



Cancer Incidence and Mortality in Ratnagiri District, Maharashtra State, India: 2019-2020

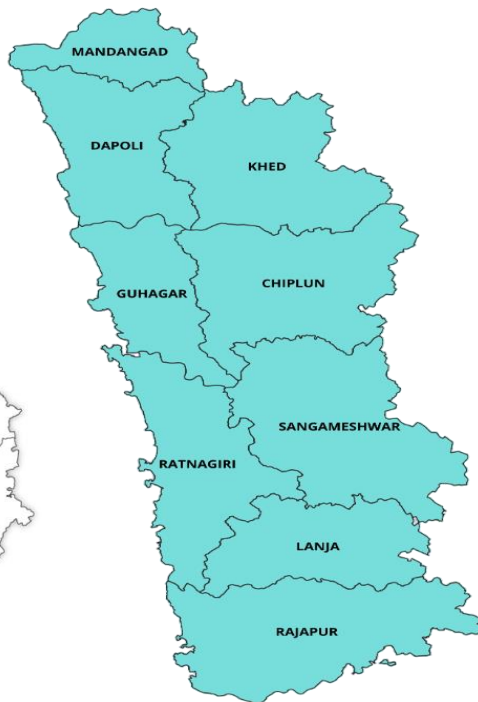
Population-Based Cancer Registry Report



India



Maharashtra State



Ratnagiri District

Tata Memorial Centre, Mumbai, India

(A Grant-in-Aid Institution under Department of Atomic Energy, Government of India)

Centre for Cancer Epidemiology, Mumbai, India

Advanced Centre for Treatment, Research, and Education in Cancer, Kharghar, India

Homi Bhabha National Institute, Mumbai, India

Bhaktshreshtha Kamalakarpanth Laxman Walawalkar Hospital, Dervan, Ratnagiri

Cancer Registry Principal Investigator, Co-Principal Investigator and Co-Investigators

Tata Memorial Centre (TMC), Mumbai

Name	Role	Designation
Dr. Sudeep Gupta	Principal Investigator	Director, TMC
Dr. Rajendra Badwe	Principal Investigator	Ex-Director, TMC till Nov. 2023
Dr. Shripad Banavali	Prof. & Cons. Haematologist-Oncologist	Director Academic, TMC
Dr. Pankaj Chaturvedi	Co-Investigator	Director, ACTREC
Dr. Rajesh Dikshit	Co-Investigator	Director, CCE
Dr. Gauravi Mishra	Professor and Physician	Deputy Director, CCE
Dr. Atul Budukh	Co-Principal-Investigator	Officer -In- Charge, Division of Medical Records & Cancer Registries
Mrs. Monika Sarade	Focal Person	Social Investigator, Division of Medical Records & Cancer Registries

Bhaktshreshtha Kamalakarant Laxman Walawalkar (BKLW) Hospital, Dervan, Ratnagiri

Name	Role	Designation
Dr. Suvarna Patil	Co-Investigator	Medical Director, BKLW Hospital
Dr. Netaji Patil	Co- Investigator	Radiologist, BKLW Hospital

Population-Based Cancer Registry, Ratnagiri Staff

Name	Designation
Mr. Sandip Bhojane	Supervisor
Mr. Amit Kolwankar	Field Investigator
Mr. Vikas Humane	Field Investigator
Mr. Vivek Mestri	Field Investigator
Mr. Ashish Jadhav	Field Investigator
Mr. Yogesh Surve	Field Investigator
Mr. Tejas Petkar	Field Investigator
Mr. Sandeep Ghag	Field Investigator
Mr. Samadhan Jadhav	Field Investigator
Mr. Rohit Jadhav	Field Investigator
Mr. Shivam Kokare	Field Investigator

Supporting Staff from CCE

Name	Designation
Ms. Sushama Saoba	Scientific Assistant
Mr. Pratik Sawant	Programmer
Dr. Kisan Algur	Research Fellow
Mr. Akshay Raut	Scientific Assistant
Mr. Santosh Kharmale	Administrative Assistant

Suggested Citation:

Sarade M, Bhojne S, Patil S, Patil N, Banavali S, Budukh A, Dikshit R and Gupta S, Cancer Incidence and Mortality in Ratnagiri District, Maharashtra State, India (2019-2020), Tata Memorial Centre (TMC), Mumbai (2025).

Office Address:

Population-Based Cancer Registry, Ratnagiri District
 Centre for Cancer Epidemiology (CCE),
 Advanced Centre for Treatment, Research and Education in Cancer (ACTREC),
 Kharghar, Maharashtra State, India.
 Mobile Number: 9920863064
 Email: atul.budukh@gmail.com, budukham@tmc.gov.in

Contents

Sr. No.	Topic	Page No
I	Highlights	1
II	Executive Summary	4
1	Maharashtra State Profile	8
2	Ratnagiri District Profile	9
3	Area and Population Covered by the Cancer Registry	12
4	Cancer Registration Method	14
5	Cancer Cases Registered by Source of Registration	19
6	Quality Control	20
7	Cancer Incidence and Mortality – All Sites	23
8	Gender- wise Leading Cancer Sites	24
9	Other and Unspecified Sites	35
10	Comparison of Cancer Incidence Rate with Other Indian Registries	37
11	Cancer Pattern in Paediatric Age-Group (00-14 years)	39
12	Tobacco-Related Cancer	42
13	Cancer Burden as per Anatomical System	45
14	Social and Demographic Information	47
15	Challenges Faced by Cancer Registry	49
16	Description of Statistical Terms	50
17	Standard Registry Tables	51
18	Paediatric Cancer Incidence Tables as per ICC-3 Standard	63
19	Village-wise Incidence and Mortality Cases	65
20	Paper Presentation for IACR Conference	98
21	Achievements	101
22	References	102
23	Acknowledgment	104
24	Photo Gallery	108

