the leading site in six of the districts constituting from 8.9% of cancers in Mandya to almost 15% of cancers in males in Chikmagalur. Cancer of the stomach was the second leading site of cancer in Udupi and Shimoga districts, the third leading site in Kolar district and the fourth leading site in Dakshina Kannada, Mysore and Chikmagalur. The Bangalore Urban PBCR has been recording cancer stomach as the leading site of cancer for almost the past 20 years. However, the Bangalore rural district shows stomach as the fifth leading site of cancer. Cancer of the lung was the second leading site in Dakshina Kannada, Mysore, Hassan and Mandya. All in all, apart from cancer stomach the tobacco related cancers predominate in the ten leading sites. Cancer of the prostate figures in the ten leading sites in Dakshina Kannada and Udupi but not in others.

**Leading Sites of Cancer in Females:** In all the districts, except Dakshina Kannada (where cancer breast is followed by cancer cervix) cancer cervix was the leading site followed by cancer breast. Cancer of the thyroid gland was the third leading site in Dakshina Kannada and this site, figures as one of ten leading sites in all the districts except Chikmagalur.

**Centre-wise Distribution of Cancers:** Kasturba Medical College Hospitals at Mangalore and Manipal were the main referral centres for the districts of Dakshina Kannada and Udupi and also partly to the patients from the districts of Uttara Kannada, Chikmagalur, Shimoga and Hassan. The Bangalore HBCR at Kidwai Memorial Institute of Oncology catered to patients from several of the districts including Bangalore Rural, Shimoga, Hassan, Kolar, Mandya and Chikmagalur. The Bharat Institute of Oncology, Mysore was the main referral centre for Mysore district and partly for Hassan district. The Karnatak Cancer Therapy & Research Institute, Hubli was the main centre for patients from Uttara Kannada district.

Kodagu district is one of the smaller districts of Karnataka. The data is available for only 2001 and the numbers are small, but the MAARs were above 36.2/100,000. The TRCs (tongue, mouth, hypopharynx, pharynx etc.) were among the leading sites in males. In females, cancer of the cervix accounted for 35.1% of all cancers in that sex. This was followed by cancer of the mouth, breast, ovary and thyroid.

In Chamrajanagar district also the TRCs dominated the leading sites in males. Cancer of the oesophagus, hypopharynx and larynx were the first three leading sites of cancer. Among females, cancer of the cervix accounted for 42.3% of all cancers followed by cancer breast, oesophagus and ovary.

### ANDHRA PRADESH STATE:

**Hyderabad District :** While several centres in Hyderabad have collaborated in the project, a couple of major centres though registered in the project, were unable to provide information on cancer cases. Also, unlike many other urban metropolis, Hyderabad has not had the benefit of having a PBCR either under the NCRP or otherwise. Because of these reasons, in contrast to other districts, the patterns of cancer for Hyderabad district have to be viewed with some caution.

Among males cancer of the stomach was the leading site of cancer followed by mouth, lung and NHL. In females cancer breast was the leading site but both cancer breast and cervix had almost identical MAAR. They accounted for 26% and 25% respectively, of all cancers in women. [Fig. 5.57(c)]. Apollo Hospitals and MNJ Institute of Oncology were the top two referral centres for the cancer patients from Hyderabad district. [Table 5.57(b)].

**Nellore District:** Cancer of the stomach was again the leading site of cancer in males in Nellore district. This was followed by four sites of cancer associated with use of tobacco - lung, hypopharynx, mouth and larynx. Unlike in Hyderabad, cancer of the cervix was the predominant leading site of cancer in women. It constituted 41.8% of all cancers in women. [Fig. 5.58(c)]. The HBCR and PBCR at Cancer Institute, Chennai were largely responsible for deciphering the pattern of cancer in this district. [Table 5.58(b)].

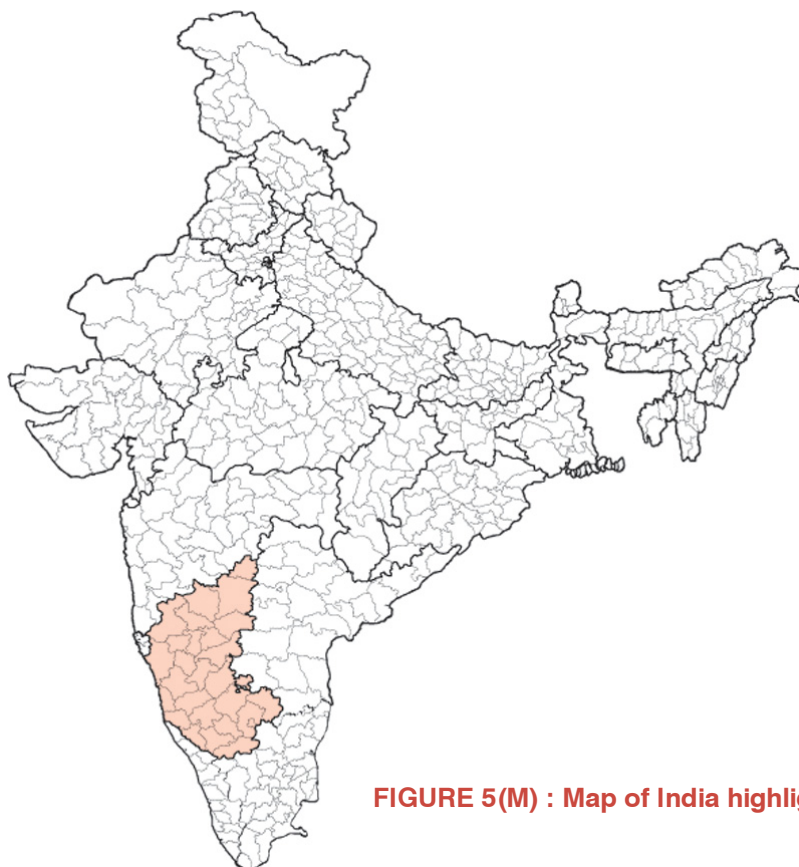


FIGURE 5(M) : Map of India highlighting Karnataka State

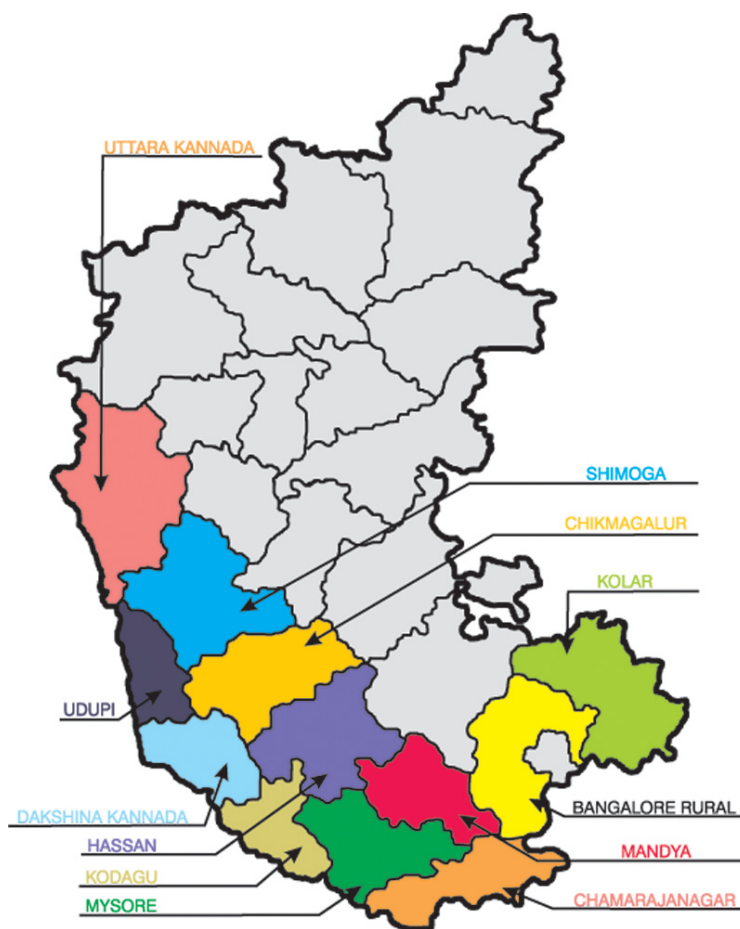


FIGURE 5(N) : Map of Karnataka State highlighting the districts with MAAR above 36.2 per 100,000

## 5.45. DAKSHINA KANNADA DISTRICT, Karnataka State

(Code 2924)

**TABLE 5.45(a) : Profile of Dakshina Kannada District (2001 Census)**

Area (in sq. kms.)	4,560.0
Decadal Growth Rate (1991-2001)	14.51%
Literacy Rate	
Males	89.74%
Females	77.39%
Sex Ratio (females per 1000 males)	1023
Density (persons per sq. km)	416

Source: NCRP, Bangalore

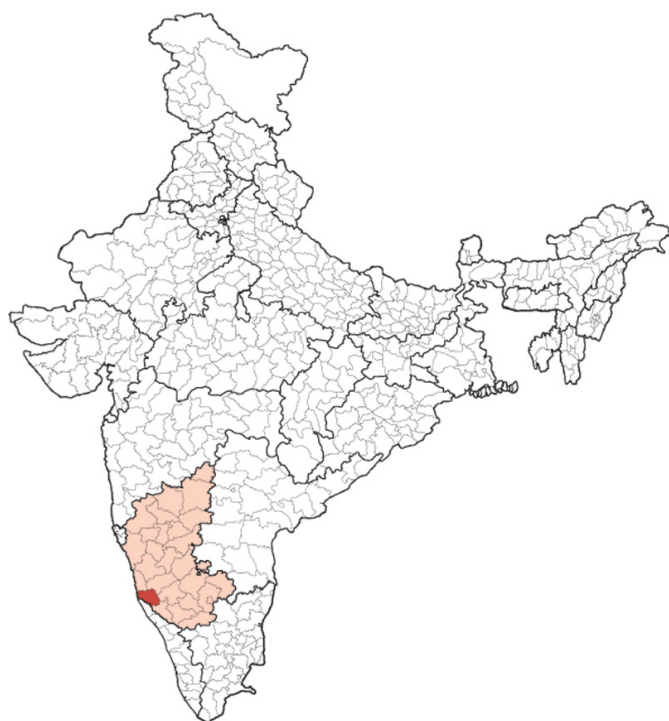


FIGURE 5.45(a) : Map of India highlighting Karnataka State

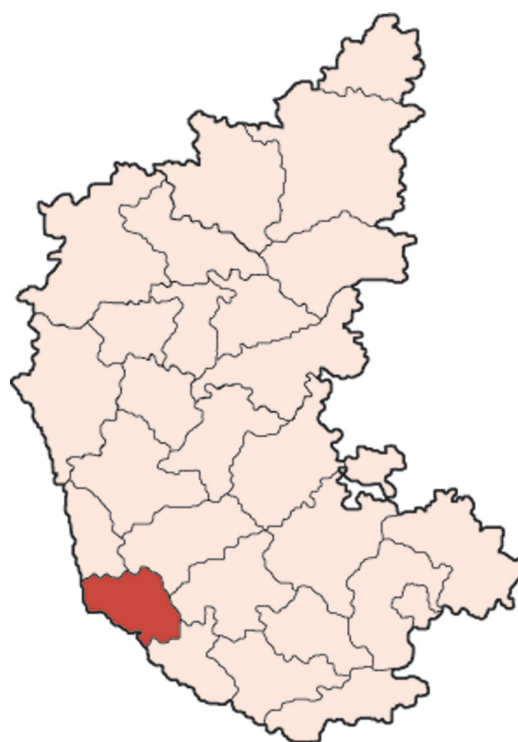


FIGURE 5.45(b) : Map of Karnataka State highlighting Dakshina Kannada District

**TABLE 5.45(b) : Centrewise Distribution of Cancers**  
Number (#) and Relative Proportion (%)

Year	2001		2002		2001 - 2002	
	#	%	#	%	#	%
<b>Centre</b> (with code in parentheses)						
Kasturba Medical College, Mangalore (3)	537	84.0	874	89.7	1411	87.5
Kasturba Medical College, Manipal (77)	47	7.4	57	5.9	104	6.4
HBCR - Mumbai (1008)	31	4.9	35	3.6	66	4.1
All Other Centres	24	3.8	8	0.8	32	2.0
<b>Total Cancers</b>	<b>639</b>	<b>100.0</b>	<b>974</b>	<b>100.0</b>	<b>1613</b>	<b>100.0</b>