I. Highlights

- ✘ Ratnagiri population-based cancer registry (PBCR) was established in the year 2009 in collaboration with Bhaktshreshtha Kamalakarant Laxman Walawalkar (BKLW) Hospital, Dervan, Ratnagiri.
- ✘ The Ratnagiri PBCR covers nine talukas of the district – Chiplun, Guhagar, Lanja, Rajapur, Sangameshwar, Dapoli, Khed, Mandangad and Ratnagiri covering a population of 1,615,069 as per the 2011 census.
- ✘ The registry covers both urban and rural areas including 1,537 villages of the district. More than 80% of the population is rural.
- ✘ The field staff regularly trained by Tata Memorial Centre (TMC) Mumbai and Tata Memorial Centres senior staff visits the Ratnagiri PBCR to monitor the registry work.
- ✘ Active methods of data collection are used i.e., the field investigators visit various sources to obtain information on diagnosis and treatment. Sources for incidence and mortality cases include hospitals, pathology laboratories, medical colleges, cancer control department, village visits and the birth and death registrar's office etc.
- ✘ In the year 2019-2020, the cancer registry registered 1,989 incidence cancer cases including 847 males (42.6%) and 1,142 females (57.4%).
- ✘ **The age-adjusted incidence rate (AAR) for males is 48.6 per 100,000 population and for females, it is 55.8 per 100,000 population.**
- ✘ The cumulative risk for the age group 0-74 in males is 5.5% (1 in 18 males is at risk of developing cancer) and females, it is 6.1% (1 in 16 females is at risk of developing cancer).
- ✘ In males, mouth cancer shows the highest incidence rate with AAR of 10.2 per 100,000 population, followed by tongue (AAR 4.6), lung (AAR 2.5), stomach (AAR 2.4) and rectum (AAR 2.2).
- ✘ In females, breast shows the highest incidence rate with AAR of 16.5 per 100,000 population, followed by mouth (AAR 5.0), ovary (AAR 4.6), cervix uteri (AAR 4.2) and oesophagus (AAR 3.7).
- ✘ The age-adjusted incidence rate for the paediatric age group (0-14) was 62.8 per million for boys and 48.4 per million for girls.

- ✘ Out of 847 male cases 760 cases (89.7%) were diagnosed by microscopic verification, and 31 cases in males (3.7%) were registered by DCO/Verbal Autopsy.
- ✘ In females, out of 1,142 cases, 1,034 cases (90.5%) diagnosed by microscopic verification, and 39 cases (3.4%) by DCO/Verbal Autopsy.
- ✘ In Ratnagiri, 52.1% of all cancers in males (1 out of 2 cancer cases) is tobacco-related and 27.1% of all cancers in females (1 out of 4 cancer cases) is tobacco-related.
- ✘ Most cases in males involved sites from Head and Neck (42.3%; AAR 20.2 per 100,000), followed by the digestive tract organs (22.3%; AAR 10.3 per 100,000).
- ✘ In Females, most cases were involved by cancers of the breast (29.2%; AAR 16.5 per 100,000), followed by the female genital organs (19.3%; AAR 10.5 per 100,000) and Head and Neck (18.8%; AAR 9.8 per 100,000).
- ✘ In the year 2019-2020, 1,438 cancer deaths were registered, including 688 (47.8%) deaths in males and 750 (52.2%) deaths in females.
- ✘ **The age-adjusted mortality rate for males is 38.7 per 100,000 population and for females is 35.2 per 100,000 population.**
- ✘ The cumulative risk for the age group 0-74 in males is 4.5% (1 in 22 males is at risk of death due to cancer) and females, it is 4.0% (1 in 25 females is at risk of death due to cancer).
- ✘ The Registry regularly submits data to **Indian Council of Medical Research - National Cancer Registry Programme (ICMR-NCRP)** as part of its ongoing contribution to the national cancer surveillance system.
- ✘ **The Div. of Medical Records and Cancer Registry presented three research posters in the International Association of Cancer Registries (IACR) conference at Beijing, China in 2024.**
 - **Ten-Year Overall Survival of Testicular Cancer from Rural Cancer Registry, Ratnagiri, Maharashtra State, India presented by Mrs. Monika Sarade.**
 - **Cervix Uteri Cancer Burden from The Konkan Region of Maharashtra State, India presented by Mrs. Deepali Lokhande.**
 - **Burden of Non-Hodgkins Lymphoma in Adolescents, Young Adults (Aya), And Elderly in Konkan Region, Maharashtra, India presented by Mr. Narpad Padvi.**

- ✘ Contributed to the Paediatric cancer data of Ratnagiri PBCR on Paediatric cancer burden from the Konkan area of Maharashtra state, India. Presented at the **Paediatric Cancer Registry and Data Meeting held at Adyar Cancer Institute (WIA) Chennai in Feb.2025.**
 - ✘ The registry's data was used for a survival assessment exercise by a MPH student of TMC. The findings were presented as a dissertation thesis under the title
 - **“Oral Cancer Epidemiology and Survival (C03-C06) of Cases Registered in Population-Based Cancer Registries of Konkan Region, Maharashtra State of India.”**
 - **“Breast Cancer Epidemiology and Survival of Breast Cancer cases Registered in the Population-Based Cancer Registries of the Konkan Region, Maharashtra state, India.”**
- to Homi Bhabha National Institute in June 2025 for partial fulfilment of Master of Science in Public Health and Epidemiology degree.

II. Executive Summary

Background

Tata Memorial Centre (TMC), Tata Memorial Hospital (TMH), Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), and Centre for Cancer Epidemiology (CCE) is a Grand-in-aid institution under the administrative control of Department of Atomic Energy, Government of India. Tata Memorial Hospital (TMH), Mumbai, India, is a comprehensive centre for diagnosis, treatment, research and education in cancer. A Tata Memorial Outreach Programme was started in the Ratnagiri district in collaboration with BKL Walawalkar Hospital, Dervan in August 2003. The screening program was primarily aimed to screen for detection of head and neck, breast and cervix cancers. Since this screening was an ongoing service-oriented activity, it was necessary to follow-up these cases. Thus, under these circumstances, it was proposed to initiate and set up the population-based cancer registry in the Ratnagiri district. Also, due to the fact that there was no cancer statistics available from the Ratnagiri district. Hence, establishing a cancer registry was essential and therefore, cancer registry was established in February 2009.

The main objective of the cancer registry is to measure the burden of cancer in terms of incidence and mortality and to know the patterns of cancer in the district. The cancer registry data will be useful in planning cancer control activities and to strengthen cancer care services in the Ratnagiri district. We are presenting the report for the year 2019-2020.

Population Covered

The Ratnagiri population-based cancer registry (PBCR) covers nine talukas of the district – Chiplun, Guhagar, Lanja, Rajapur, Sangameshwar, Dapoli, Khed, Mandangad and Ratnagiri covering a population of 1,615,069 as per 2011 census. The registry covers urban areas as well as 1,537 villages of the district. More than 80% of the population of the district is rural.

Registration Method

Cancer registration is active, which means that the field investigators have to visit the various sources to obtain information on diagnosis and treatment. Regularly visit the villages, hospitals, pathology laboratories, medical colleges, cancer control department and the birth and death register office etc. sources to collect cancer incidence and death cases. The registry staff interacts with village Sarpanch, Auxiliary Nurse Midwife (ANM), Accredited Social Health Activist (ASHA) worker and primary health centre (PHC) staff periodically to know the cancer cases diagnosed in the area and cancer deaths that have occurred in the village.

The residence of cancer patient (at least one-year resident of Ratnagiri district) is confirmed by house visit or telephonic conversation by registry staff and after duplicate checking by the staff, the case is registered in the prescribed format. The data entry is carried out in CanReg5 software, developed by the International Agency for Research on Cancer (IACR).

Due to continuous interaction with the field staff and telephonic contact, we could also update the survival status of the cancer patients. Cancer patients visit nearby districts for cancer investigation and further treatment at Tata Memorial Hospital, Mumbai as well as other hospitals (Govt and Private), Kolhapur Cancer Centre, Kolhapur, Shri Siddhivinayak Ganpati Cancer Hospital, Miraj and Krishna Institute of Medical Sciences, Karad.

Results

This report is based on the Ratnagiri population-based cancer registry results for the years 2019 and 2020. In the year 2019-2020, the cancer registry registered 1,989 incidence cancer cases including 847 males (42.6%) and 1,142 females (57.4%). The age-adjusted incidence rate for males is 48.6 per 100,000 populations and for females it is 55.8 per 100,000 population. The cumulative risk for the age group 0-74 in males is 5.5% (1 in 18 males are at risk of developing cancer) and for females, it is 6.1% (1 in 16 females are at risk of developing cancer).

In the year 2019-2020, the cancer registry recorded 1,438 cancer deaths including 688 death (47.8%) in males and 750 deaths (52.2%) in females. The age-adjusted mortality rate for males is 38.7 per 100,000 populations and for females is 35.2 per 100,000 populations. The cumulative risk for the age group 0-74 in males is 4.5% (1 in 22 males are at risk of death due to cancer) and females, it is 4.0% (1 in 25 females is at risk of death due to cancer).

Leading Cancer Sites

The ten leading sites of cancer in Ratnagiri district for year 2019-2020 is as follows; in males, mouth cancer shows the highest incidence rate (AAR 10.2), followed by tongue and lung cancer. In females, breast shows the highest incidence rate (AAR 16.5) followed by mouth and ovary cancer. The leading cancer sites are mentioned in Table I and II.

Table I: Leading Cancer Sites in Males

ICD10	Site	Number	%	CR	AAR	TR
C03-C06	Mouth	181	21.4	13.2	10.2	23.2
C01-C02	Tongue	79	9.3	5.7	4.6	12.1
C33-C34	Trachea, bronchus and lung	45	5.3	3.3	2.5	4.7
C16	Stomach	43	5.1	3.1	2.4	5.4
C19-C20	Rectum	40	4.7	2.9	2.2	4.1
C61	Prostate	38	4.5	2.8	1.9	2.2
C15	Oesophagus	36	4.3	2.6	1.7	1.9
C12-C13	Hypopharynx	30	3.5	2.2	1.6	3.2
C82-C86&C96	Non-Hodgkin lymphoma	21	2.5	1.5	1.4	1.3
C18	Colon	24	2.8	1.7	1.4	3.1

CR: Crude Incidence Rate per 100,000, AAR: Age-Adjusted Rate per 100,000, TR: Truncated Incidence Rate per 100,000 Population.

Table II: Leading Cancer Sites in Females

ICD10	Site	Number	%	CR	AAR	TR
C50	Breast	334	29.2	22.3	16.5	40.5
C03-C06	Mouth	110	9.6	7.4	5.0	11.3
C56	Ovary	90	7.9	6.0	4.6	11.4
C53	Cervix Uteri	93	8.1	6.2	4.2	9.1
C15	Oesophagus	80	7.0	5.4	3.7	8.1
C01-C02	Tongue	39	3.4	2.6	1.8	3.8
C33-C34	Trachea, bronchus and lung	35	3.1	2.3	1.7	4.8
C19-C20	Rectum	29	2.5	1.9	1.4	2.6
C54	Corpus Uteri	27	2.4	1.8	1.3	3.3
C82- C86&C96	Non-Hodgkin lymphoma	21	1.8	1.4	1.1	2.4

CR: Crude Incidence Rate per 100,000, AAR: Age-Adjusted Rate per 100,000, TR: Truncated Incidence Rate per 100,000 Population.