Source: NCRP, Bangalore

**TABLE 5.45(c) : Salient features of Cancer Incidence**

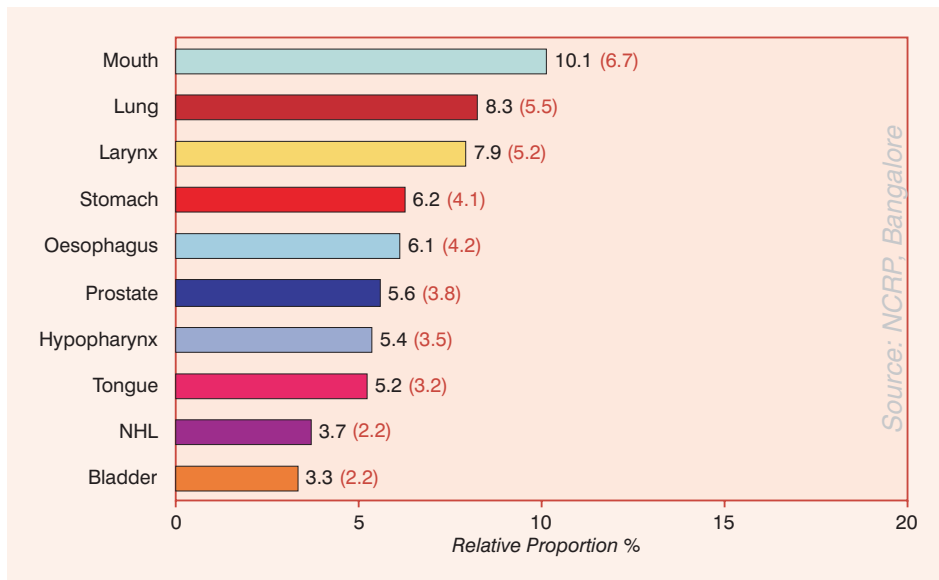
Year	2001		2002		2001 - 2002	
	Males	Females	Males	Females	Males	Females
Estimated Population	9,34,398	9,56,484	9,44,487	9,66,247	18,78,885	19,22,731
Total Cancers (All sites)	368	271	529	445	897	716
Min. Crude IR	39.4	28.3	56.0	46.1	47.7	37.2
Min. Age Adjusted IR	52.0	36.0	73.9	58.1	63.0	47.1
Min. Truncated IR	97.9	81.4	144.7	130.1	121.0	106.0

Source: NCRP, Bangalore

Min. = Minimum IR = Incidence Rate / 100,000

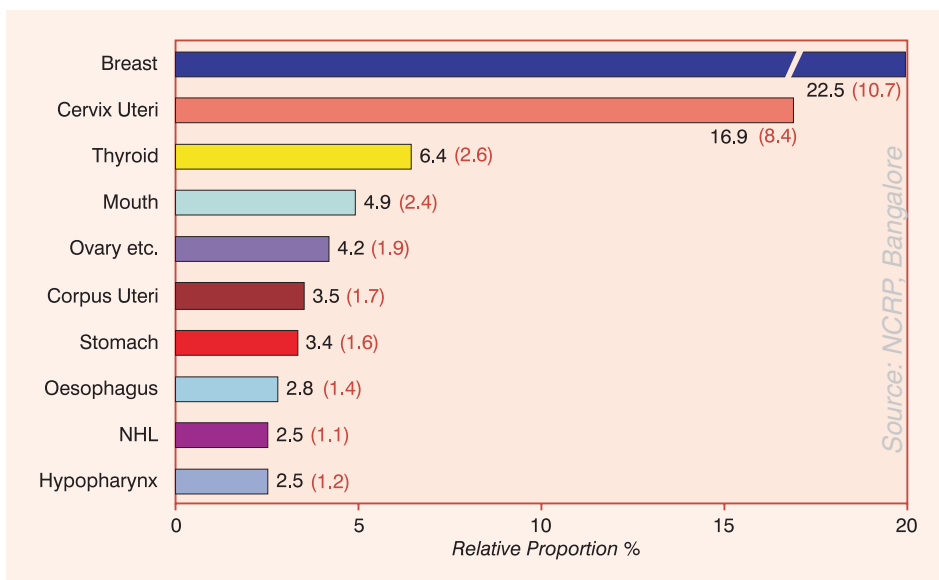
**FIGURE 5.45(c) : Ten Leading Sites of Cancer (2001 - 2002)**  
 (Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



Source: NCRP, Bangalore

**Females**



Source: NCRP, Bangalore

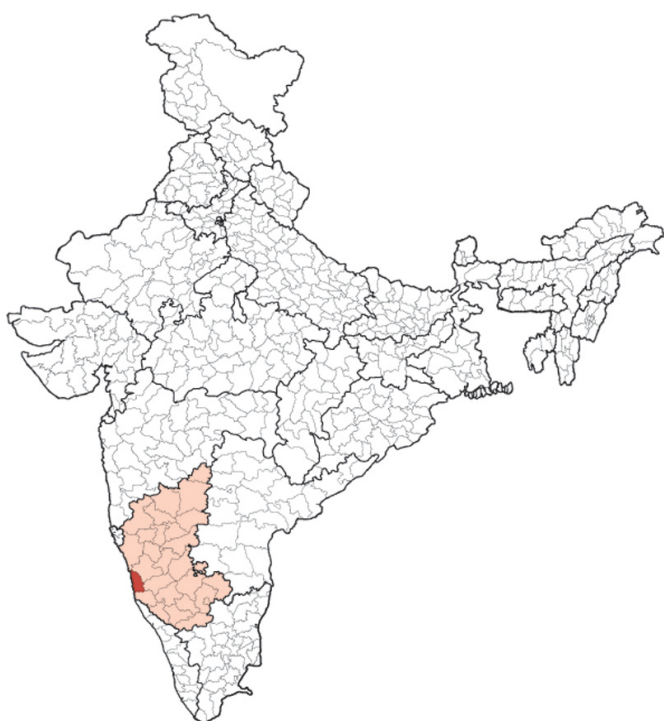
## 5.46. UDUPI DISTRICT, Karnataka State

(Code 2916)

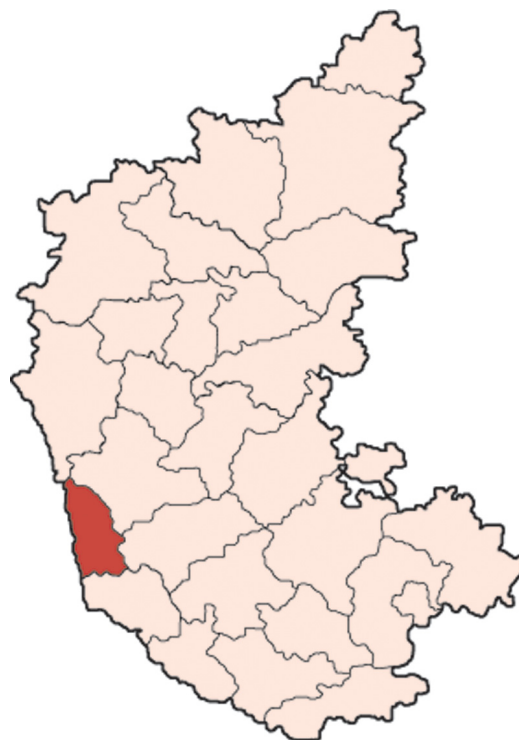
**TABLE 5.46(a) : Profile of Udupi District (2001 Census)**

Area (in sq. kms.)	3,880.0
Decadal Growth Rate (1991-2001)	6.88%
Literacy Rate	
Males	86.59%
Females	74.02%
Sex Ratio (females per 1000 males)	1127
Density (persons per sq. km)	286

Source: NCRP, Bangalore



**FIGURE 5.46(a) : Map of India highlighting Karnataka State**



**FIGURE 5.46(b) : Map of Karnataka State highlighting Udupi District**

**TABLE 5.46(b) : Centrewise Distribution of Cancers**

Number (#) and Relative Proportion (%)

Year	2001		2002		2001 - 2002	
	#	%	#	%	#	%
<b>Centre</b> (with code in parentheses)						
Kasturba Medical College, Manipal (77)	416	81.9	392	80.3	808	81.1
Kasturba Medical College, Mangalore (3)	77	15.2	94	19.3	171	17.2
HBCR - Bangalore (1007)	15	3.0	0	0.0	15	1.5
All Other Centres	0	0.0	2	0.4	2	0.2
<b>Total Cancers</b>	<b>508</b>	<b>100.0</b>	<b>488</b>	<b>100.0</b>	<b>996</b>	<b>100.0</b>

Source: NCRP, Bangalore



**TABLE 5.46(c) : Salient features of Cancer Incidence**

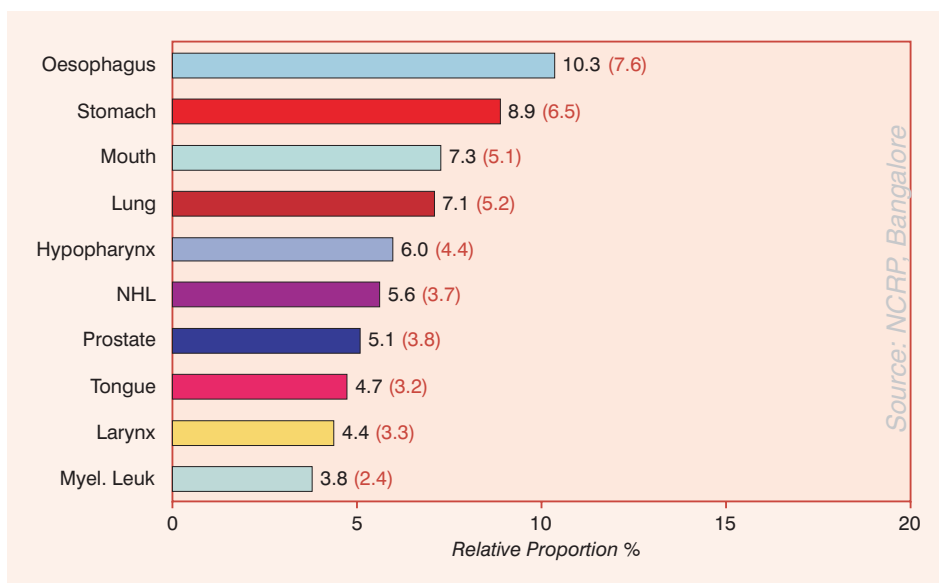
Year	2001		2002		2001 - 2002	
	Males	Females	Males	Females	Males	Females
Estimated Population	5,19,554	5,86,568	5,24,645	5,92,584	10,44,199	11,79,152
Total Cancers (All sites)	291	217	260	228	551	445
Min. Crude IR	56.0	37.0	49.6	38.5	52.8	37.7
Min. Age Adjusted IR	73.4	45.9	65.4	48.4	69.4	47.2
Min. Truncated IR	140.8	99.9	120.7	103.5	130.7	101.7

Source: NCRP, Bangalore

Min. = Minimum IR = Incidence Rate / 100,000

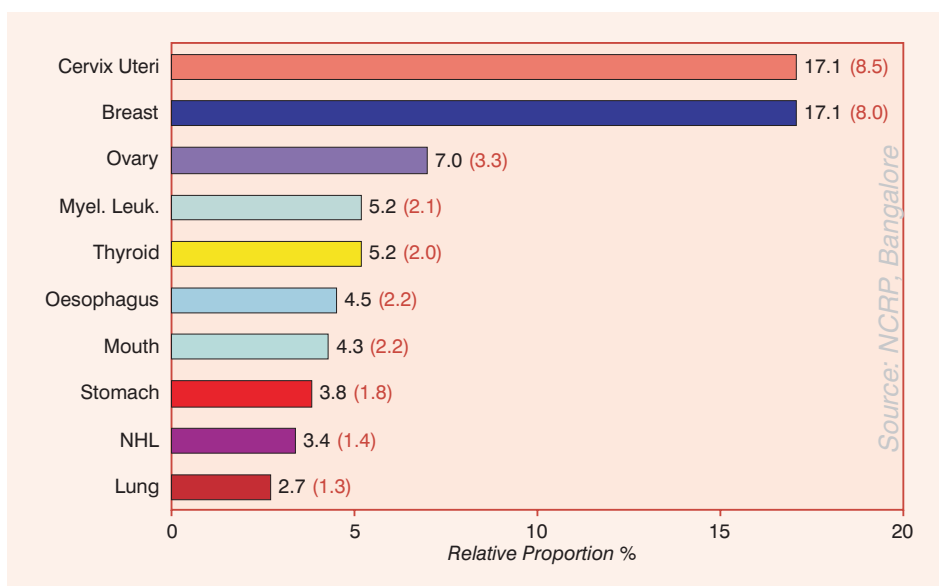
**FIGURE 5.46(c) : Ten Leading Sites of Cancer (2001 - 2002)**  
 (Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