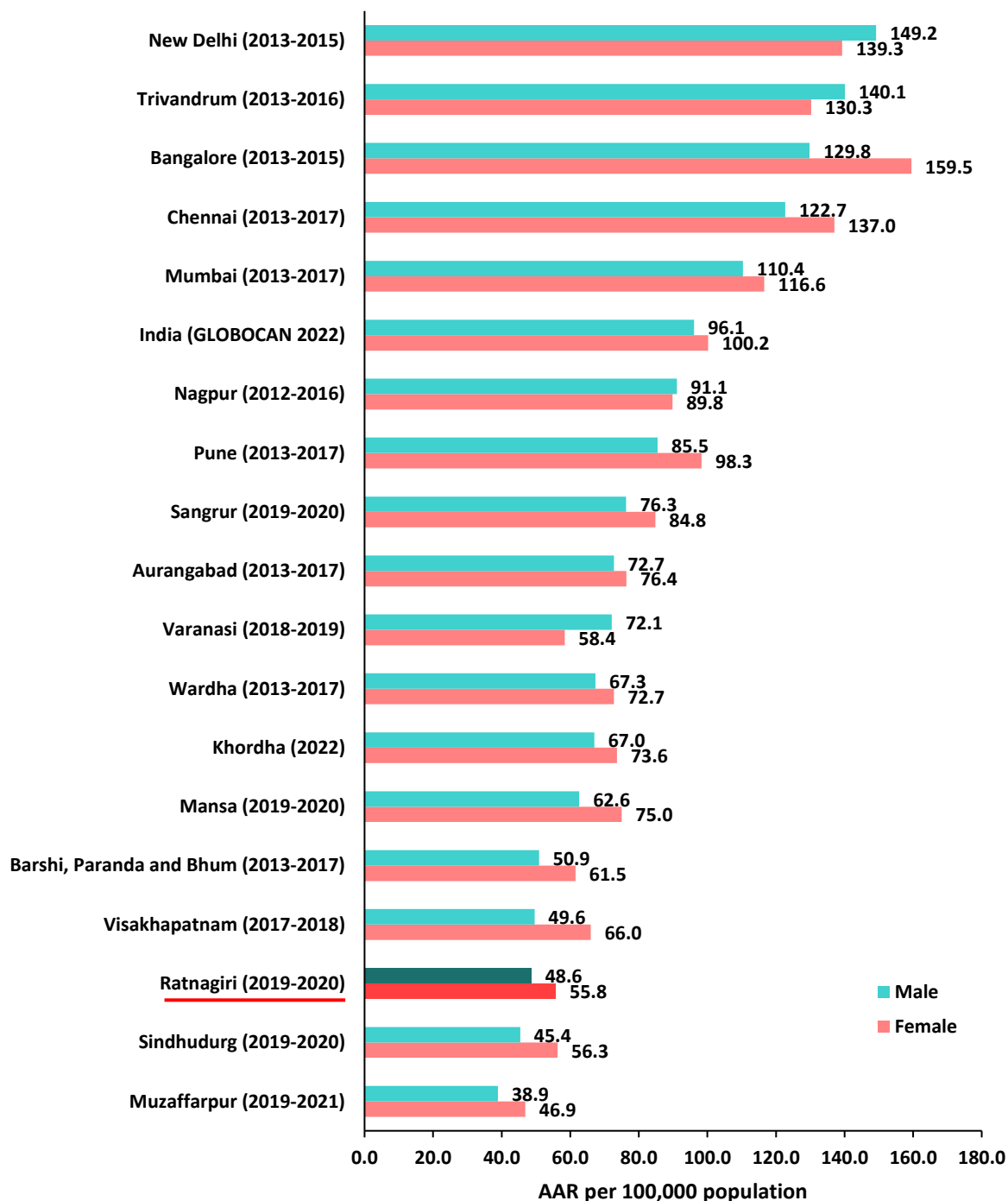
Paediatric Cancer Burden

The Ratnagiri PBCR is monitoring the paediatric cancer burden. The registry has maintained the data of the paediatric cancer cases as per the International Classification of Childhood Cancer (ICCC)-3 standard. Of the total 1,989 cancer cases, 23 (1.2%) cases are paediatric cancer cases. The paediatric cancer incidence in boys is 62.8 per million and for girls, it is 48.4 per million. The paediatric cancer rates are low compared to other registries in India. There is minimal under reporting because consultant from Tata Memorial Hospital, Parel, Mumbai visit BKL Walawalkar Hospital, Dervan once in a month enabling paediatric cancer diagnosis and treatment.

Comparison of Cancer Registry Rate with Other Registries in India

As compared with the other parts of the India, cancer incidence rate is lower and comparable with other parts of India.

Figure I: Age-Adjusted Incidence Rate of All Cancer Sites in Male and Female



1. Maharashtra State Profile

Maharashtra state is in the western peninsular region of India. It is bounded by the Indian states of Gujarat to the northwest, Madhya Pradesh to the north, Chhattisgarh to the east, Telangana to the southeast, Karnataka to the south, and Goa to the southwest and by the union territory of Dadra and Nagar Haveli and the Arabian Sea to the west. Maharashtra with a total area of 307,713 km² is the third-largest state by area in terms of land area and constitutes 9.36 % of India's total geographical area [1].

As per the Census 2011, the total population of Maharashtra is 11.24 Cr [1]. The state capital being Mumbai, the most populous urban area in India and Nagpur serving as the winter capital. Maharashtra is divided into five geographic regions. Konkan is the western coastal region, between the Western Ghats and the sea. It was formed on 1st May 1960. The state is divided into 6 divisions and 36 districts, 109 sub-divisions, and 358 talukas. Out of the total cultivable land in the state, about 60 % is used for grain crops in the Deccan region, especially rice in coastal Konkan and other high rainfall areas.

Thus, the population of Maharashtra forms 9.28 % of India in 2011. The population density of Maharashtra is 365 per square km which is lower than national average 382 per square km. Maharashtra is the second –most populous state in India. The 2011 census for the state found 55% of the population to be rural with 45% being urban-based. The total literacy rate of Maharashtra is 82.34%, which is greater than average literacy rate 72.98% of India.

Table 1: Maharashtra State Population, Literacy and Area

Sr. No.	Characteristics	Unit	Value
	Area		307,713
1	(a) Rural Area	km ²	298,619.45
	(b) Urban Area		9,093.55
2	District	Number	36
	Total Population (Census 2011)		112,374,333
3	(a) Rural Population	Lakh	61,556,074
	(b) Urban Population		50,818,259
4	Population Density	density/km ²	365
5	Female per 1000 Male	Number	929
6	Literacy Rate	%	82.34%

2. Ratnagiri District Profile

Ratnagiri was an administrative capital under the Sultanate of Bijapur. A fort built by the Bijapur Sultanate, reconstructed by the Maratha King Chhatrapati Shivaji Maharaj in 1670, is located on a headland near the harbor. In 1731, Ratnagiri came under the control of the Kingdom of Satara and in 1818, it was annexed into British India. The district is bounded by the Arabian Sea to the west, Sindhudurg district to the south, Raigad district to the north and Satara, Sangli and Kolhapur districts to the east. As per Census 2011 of India, Ratnagiri district ranks 28th in Maharashtra with a population of 1,615,069. This is 1.4% of the total population 112,374,333 of Maharashtra state [1]. It is a coastal district located on the west coast of Maharashtra, India.

Figure 1: Location of Population-Based Cancer Registry, Ratnagiri District, Maharashtra State, India