Source: NCRP, Bangalore

**Females**



Source: NCRP, Bangalore

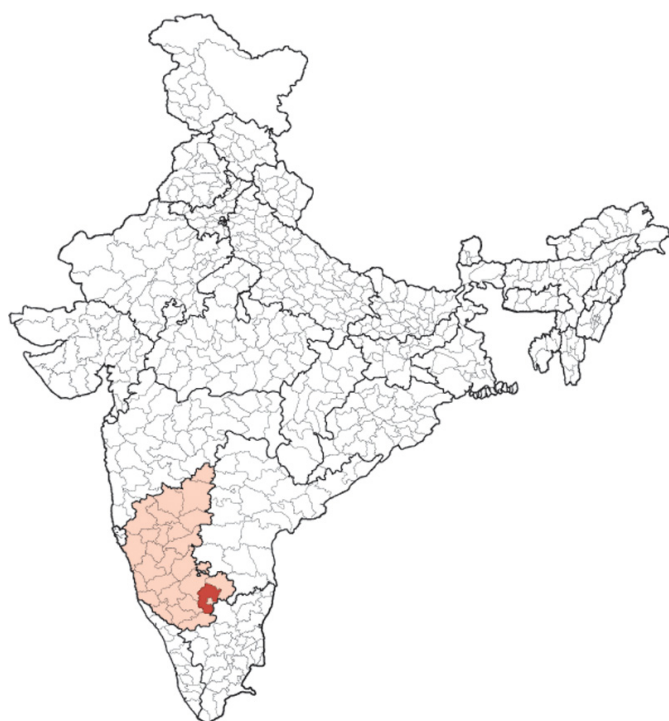
## 5.47. BANGALORE RURAL DISTRICT, Karnataka State

(Code 2921)

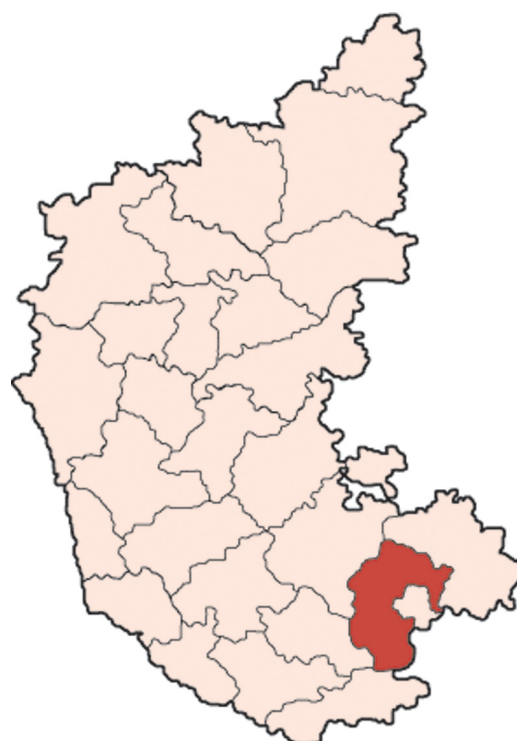
**TABLE 5.47(a) : Profile of Bangalore Rural District (2001 Census)**

Area (in sq. kms.)	5,815.0
Decadal Growth Rate (1991-2001)	12.21%
Literacy Rate	
Males	74.43%
Females	55.12%
Sex Ratio (females per 1000 males)	953
Density (persons per sq. km)	323

Source: NCRP, Bangalore



**FIGURE 5.47(a) : Map of India highlighting Karnataka State**



**FIGURE 5.47(b) : Map of Karnataka State highlighting Bangalore Rural District**

**TABLE 5.47(b) : Centrewise Distribution of Cancers (2001)**  
Number (#) and Relative Proportion (%)

Centre (with code in parentheses)	#	%
HBCR - Bangalore (1007)	669	95.8
Anand Laboratory, Bangalore (59)	26	3.7
All Other Centres	3	0.4
<b>Total Cancers</b>	<b>698</b>	<b>100.0</b>

Source: NCRP, Bangalore



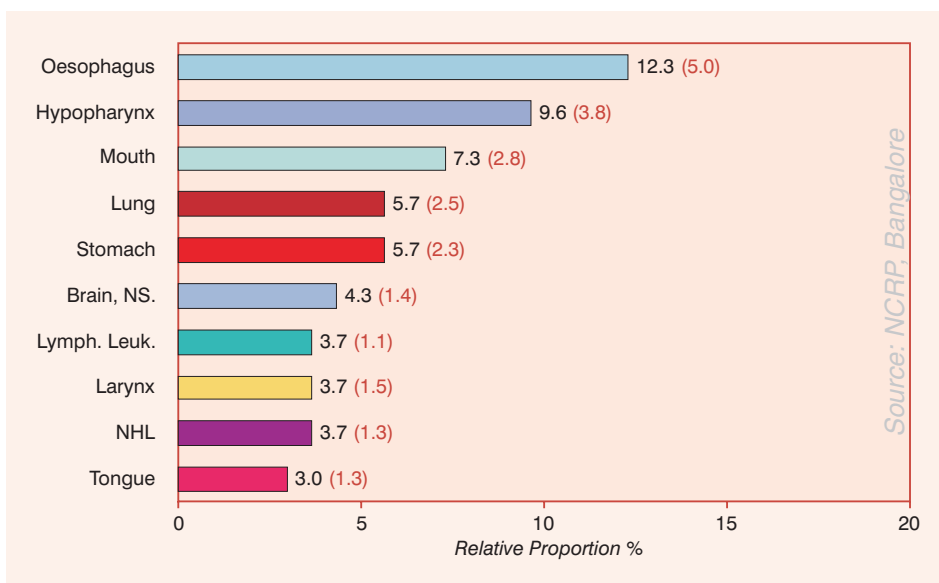
**TABLE 5.47(c) : Salient features of Cancer Incidence (2001)**

	Males	Females
Estimated Population	9,57,807	9,13,285
Total Cancers (All sites)	301	397
Min. Crude IR	31.4	43.5
Min. Age Adjusted IR	39.1	58.3
Min. Truncated IR	68.9	130.2

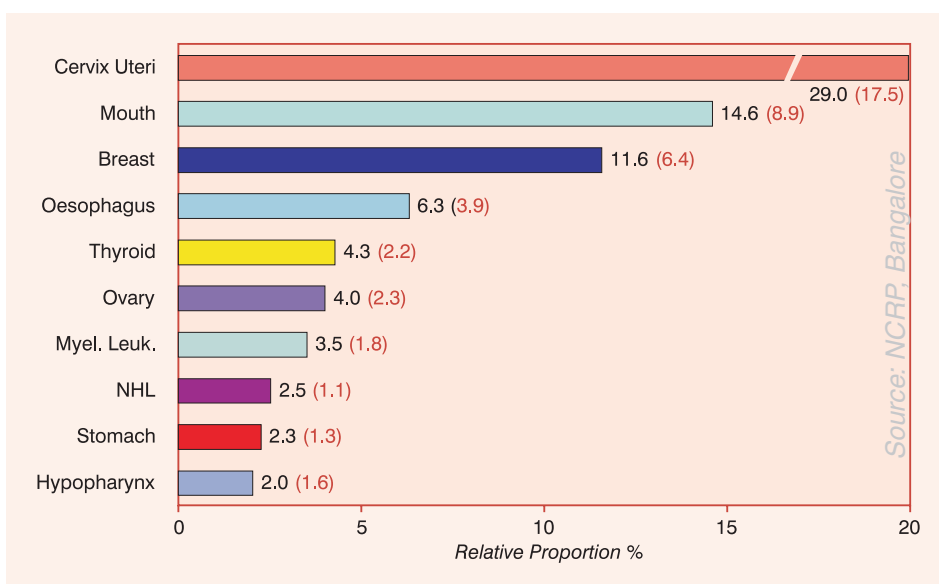
Min. = Minimum IR = Incidence Rate / 100,000

**FIGURE 5.47(c) : Ten Leading Sites of Cancer (2001)**  
(Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



**Females**



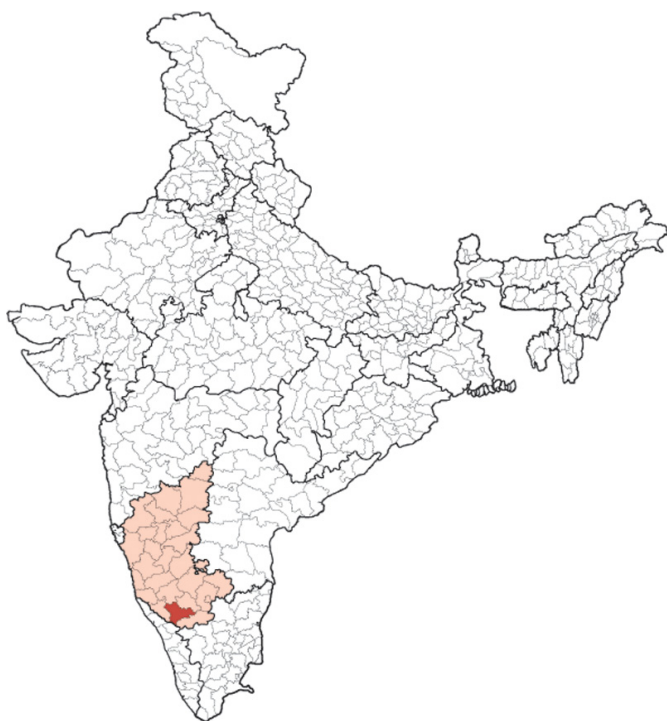
## 5.48. MYSORE DISTRICT, Karnataka State

(Code 2926)

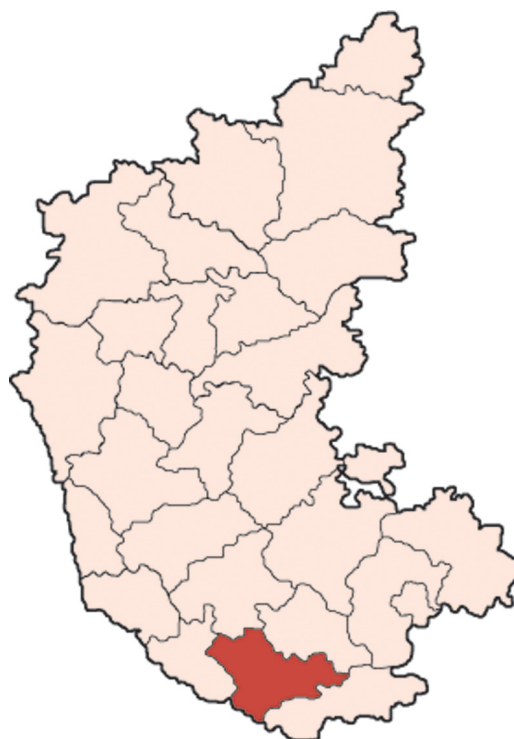
**TABLE 5.48(a) : Profile of Mysore District (2001 Census)**

Area (in sq. kms.)	6,854.0
Decadal Growth Rate (1991-2001)	15.04%
Literacy Rate	
Males	71.30%
Females	55.81%
Sex Ratio (females per 1000 males)	965
Density (persons per sq. km)	383

Source: NCRP, Bangalore



**FIGURE 5.48(a) : Map of India highlighting Karnataka State**



**FIGURE 5.48(b) : Map of Karnataka State highlighting Mysore District**

**TABLE 5.48(b) : Centrewise Distribution of Cancers (2001)**  
Number (#) and Relative Proportion (%)

Centre (with code in parentheses)	#	%
Bharath Institute of Oncology, Mysore (135)	648	66.1
HBCR - Bangalore (1007)	317	32.3
Kasturba Medical College, Manipal (77)	6	0.6
All Other Centres	10	1.0
<b>Total Cancers</b>	<b>981</b>	<b>100.0</b>

Source: NCRP, Bangalore

**TABLE 5.48(c) : Salient features of Cancer Incidence (2001)**

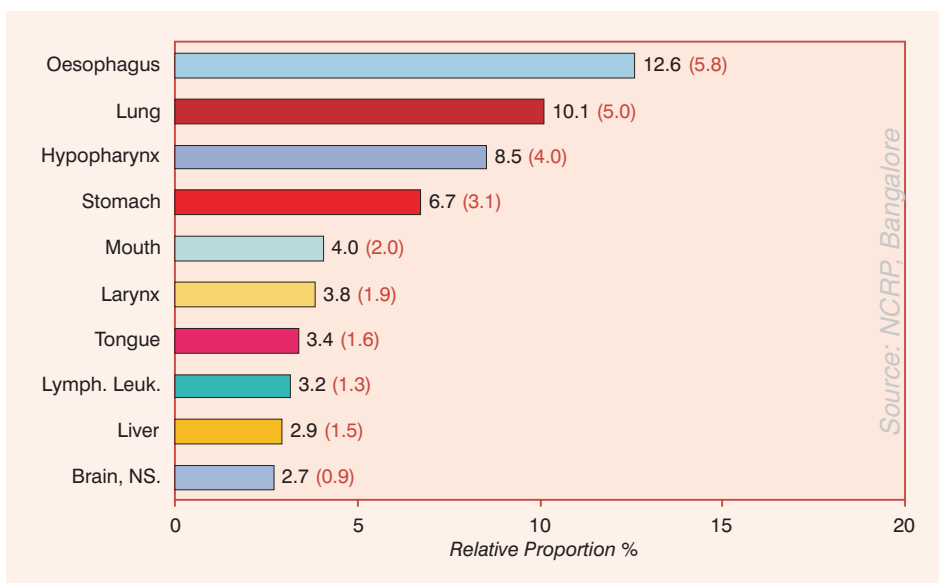
	Males	Females
Estimated Population	13,32,931	12,87,596
Total Cancers (All sites)	445	536
Min. Crude IR	33.4	41.6
Min. Age Adjusted IR	44.7	56.7
Min. Truncated IR	69.5	125.8