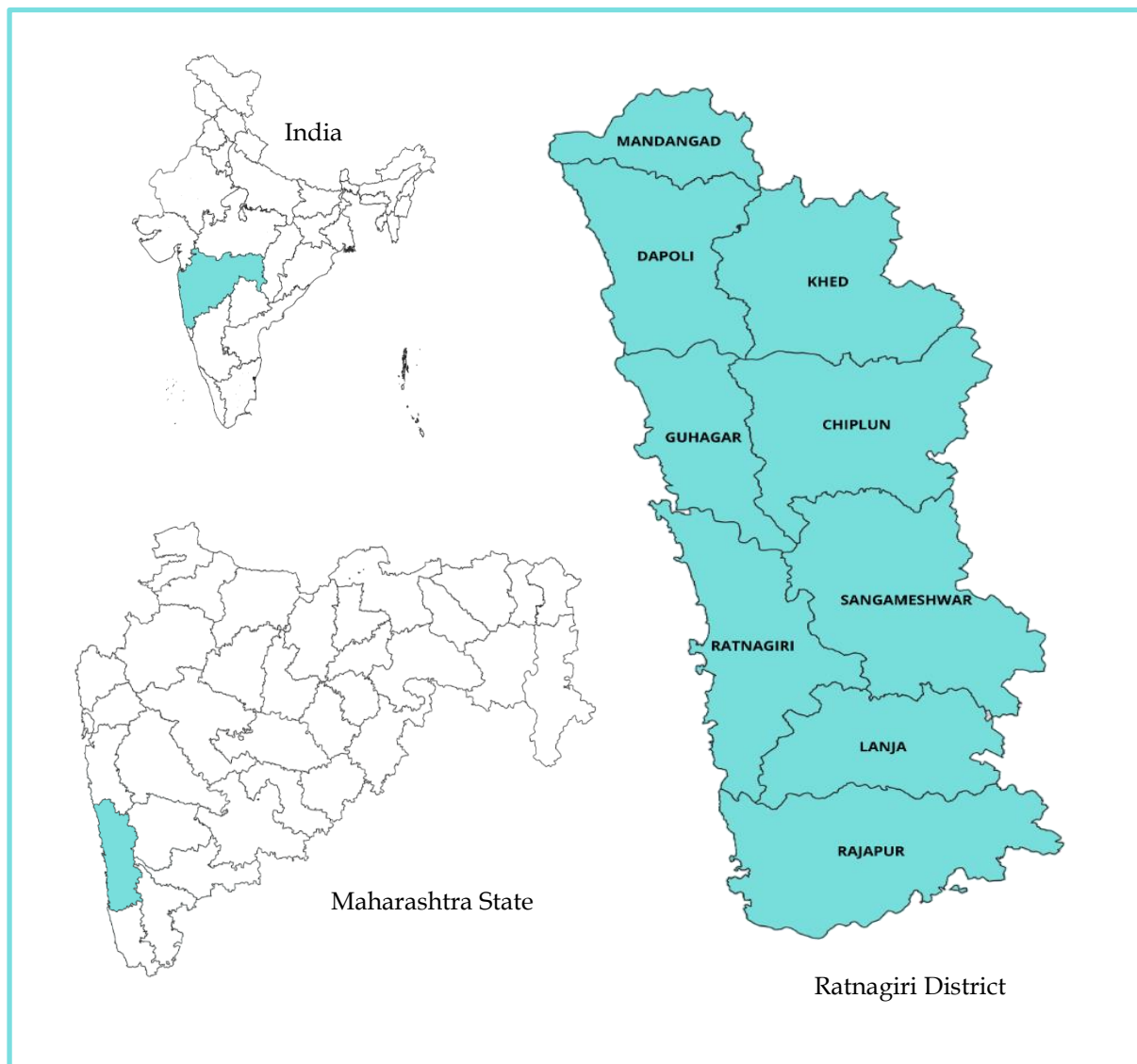


Table 2: Ratnagiri Population, Literacy and Area

Sr. No.	Characteristics	Unit	Value
	Area		8,208
1	(a) Rural Area	km2	8,089.83
	(b) Urban Area		118.17
2	Talukas	Number	9
	Total Population (Census 2011)		1,615,069
3	(a) Rural Population	Lakh	1,351,346
	(b) Urban Population		263,723
4	Density	density/km2	197
5	Female per 1000 Male	Number	1,122
6	Literacy Rate	%	82.18

Table 3: Talukas in Ratnagiri District

Taluka	Number of Villages
Chiplun	165
Guhagar	121
Lanja	122
Rajapur	238
Sangmeshwar	198
Dapoli	173
Khed	215
Mandangad	109
Ratnagiri	196
Total	1537

Health Infrastructure of Ratnagiri District

Ratnagiri district has One Civil Hospital and three Sub-District Hospitals (SDH) with basic diagnostic facility. The district has 8 Rural Hospitals (RH), 1 Urban Primary Health Centre (UPHC), 67 Primary Health Centres (PHC), 363 Sub-Centres (SC).

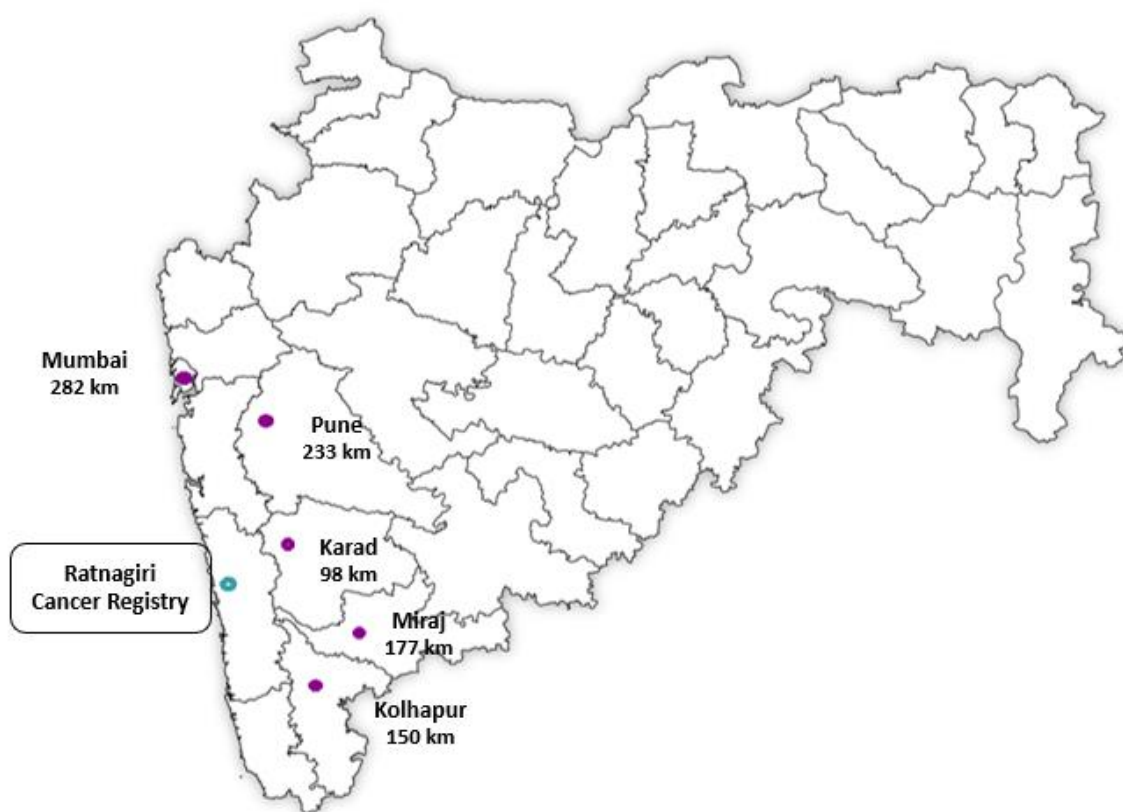
Table 4: Major Health Facilities in Ratnagiri District

Sr. No.	Institute	Number
1	Civil Hospital	1
2	Sub-District Hospital (SDH)	3
3	Rural Hospital (RH)	8
4	Urban Primary Health Centre (UPHC)	1
5	Primary Health Centre (PHC)	67
6	Sub-Centre (SC)	363
	Total	443

Cancer diagnosis and treatment facility in some private hospitals and pathology labs are available in the district. Some patients visit nearby districts Miraj, Kolhapur, Karad, Pune and Mumbai for further investigation and treatment of cancer. The distance from Ratnagiri PBCR to different cancer treatment centres is shown in Figure 2.

Mahatma Jyotiba Phule Jan Arogya Yojana (MJPJAY) and Ayushman Bharat- Pradhan Mantri Jan Arogya Yojana (PM-JAY) card provide health cover for cancer-based treatments. These schemes are very useful to the below poverty level community (BPL) for cancer diagnosis and treatment.

Figure 2: The Distance from Ratnagiri PBCR to different Cancer Treatment Centres in Maharashtra State, India.