Source: NCRP, Bangalore

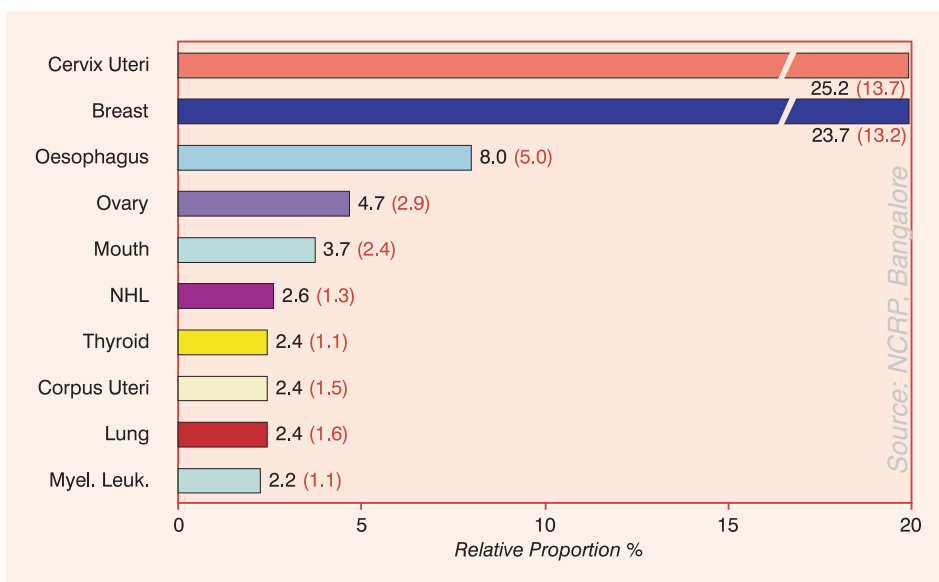
Min. = Minimum IR = Incidence Rate / 100,000

**FIGURE 5.48(c) : Ten Leading Sites of Cancer (2001)**  
(Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



**Females**



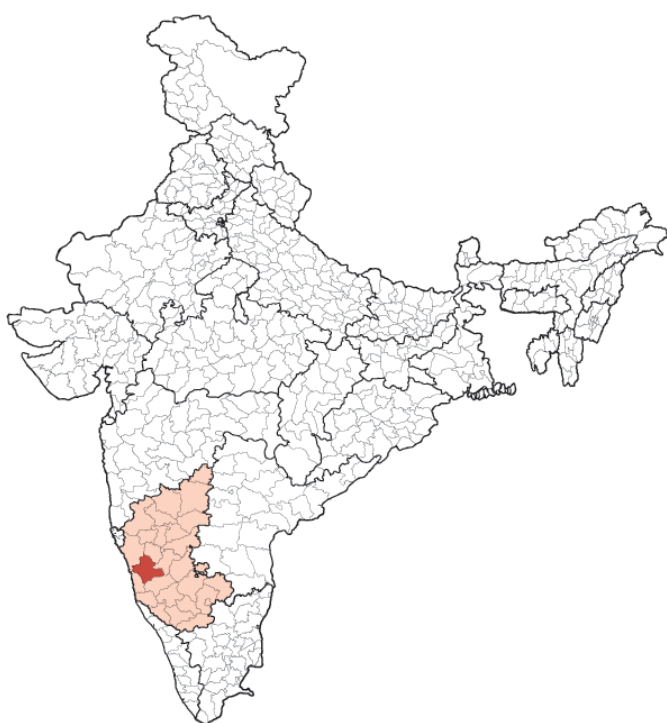
## 5.49. SHIMOGA DISTRICT, Karnataka State

(Code 2915)

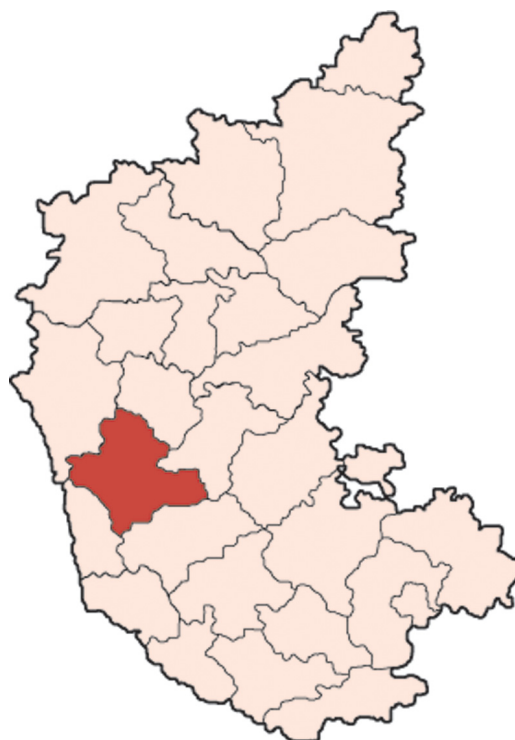
**TABLE 5.49(a) : Profile of Shimoga District (2001 Census)**

Area (in sq. kms.)	8,477.0
Decadal Growth Rate (1991-2001)	12.90%
Literacy Rate	
Males	82.32%
Females	67.24%
Sex Ratio (females per 1000 males)	977
Density (persons per sq. km)	193

Source: NCRP, Bangalore



**FIGURE 5.49(a) : Map of India highlighting Karnataka State**



**Fig. 5.49(b) : Map of Karnataka State highlighting Shimoga District**

**TABLE 5.49(b) : Centrewise Distribution of Cancers (2001)**  
Number (#) and Relative Proportion (%)

Centre (with code in parentheses)	#	%
Kasturba Medical College, Manipal (77)	203	43.5
HBCR - Bangalore (1007)	223	47.8
The Karnatak Cancer Therapy, Hubli (15)	30	6.4
Kasturba Medical College, Mangalore (3)	3	0.6
All Other Centres	8	1.7
<b>Total Cancers</b>	<b>467</b>	<b>100.0</b>

Source: NCRP, Bangalore

**TABLE 5.49(c) : Salient features of Cancer Incidence (2001)**

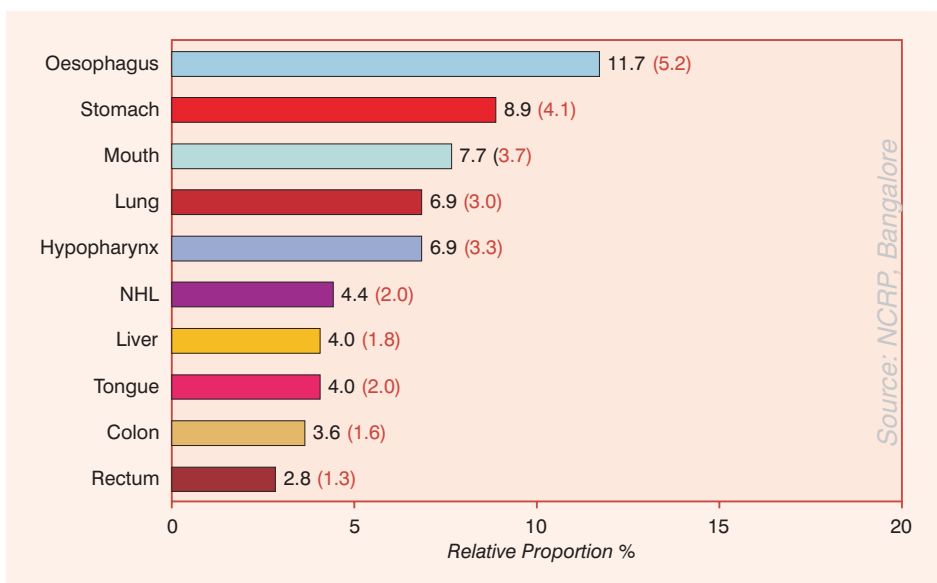
	Males	Females
Estimated Population	8,31,623	8,11,604
Total Cancers (All sites)	248	219
Min. Crude IR	29.8	27.0
Min. Age Adjusted IR	44.2	38.4
Min. Truncated IR	87.1	95.0

Source: NCRP, Bangalore

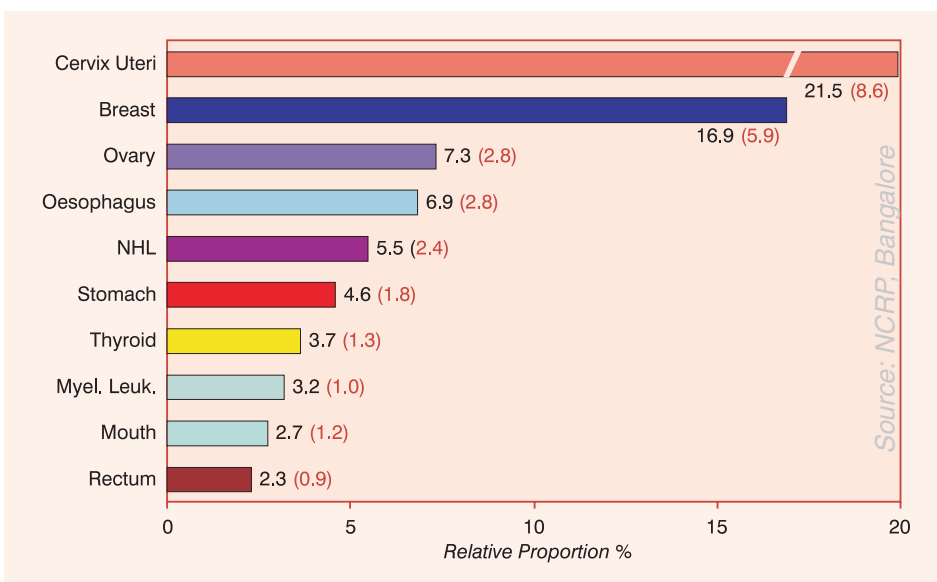
Min. = Minimum IR = Incidence Rate / 100,000

**FIGURE 5.49(c) : Ten Leading Sites of Cancer (2001)**  
(Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



**Females**



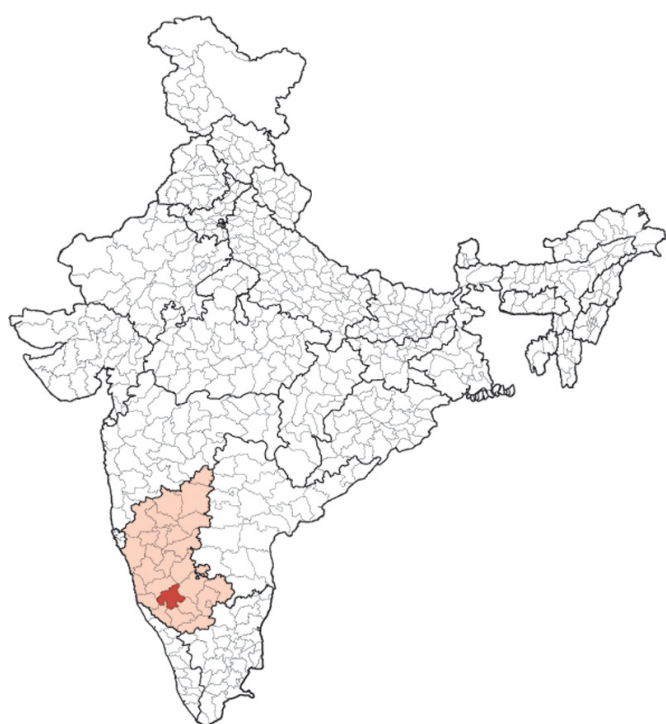
## 5.50. HASSAN DISTRICT, Karnataka State

(Code 2923)

**TABLE 5.50(a) : Profile of Hassan District (2001 Census)**

Area (in sq. kms.)	6,814.0
Decadal Growth Rate (1991-2001)	9.66%
Literacy Rate	
Males	78.29%
Females	59.32%
Sex Ratio (females per 1000 males)	1,005
Density (persons per sq. km)	253

Source: NCRP, Bangalore



**FIGURE 5.50(a) : Map of India highlighting Karnataka State**



**FIGURE 5.50(b) : Map of Karnataka State highlighting Hassan District**

**TABLE 5.50(b) : Centrewise Distribution of Cancers (2001)**  
Number (#) and Relative Proportion (%)

Centre (with code in parentheses)	#	%
HBCR - Bangalore (1007)	316	68.8
Bharath Inst. of Oncology, Mysore (135)	115	25.1
Kasturba Medical College, Mangalore (3)	11	2.4
Kasturba Medical College, Manipal (77)	12	2.6
The Karnatak Cancer Therapy, Hubli (15)	1	0.2
HBCR - Mumbai (1008)	2	0.4
All Other Centres	2	0.4
<b>Total Cancers</b>	<b>459</b>	<b>100.0</b>

Source: NCRP, Bangalore



**TABLE 5.50(c) : Salient features of Cancer Incidence (2001)**

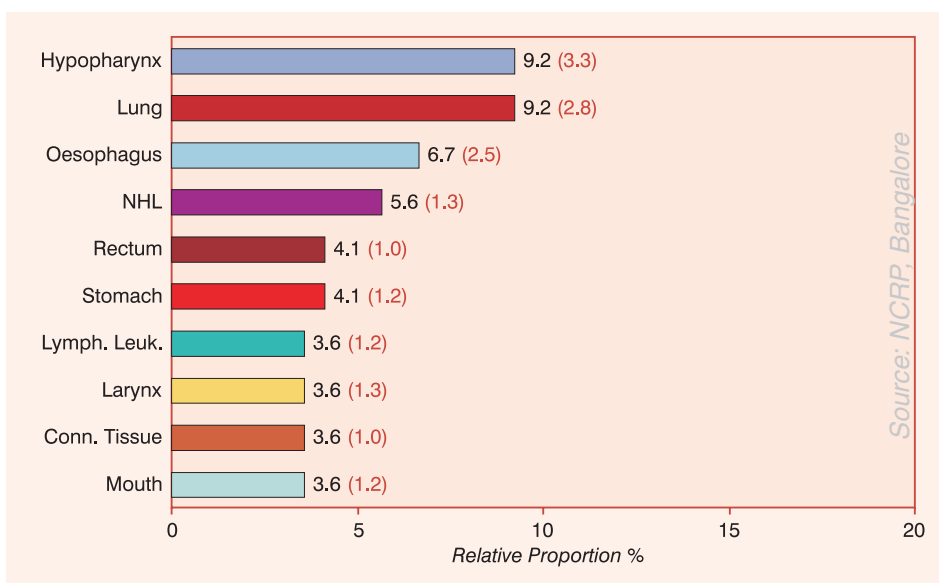
	Males	Females
Estimated Population	8,55,074	8,59,677
Total Cancers (All sites)	195	264
Min. Crude IR	22.8	30.7
Min. Age Adjusted IR	30.4	41.4
Min. Truncated IR	57.3	97.9

Source: NCRP, Bangalore

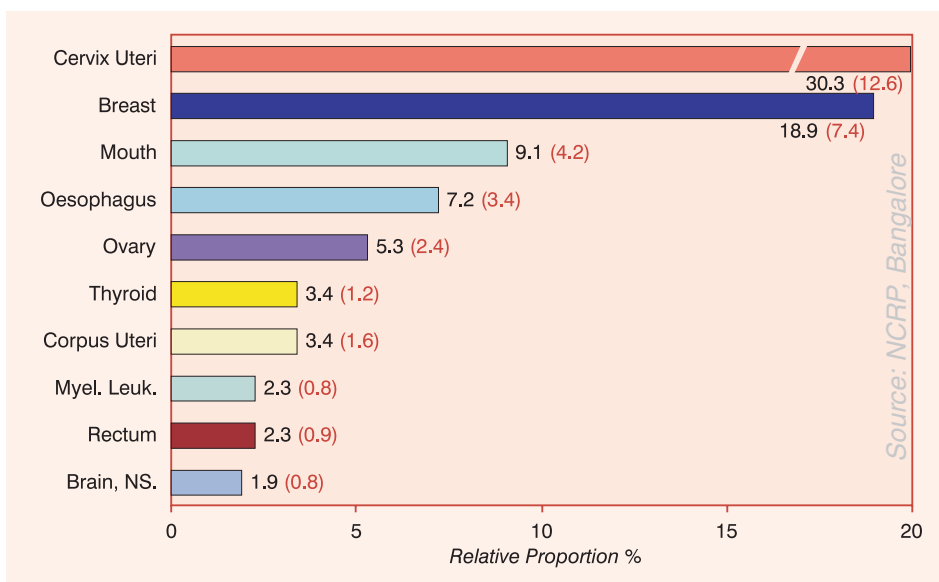
Min. = Minimum IR = Incidence Rate / 100,000

**FIGURE 5.50(c) : Ten Leading Sites of Cancer (2001)**  
(Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



**Females**



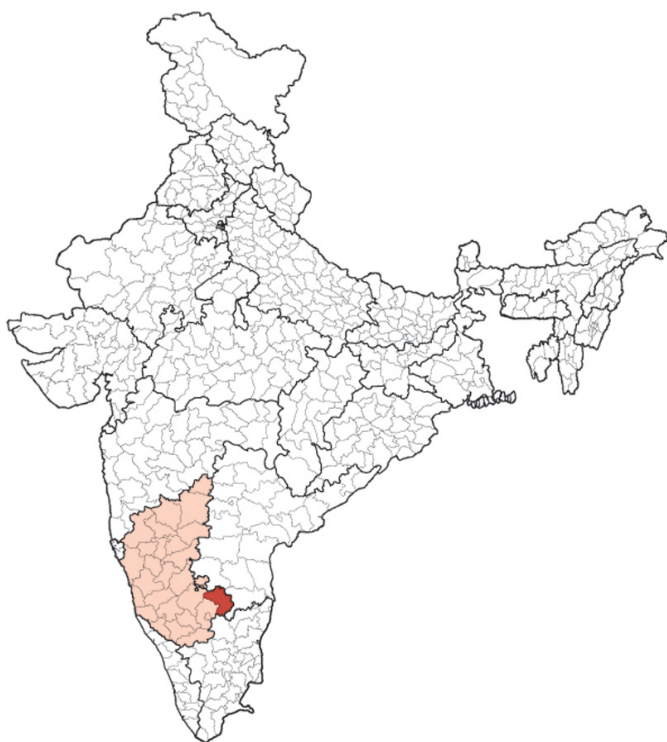
## 5.51. KOLAR DISTRICT, Karnataka State

(Code 2919)

**TABLE 5.51 (a) : Profile of Kolar District (2001 Census)**

Area (in sq. kms.)	8,223.0
Decadal Growth Rate (1991-2001)	13.83%
Literacy Rate	
Males	73.14%
Females	52.81%
Sex Ratio (females per 1000 males)	970
Density (persons per sq. km)	307

Source: NCRP, Bangalore



**FIGURE 5.51(a) : Map of India highlighting Karnataka State**



**FIGURE 5.51(b) : Map of Karnataka State highlighting Kolar District**

**TABLE 5.51 (b) : Centrewise Distribution of Cancers (2001)**  
Number (#) and Relative Proportion (%)

Centre (with code in parentheses)	#	%
HBCR - Bangalore (1007)	630	94.9
Anand Laboratory, Bangalore (59)	22	3.3
All Other Centres	12	1.8
<b>Total Cancers</b>	<b>664</b>	<b>100.0</b>

Source: NCRP, Bangalore

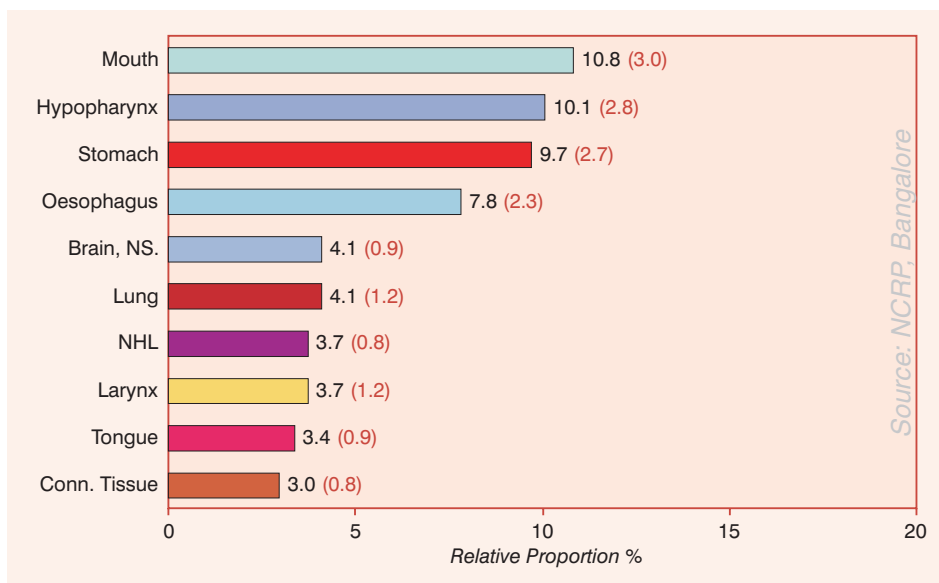
**TABLE 5.51 (c) : Salient features of Cancer Incidence (2001)**

	Males	Females
Estimated Population	12,79,851	12,42,506
Total Cancers (All sites)	268	396
Min. Crude IR	20.9	31.9
Min. Age Adjusted IR	26.6	41.0
Min. Truncated IR	53.1	100.0

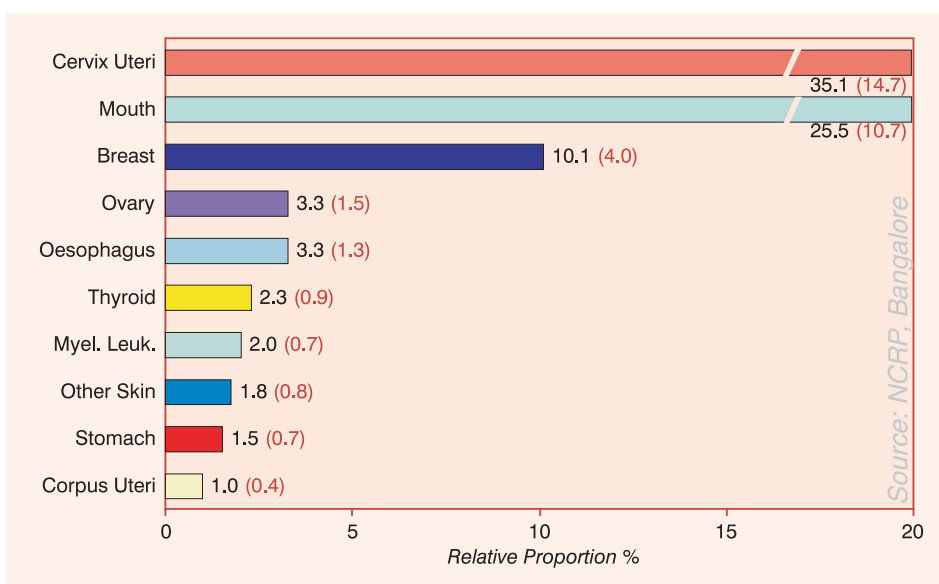
Min. = Minimum IR = Incidence Rate / 100,000

**FIGURE 5.51 (c) : Ten Leading Sites of Cancer (2001)**  
(Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



**Females**

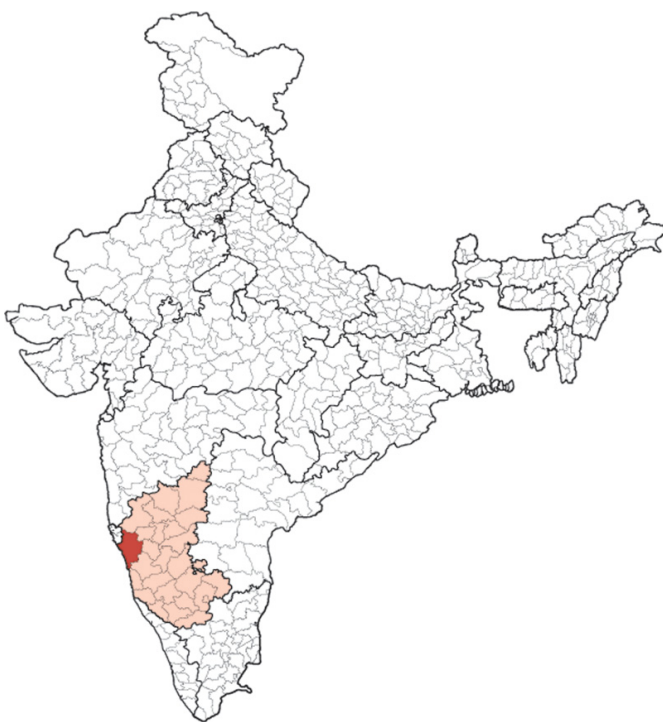


## 5.52. UTTARA KANNADA DISTRICT, Karnataka State

(Code 2910)

<b>TABLE 5.52(a) : Profile of Uttara Kannada District (2001 Census)</b>	
Area (in sq. kms.)	10,291.0
Decadal Growth Rate (1991-2001)	10.90%
Literacy Rate	
Males	84.48%
Females	68.48%
Sex Ratio (females per 1000 males)	970
Density (persons per sq. km)	132