3. Area and Population Covered by Cancer Registry

As per the 2011 census, the total population of Ratnagiri district is 1,615,069. Of the total population, 1,351,346 (83.7%) is rural and 263,723 (16.3%) is urban. Of the total population, 47.1% are males and 52.9% are females. The population as per the 2011 census is mentioned in Table 5.

Table 5: Ratnagiri District Population as per census 2011

Area	No of Households	Total	Male	Female
Rural	335,318	1,351,346	630,213	721,133
Urban	61,797	263,723	130,908	132,815
Total	397,115	1,615,069	761,121	853,948

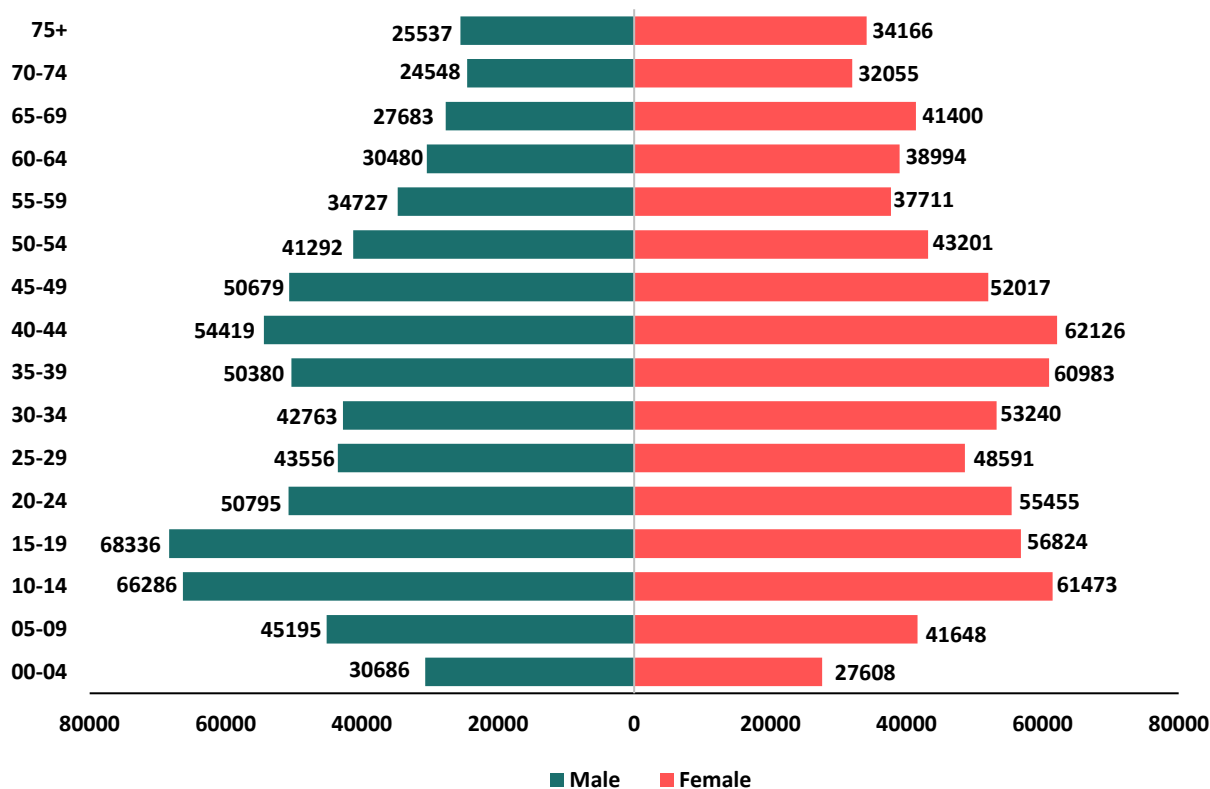
Estimated Population of Ratnagiri District: 2019-2020

The registry population for 2019 - 2020 was estimated by the ratio method using the 2001 to 2011 census population. For 2019-2020, the population is 1,434,854 in which 687,362 males (47.9%) and 747,492 females (52.1%). According to the A-2: Decadal Variation in Population Since 1901 dataset from the Registrar General of India (RGI, Census-2011), Ratnagiri district recorded a -4.82% decadal population growth between 2001 and 2011. Population projections further indicate a decline to -13.55% during 2011-2021, demonstrating a continued downward demographic trend. This sustained negative growth is largely attributed to out-migration, which remains a predominant factor influencing population decline in the district [19]. The estimated average population for 2019-2020 is presented in Table 6. The population pyramid of the Ratnagiri district is shown in figure 3.

Table 6: Average Estimated Population of Ratnagiri District 2019-2020

Age group	Male	%	Female	%	Total	%
00-04	30686	4.5	27608	3.7	58294	4.1
05-09	45195	6.6	41648	5.6	86843	6.1
10-14	66286	9.6	61473	8.2	127759	8.9
15-19	68336	9.9	56824	7.6	125160	8.7
20-24	50795	7.4	55455	7.4	106250	7.4
25-29	43556	6.3	48591	6.5	92147	6.4
30-34	42763	6.2	53240	7.1	96003	6.7
35-39	50380	7.3	60983	8.2	111363	7.8
40-44	54419	7.9	62126	8.3	116545	8.1
45-49	50679	7.4	52017	7.0	102696	7.2
50-54	41292	6.0	43201	5.8	84493	5.9
55-59	34727	5.1	37711	5.0	72438	5.0
60-64	30480	4.4	38994	5.2	69474	4.8
65-69	27683	4.0	41400	5.5	69083	4.8
70-74	24548	3.6	32055	4.3	56603	3.9
75+	25537	3.7	34166	4.6	59703	4.2
Total	687362	100.0	747492	100.0	1434854	100.0

Figure 3: Population Pyramid of Ratnagiri District 2019-2020



The following table enlists taluka wise numbers of incident and mortality cases.

Table 7: Taluka wise Incidence and Mortality

Taluka	Incidence	Mortality
Chiplun	390	251
Guhagar	161	109
Lanja	121	121
Rajapur	244	195
Sangameshwar	230	170
Dapoli	221	169
Khed	203	119
Mandangad	45	46
Ratnagiri	367	258
Taluka Unknown	7	-
Total	1989	1438

4. Cancer Registration Method

Staff Selection and Training

The field supervisor and field investigators were selected from the local area and they were trained in cancer registry operation at the Centre for Cancer Epidemiology, Tata Memorial Centre, Mumbai. To observe the working of the recruited cancer registry staff at BKL Walawalkar Hospital, Dervan, periodically, training programs were conducted by the CCE staff.