Source: NCRP, Bangalore



**FIGURE 5.52(a) : Map of India highlighting Karnataka State**



**FIGURE 5.52(b) : Map of Karnataka State highlighting Uttara Kannada District**

**TABLE 5.52(b) : Centrewise Distribution of Cancers**  
Number (#) and Relative Proportion (%)

Year	2001		2002		2001 - 2002	
	#	%	#	%	#	%
<b>Centre</b> (with code in parentheses)						
The Karnatak Cancer Therapy, Hubli (15)	143	37.5	163	44.3	306	40.9
Kasturba Medical College, Manipal (77)	155	40.7	118	32.1	273	36.4
Kasturba Medical College, Mangalore (3)	31	8.1	37	10.1	68	9.1
Goa Medical College, Goa (100)	7	1.8	32	8.7	39	5.2
HBCR - Mumbai (1008)	15	3.9	15	4.1	30	4.0
HBCR - Bangalore (1007)	26	6.8	0	0.0	26	3.5
All Other Centres	4	1.0	3	0.8	7	0.9
<b>Total Cancers</b>	<b>381</b>	<b>100.0</b>	<b>368</b>	<b>100.0</b>	<b>749</b>	<b>100.0</b>

Source: NCRP, Bangalore

**TABLE 5.52(c) : Salient features of Cancer Incidence**

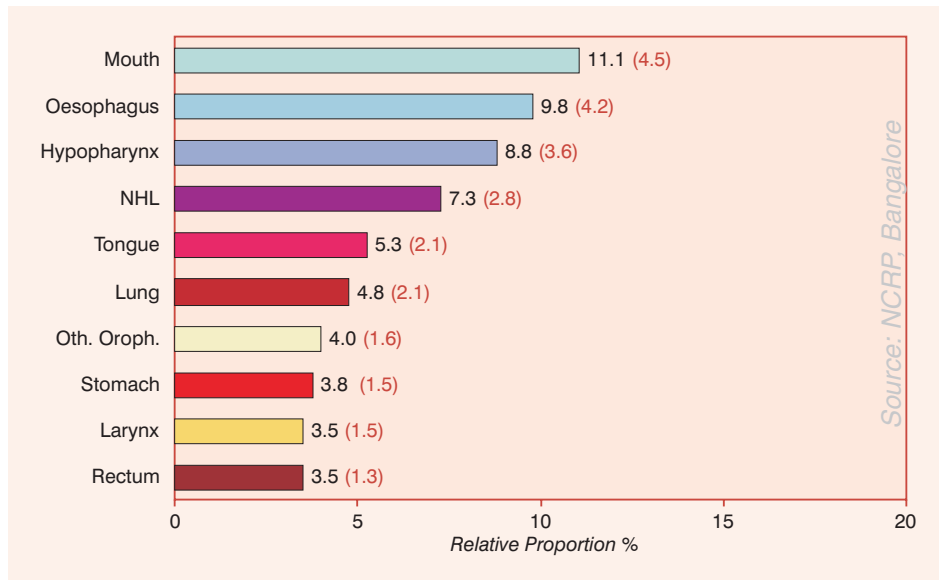
Year	2001		2002		2001 - 2002	
	Males	Females	Males	Females	Males	Females
Estimated Population	6,85,762	6,65,865	6,92,355	6,72,503	13,78,117	13,38,368
Total Cancers (All sites)	202	179	196	172	398	351
Min. Crude IR	29.5	26.9	28.3	25.6	28.9	26.2
Min. Age Adjusted IR	39.6	36.2	39.6	32.1	39.6	34.7
Min. Truncated IR	81.1	85.3	67.6	78.7	74.6	82.1

Source: NCRP, Bangalore

Min. = Minimum IR = Incidence Rate / 100,000

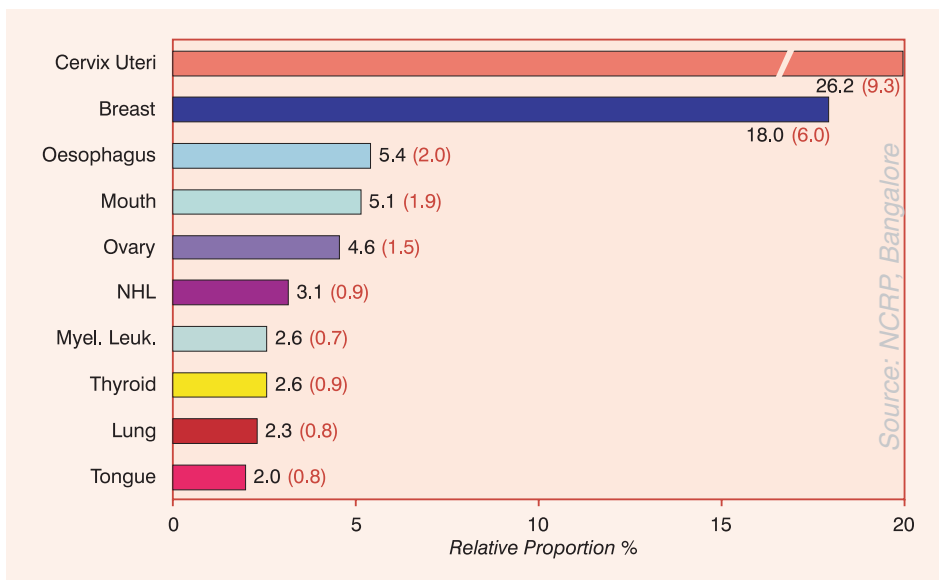
**FIGURE 5.52(c) : Ten Leading Sites of Cancer (2001 - 2002)**  
 (Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



Source: NCRP, Bangalore

**Females**



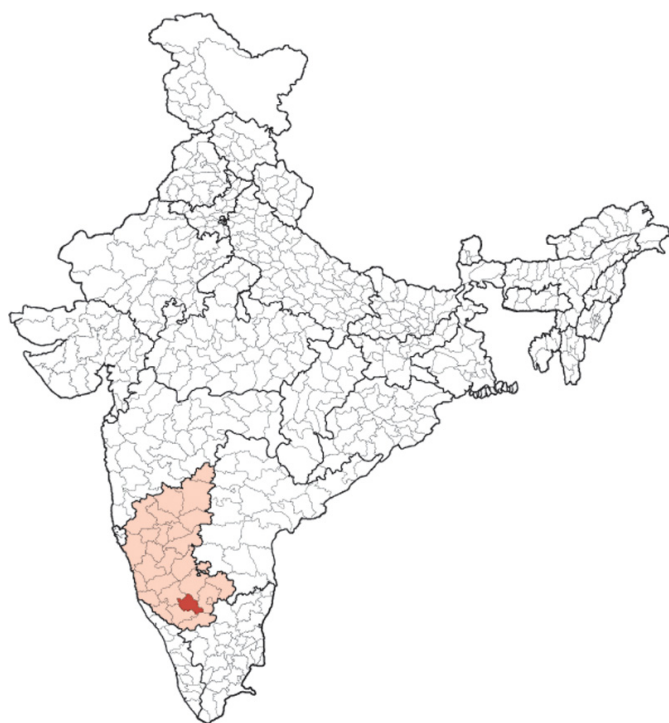
Source: NCRP, Bangalore

## 5.53. MANDYA DISTRICT, Karnataka State

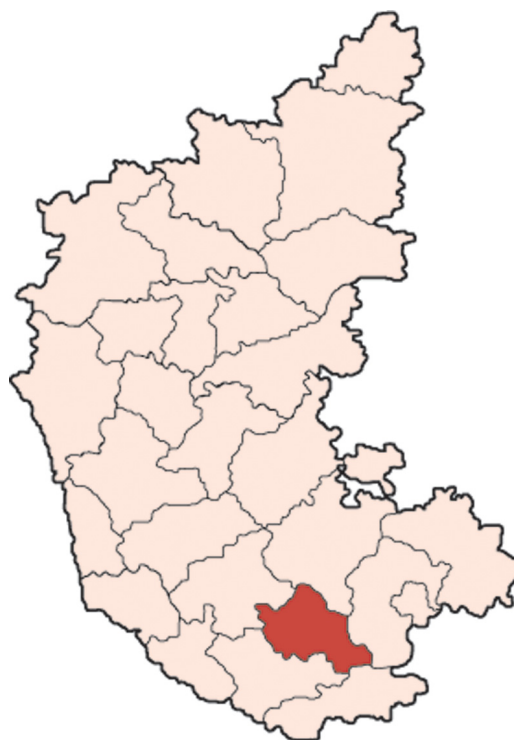
(Code 2922)

**TABLE 5.53(a) : Profile of Mandya District (2001 Census)**

Area (in sq. kms.)	Source: NCRP, Bangalore	4,961.0
Decadal Growth Rate (1991-2001)		7.14%
Literacy Rate		
Males		70.71%
Females		51.62%
Sex Ratio (females per 1000 males)		985
Density (persons per sq. km)		355



**FIGURE 5.53(a) : Map of India highlighting Karnataka State**



**FIGURE 5.53(b) : Map of Karnataka State highlighting Mandya District**

**TABLE 5.53(b) : Centrewise Distribution of Cancers (2001)**  
Number (#) and Relative Proportion (%)

Centre (with code in parentheses)	#	%
HBCR - Bangalore (1007)	413	77.3
Bharath Institute of Oncology, Mysore (135)	111	20.8
All Other Centres	10	1.9
<b>Total Cancers</b>	<b>534</b>	<b>100.0</b>

Source: NCRP, Bangalore



**TABLE 5.53(c) : Salient features of Cancer Incidence (2001)**

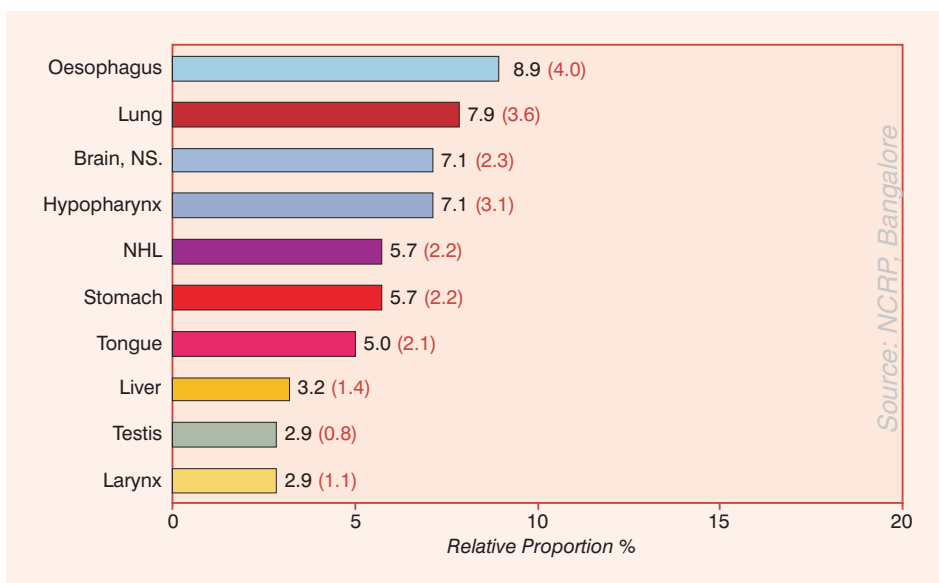
	Males	Females
Estimated Population	8,85,888	8,73,997
Total Cancers (All sites)	280	254
Min. Crude IR	31.6	29.1
Min. Age Adjusted IR	39.4	38.2
Min. Truncated IR	75.4	77.2

Source: NCRP, Bangalore

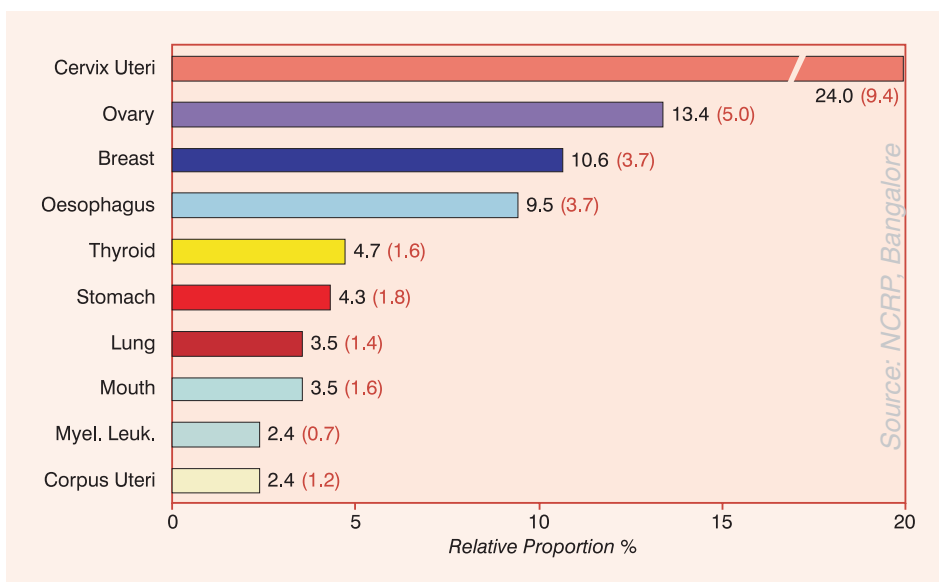
Min. = Minimum IR = Incidence Rate / 100,000

**FIGURE 5.53(c) : Ten Leading Sites of Cancer (2001)**  
(Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



**Females**



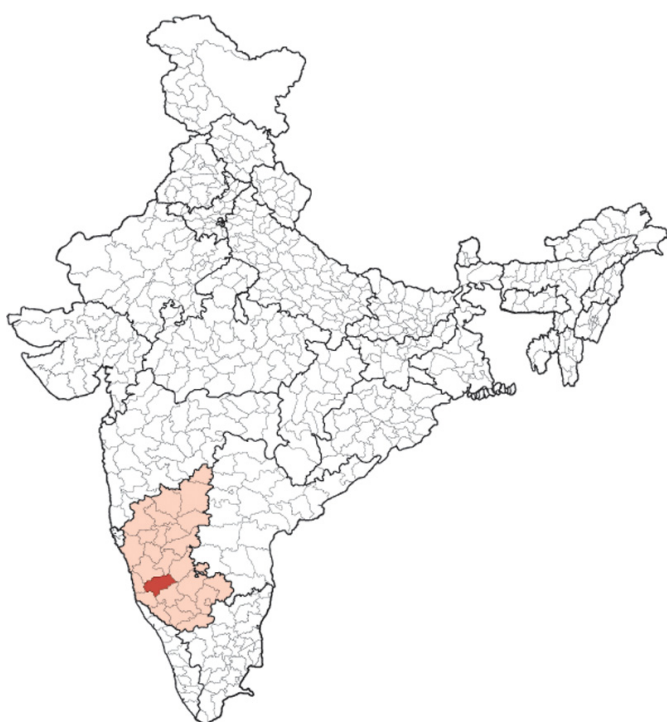
## 5.54. CHIKMAGALUR DISTRICT, Karnataka State

(Code 2917)

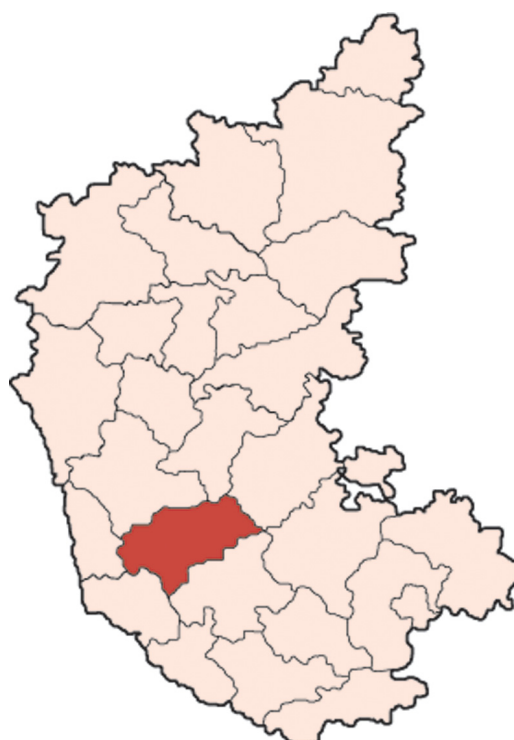
**TABLE 5.54(a) : Profile of Chikmagalur District  
(2001 Census)**

Area (in sq. kms.)	7,201.0
Decadal Growth Rate (1991-2001)	11.98%
Literacy Rate	
Males	80.68%
Females	64.47%
Sex Ratio (females per 1000 males)	984
Density (persons per sq. km)	158

Source: NCRP, Bangalore



**FIGURE 5.54(a) : Map of India highlighting Karnataka State**



**FIGURE 5.54(b) : Map of Karnataka State highlighting Chikmagalur District**

**TABLE 5.54(b) : Centrewise Distribution of Cancers (2001)**

Number (#) and Relative Proportion (%)

Centre (with code in parentheses)	#	%
HBCR - Bangalore (1007)	173	54.6
Kasturba Medical College, Manipal (77)	90	28.4
Kasturba Medical College, Mangalore (3)	24	7.6
Bharath Institute of Oncology, Mysore (135)	27	8.5
The Karnatak Cancer Therapy, Hubli (15)	2	0.6
All Other Centres	1	0.3
<b>Total Cancers</b>	<b>317</b>	<b>100.0</b>

Source: NCRP, Bangalore

**TABLE 5.54(c) : Salient features of Cancer Incidence (2001)**

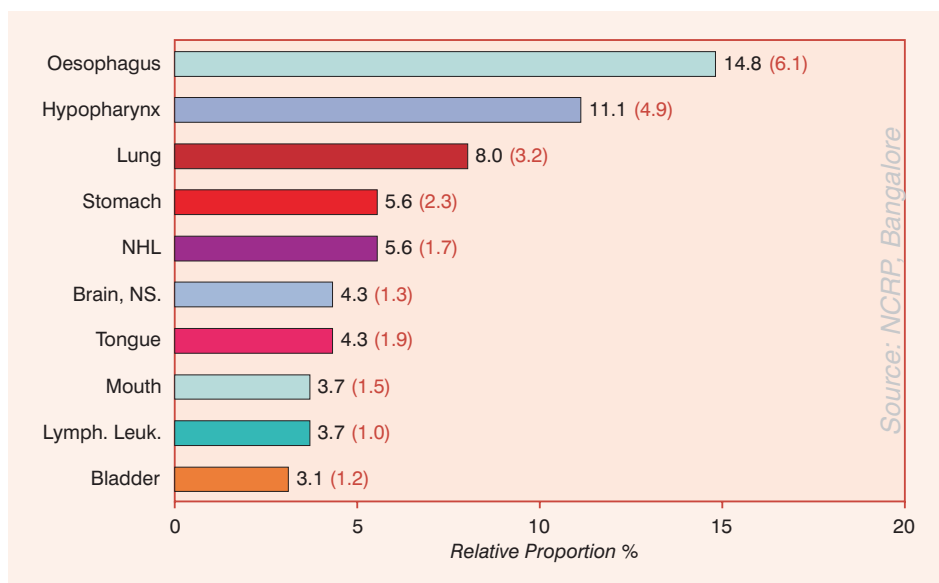
	Males	Females
Estimated Population	5,71,900	5,63,519
Total Cancers (All sites)	162	155
Min. Crude IR	28.3	27.5
Min. Age Adjusted IR	38.1	38.3
Min. Truncated IR	67.3	89.0

Source: NCRP, Bangalore

Min. = Minimum IR = Incidence Rate / 100,000

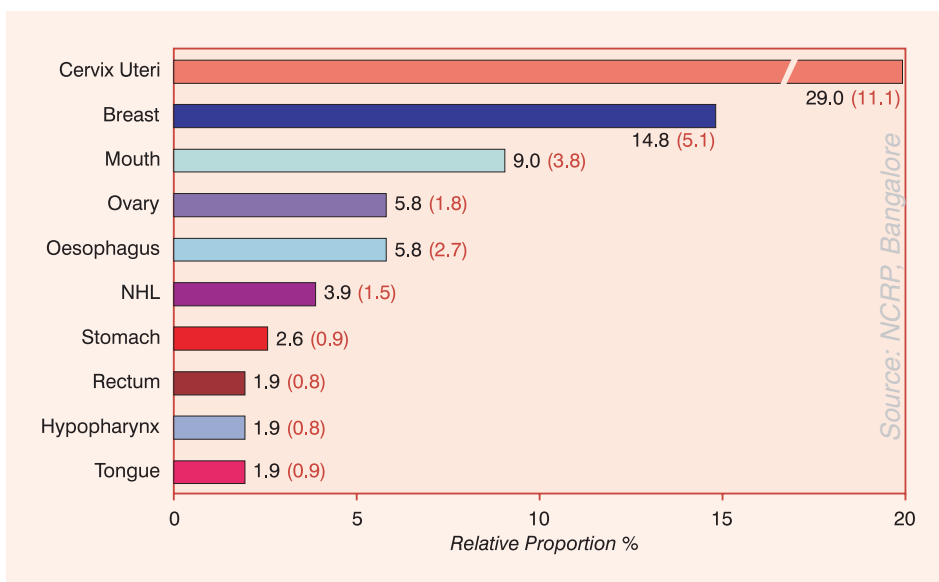
**FIGURE 5.54(c) : Ten Leading Sites of Cancer (2001)**  
(Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



Source: NCRP, Bangalore

**Females**



Source: NCRP, Bangalore

## 5.55. KODAGU DISTRICT, Karnataka State (Code 2925)

**TABLE 5.55(a) : Profile of Kodagu District (2001 Census)**

Area (in sq. kms.)	Source: NCRP, Bangalore	4,102.0
Decadal Growth Rate (1991-2001)		11.64%
Literacy Rate		
Males		83.80%
Females		72.53%
Sex Ratio (females per 1000 males)		996
Density (persons per sq. km)		133

**TABLE 5.55(b) : Centrewise Distribution of Cancers (2001)  
Number (#) and Relative Proportion (%)**

Centre (with code in parentheses)	#	%
Bharath Insti. of Oncology, Mysore (135)	97	49.7
HBCR - Bangalore (1007)	68	34.9
Kasturba Medical College, Mangalore (3)	17	8.7
Kasturba Medical College, Manipal (77)	11	5.6
All Other Centres	2	1.0
<b>Total Cancers</b>	<b>195</b>	<b>100.0</b>

**TABLE 5.55(c) : Salient features of Cancer Incidence (2001)**

	Males	Females
Estimated Population	2,73,092	2,72,173
Total Cancers (All sites)	84	111
Min. Crude IR	30.8	40.8
Min. Age Adjusted IR	41.4	54.9
Min. Truncated IR	78.7	115.9

Min. = Minimum IR = Incidence Rate / 100,000

## 5.56. CHAMARAJANAGAR DISTRICT, Karnataka State

(Code 2927)

**TABLE 5.56(a) : Profile of Chamarajanagar District (2001 Census)**

Area (in sq. kms.)	5,101.0
Decadal Growth Rate (1991-2001)	9.16%
Literacy Rate	
Males	59.25%
Females	43.02%
Sex Ratio (females per 1000 males)	968
Density (persons per sq. km)	383

Source: NCRP, Bangalore

**TABLE 5.56(b) : Centrewise Distribution of Cancers (2001)**  
Number (#) and Relative Proportion (%)

Centre (with code in parentheses)	#	%
Bharath Insti. of Oncology, Mysore (135)	134	52.8
HBCR - Bangalore (1007)	120	47.2
All Other Centres	0	0.0
<b>Total Cancers</b>	<b>254</b>	<b>100.0</b>

Source: NCRP, Bangalore

**TABLE 5.56(c) : Salient features of Cancer Incidence (2001)**

	Males	Females
Estimated Population	4,88,834	4,73,817
Total Cancers (All sites)	124	130
Min. Crude IR	25.4	27.4
Min. Age Adjusted IR	34.0	37.3
Min. Truncated IR	60.7	89.7

Source: NCRP, Bangalore

Min. = Minimum    IR = Incidence Rate / 100,000

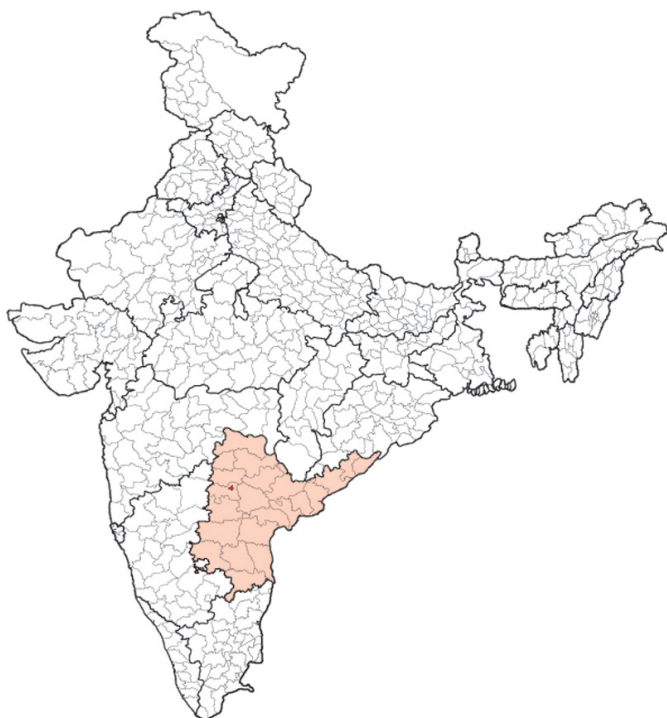
## 5.57. HYDERABAD DISTRICT, Andhra Pradesh State

(Code 2805)

**TABLE 5.57(a) : Profile of Hyderabad District (2001 Census)**

Area (in sq. kms.)	217.0
Decadal Growth Rate (1991-2001)	17.18%
Literacy Rate	
Males	84.11%
Females	73.67%
Sex Ratio (females per 1000 males)	945
Density (persons per sq. km)	6,988