Cancer Incidence Cases

As an initial step of cancer registration, the field investigator visits the various sources to obtain information on cancer diagnosis and treatment. The sources include various hospitals, pathology laboratories, radiological centers, village panchayats, private doctors, Anganwadi workers, primary healthcare centers and non-governmental organizations (NGOs) etc. Many of the cases, who are residents of Ratnagiri district, visit Tata Memorial Hospital (TMH), Mumbai for diagnosis and treatment. For such cases, variables such as name, address, diagnosis, clinical notes etc. are matched and information is abstracted accordingly from TMH database for the Ratnagiri population-based cancer registry.

There are other cases that visit other hospitals in Mumbai, both private and government hospitals. Besides, cases also attend BKL Walawalkar hospital, Dervan for cancer care, since it is established as a comprehensive cancer centre with all facilities for diagnosis and treatment. TMH has collaborated with the BKL Walawalkar Hospital for a large outreach screening program for common cancers as mentioned earlier, due to which, a large population base has been utilizing this opportunity to seek cancer diagnosis and treatment.

As per the information provided by the patient/patient's relative, the field investigator communicates with the treating cancer centre, collects the clinical details of the patient and registers the cancer case in the prescribed proforma. In case of inaccessibility to the medical records of the patient, staff registers the case based on the information provided by the patient/patient's relatives.

During the second visit, the field investigator updates the status of the cancer cases, also identifies any new cancer cases/deaths in the village and repeats the same procedure mentioned above. This is the process of village visits and is conducted periodically.

Cancer Death Cases

During the village visit, the field investigator inquire about cancer death that have occurred in the village and also collects the death case information from the village, panchayat death register as well as birth and death registrar's office. In the same manner as the cancer incidence cases, the field investigator interacts with the patient's relative and collects information regarding cancer death. Based on the information provided by the relatives and

by matching the information with medical records available in the cancer registry, the cancer deaths are registered.

Cancer Prevalent Cases

During the field visit, investigators get prevalent cases. Field staff collect their information and maintain it in the registry office and follow up to check the status of the patient.

Residence Confirmation

Since the registry data is dependent on geographical boundaries of any specified population, residence confirmation is required in the PBCR. Residence confirmation is done either by doing the house visit on given address or through the telephone numbers, if available. During the house visit, field staff check the diagnostic information and also try to get treatment and follow up information of the patient. During the Covid-19 pandemic, passive follow up was done by telephonic means. Field investigator visits cancer cases every 6 months.

Cancer Registration

As per the international guidelines and reporting by the population-based cancer registries, the cases registered in the Ratnagiri cancer registry are based on the following criteria.

Inclusion Criteria

Only malignant cases.

Resident of Ratnagiri District at least for one year.

Exclusion Criteria

All suspicious and Non- cancer cases.

Those who are not resident of Ratnagiri District

Data Checking and Quality Control

All the cases collected by field investigator from the villages, wards, diagnostic centres as well as from the cancer treating hospital scrutinized by the CCE staff. After residence confirmation, the cancer case information is documented in a prescribed format. The primary site and histology are coded based on the International Classification of Diseases for Oncology –Third Edition, Geneva, 2000 (ICD-O3). The TMH (CCE) staff checks all the data and ICD coding as well the difficult cases were discussed with the clinician/pathologist. CCE-TMC team regularly visits the project office for quality control.

Duplicate Checks

Checking duplicates by comparing various fields like name, address, gender, age and cancer site.

There are two methods to find out the duplicates.

Manual Method – Using the index card

Electronic Method – Using the software (Electronic Medical Record)

Data Entry

The data entry is carried out in CanReg5 software developed by the International Agency for Research on Cancer (IARC), Lyon, France [14].

After duplicate checking and other quality measures, the cancer incidence and death cases registered. The registration process of the registry is presented in figure 4.

Cancer Cases Data Collection from Different Sources

The registry staff regularly visit the following centres to collect information on the cancer cases and death cases of Ratnagiri district.

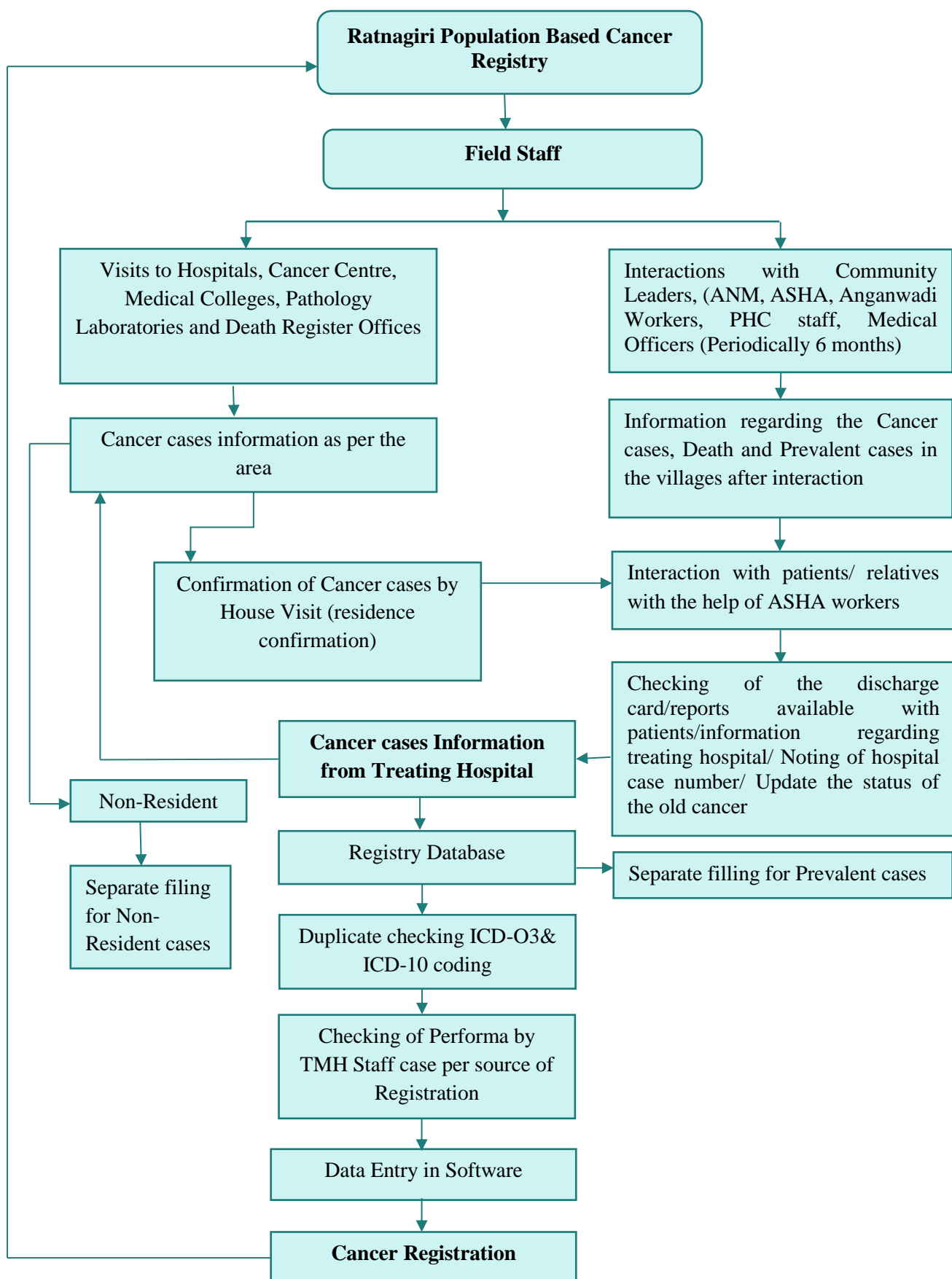
Table 8: Different Sources of Data Collection