Source: NCRP, Bangalore



**FIGURE 5.57(a) : Map of India highlighting Andhra Pradesh State**



**FIGURE 5.57(b) : Map of Andhra Pradesh State highlighting Hyderabad District**

**TABLE 5.57(b) : Centrewise Distribution of Cancers**

Number (#) and Relative Proportion (%)

Year	2001		2002		2001 - 2002	
	#	%	#	%	#	%
<b>Centre</b> (with code in parentheses)						
Apollo Hospitals, Hyderabad (43)	325	38.7	253	36.5	578	37.7
MNJ Institute of Oncology, Hyderabad (57)	217	25.9	149	21.5	366	23.9
Gandhi Medical College, Hyderabad (13)	80	9.5	114	16.5	194	12.7
NPL, Hyderabad (89)	73	8.7	104	15.0	177	11.6
HBCR - Mumbai (1008)	47	5.6	38	5.5	85	5.5
NIN - Hyderabad (200)	51	6.1	1	0.1	52	3.4
HBCR - Chennai (1009)	15	1.8	9	1.3	24	1.6
IACI, Hyderabad (78)	12	1.4	7	1.0	19	1.2
All Other Centres	19	2.3	18	2.6	37	2.4
<b>Total Cancers</b>	<b>839</b>	<b>100.0</b>	<b>693</b>	<b>100.0</b>	<b>1532</b>	<b>100.0</b>

Source: NCRP, Bangalore



**TABLE 5.57(c) : Salient features of Cancer Incidence**

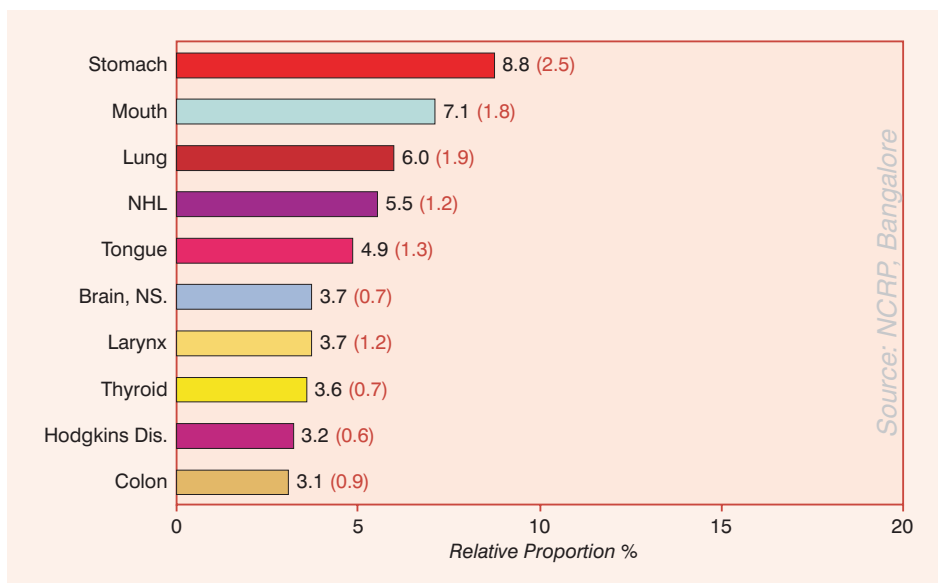
Year	2001		2002		2001 - 2002	
	Males	Females	Males	Females	Males	Females
Estimated Population	18,89,469	17,85,964	19,16,039	18,13,194	38,05,508	35,99,158
Total Cancers (All sites)	347	492	270	423	617	915
Min. Crude IR	18.4	27.6	14.1	23.3	16.2	25.4
Min. Age Adjusted IR	28.8	42.2	24.4	36.5	26.6	39.3
Min. Truncated IR	49.4	91.1	38.4	75.4	44.0	83.5

Source: NCRP, Bangalore

Min. = Minimum IR = Incidence Rate / 100,000

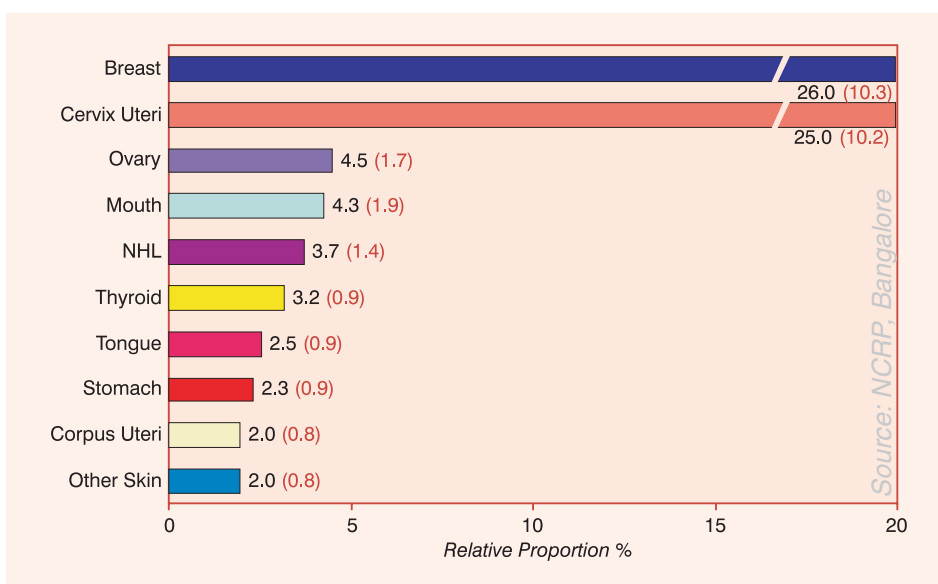
**FIGURE 5.57(c) : Ten Leading Sites of Cancer (2001 - 2002)**  
 (Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



Source: NCRP, Bangalore

**Females**



Source: NCRP, Bangalore

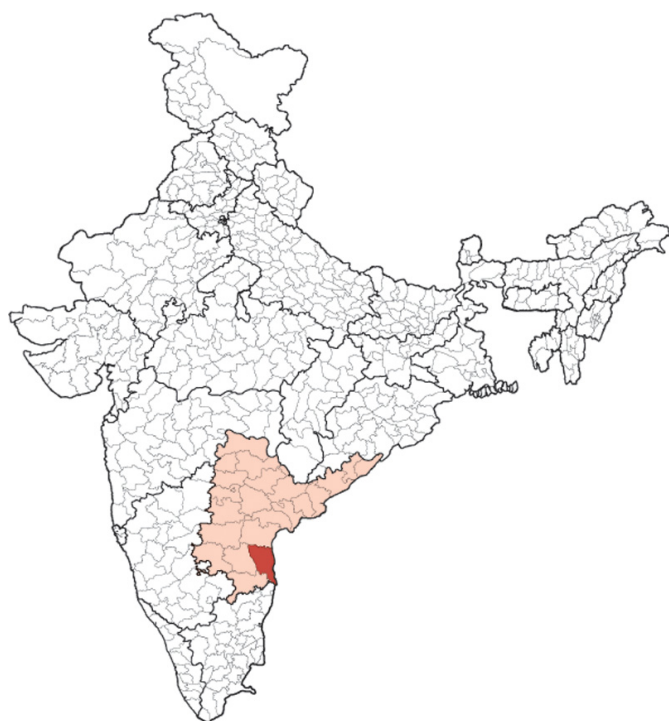
## 5.58. NELLORE DISTRICT, Andhra Pradesh State

(Code 2819)

**TABLE 5.58(a) : Profile of Nellore District (2001 Census)**

Area (in sq. kms.)	13,076.0
Decadal Growth Rate (1991-2001)	11.18%
Literacy Rate	
Males	74.45%
Females	57.24%
Sex Ratio (females per 1000 males)	983
Density (persons per sq. km)	203

Source: NCRP, Bangalore



**FIGURE 5.58(a) : Map of India highlighting Andhra Pradesh State**



**FIGURE 5.58(b) : Map of Andhra Pradesh State highlighting Nellore District**

**TABLE 5.58(b) : Centrewise Distribution of Cancers**  
Number (#) and Relative Proportion (%)

Year	2001		2002		2001 - 2002	
	#	%	#	%	#	%
<b>Centre</b> (with code in parentheses)						
HBCR - Chennai (1009)	401	91.1	496	67.1	897	76.1
PBCR - Chennai (1004)	0	0.0	213	28.8	213	18.1
SV Institute of Medical Sciences (132)	9	2.0	19	2.6	28	2.4
All Other Centres	30	6.8	11	1.5	41	3.5
<b>Total Cancers</b>	<b>440</b>	<b>100.0</b>	<b>739</b>	<b>100.0</b>	<b>1179</b>	<b>100.0</b>

Source: NCRP, Bangalore

**TABLE 5.58(c) : Salient features of Cancer Incidence**

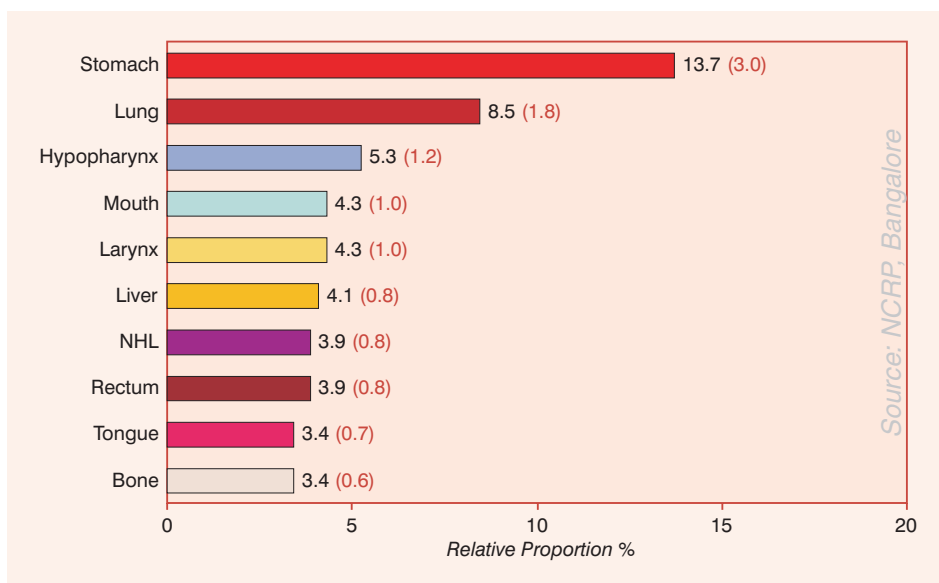
Year	2001		2002		2001 - 2002	
	Males	Females	Males	Females	Males	Females
Estimated Population	13,41,949	13,19,349	13,55,193	13,32,771	26,97,142	26,52,120
Total Cancers (All sites)	156	284	282	457	438	741
Min. Crude IR	11.6	21.5	20.8	34.3	16.2	27.9
Min. Age Adjusted IR	14.9	26.3	26.4	41.7	20.7	34.0
Min. Truncated IR	30.8	65.2	46.0	93.4	38.5	79.1

Source: NCRP, Bangalore

Min. = Minimum IR = Incidence Rate / 100,000

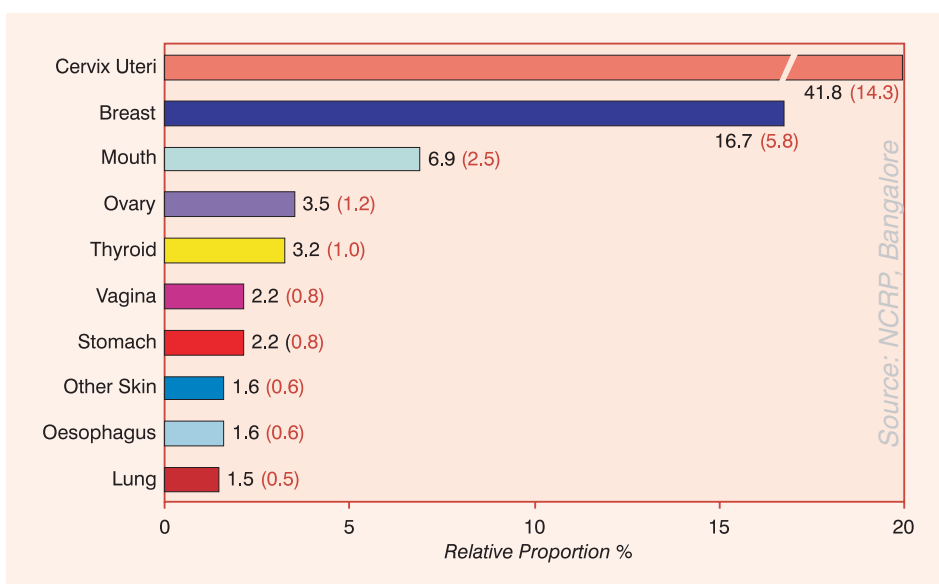
**FIGURE 5.58(c) : Ten Leading Sites of Cancer (2001 - 2002)**  
 (Minimum Age Adjusted Incidence Rates given in parentheses)

**Males**



Source: NCRP, Bangalore

**Females**



Source: NCRP, Bangalore