Sr. No.	Institution Name	Place
1	Tata Memorial Hospital (TMH)	Mumbai
2	BKL Walawalkar Rural Medical College & Hospital	Dervan, Ratnagiri
3	Sanjeevani Pathology Laboratory	Ratnagiri
4	Prime Diagnostics Centre	Ratnagiri
5	Shraddha Pathology Lab	Ratnagiri
6	Hind Lab Diagnostic Centre (Mahalab)	Ratnagiri
7	Nishkarsh Diagnostics	Ratnagiri
8	Sanjeevani Hospital	Ratnagiri
9	Parkar Hospital and Research Institute	Ratnagiri
10	Chirayu Hospital	Ratnagiri
11	Bidikar Hospital	Ratnagiri
12	Dr. Munir Mhaskar Hospital	Ratnagiri
13	Dr. Arun Nalawade, ENT Surgeon	Ratnagiri
14	Dr. Manchekar Hospital	Ratnagiri
15	Dr. Sunil Gogate, Urologist	Ratnagiri
16	Dr. Gondhlekar Clinic	Ratnagiri
17	Civil Hospital	Ratnagiri
18	Non-Communicable Diseases Centre	Ratnagiri
19	Onco-Lifecare Cancer Centre	Chiplun
20	Dr. Ghanekar Hospital & Oncology Centre	Chiplun
21	Dr. Reelkar's Shraddha Hospital	Chiplun
22	Aparant Hospital	Chiplun
23	Patankar Nursing Home & Urology centre	Chiplun
24	Dr. Garud Hospital	Chiplun
25	Aarogyam Path Lab	Chiplun
26	Dr. Desai Hospital	Chiplun

Ratnagiri District PBCR Report 2019-2020

Sr. No.	Institution Name	Place
27	SMS Hospital	Chiplun & Devrukh Sangmeshwar
28	MD Path Lab	Devrukh Sangmeshwar
29	Khan Bahadur Memorial Hospital	Dapoli
30	Mehta Hospital	Dapoli
31	Dr.Patwardhan Hospital	Dapoli
32	Dr. Bhagwat Hospital	Dapoli
33	Dr. Bhatkar Hospital	Dapoli
34	Shushrut Hospital	Dapoli
35	Modern Path Lab	Khed
36	Yogita Dental College	Khed
37	Dr. Gharda Hospital	Khed
38	Nagarparishad (Death Record)	Rajapur
39	Siddhivinayak Clinical Laboratory	Rajapur
40	Joshi Hospital	Rajapur
41	Mauli Clinic	Rajapur
42	Soham Clinic	Lanja
43	Sadichha Clinic	Lanja
44	Eklure Hospital	Lanja
45	Shree Mangesh Hospital	Lanja
46	Chhotubhai Desai Hospital	Lanja
47	Dhanvantari Clinic	Lanja
48	Shraddha Maternity Hospital	Mandangad
49	Sure Path Lab & Diagnostic Centre	Kankavli
50	Omkar Path Lab	Kankavli
51	Dr. Abu Tayshetye Hospital	Kankavli
52	Krishna Institute of Medical Sciences	Karad
53	Shri Siddhivinayak Ganpati Cancer Hospital	Miraj
54	Mahatma Gandhi Hospital	Miraj
55	Kolhapur Cancer Center	Kolhapur
56	Aster Aadhar Hospital	Kolhapur
57	Oncosight Diagnostics	Pune
58	Primary Health Centre (PHC)	Villagewise
59	Rural Hospital (RH)	Villagewise
60	Sub-District Hospital (SDH)	Villagewise
61	Sub-Centre (SC)	Villagewise

Figure 4: Cancer Registration Method



5. Cancer Cases Registered by Source of Registration

First Source of Registration

BKL Walawalkar Hospital, Dervan served as a primary source of information for identifying newly diagnosed cancer cases followed by Tata Memorial Hospital, Mumbai. 30% of incidence cases are registered from BKL Walawalkar Hospital as the first source of information. The cancer incidence cases registered by the source of registration are mentioned in Table 9.

Table 9: Cancer Incidence Cases Information by the First Source of Cancer Registration

Sr. No.	Source	Male	%	Female	%	Total	%
1	BKL Walawalkar Hospital, Dervan, Ratnagiri	273	32.2	331	29.0	604	30.4
2	Tata Memorial Hospital, Mumbai	154	18.2	175	15.3	329	16.5
3	Govt. Health Department (CH, SDH, RH UPHC, PHC, PHSC and NCD)	105	12.4	118	10.3	223	11.2
4	Dr. Ghanekar Hospital & Oncology Centre, Chiplun	64	7.6	127	11.1	191	9.6
5	Village Visit (Aanganwadi, Asha Worker, Grampanchayat)	57	6.7	103	9.0	160	8.0
6	Onco-Lifecare Cancer Centre, Chiplun	56	6.6	85	7.4	141	7.1
7	Private Doctor/Nursing Home	56	6.6	83	7.3	139	7.0
8	Kolhapur Cancer Center, Kolhapur	35	4.1	41	3.6	76	3.8
9	TMC Chest, Ratnagiri	21	2.5	34	3.0	55	2.8
10	Shri Siddhivinayak Ganpati Cancer Hospital, Miraj	14	1.7	7	0.6	21	1.1
11	Pathology Laboratory	4	0.5	12	1.1	16	0.8
12	Aster Aadhar Hospital, Kolhapur	-	-	7	0.6	7	0.4
13	Krishna Institute of Medical Sciences, Karad	4	0.5	2	0.2	6	0.3
14	Parkar Hospital, Ratnagiri	1	0.1	4	0.4	5	0.3
15	Chirayu Hospital, Ratnagiri	1	0.1	2	0.2	3	0.2
16	Others	2	0.2	11	1.0	13	0.7
Total		847	100.0	1142	100.0	1989	100.0

6. Quality Control

Mortality to Incidence Ratio

The mortality-incidence or MI ratio is an indicator of the completeness and accuracy of cancer registry data. In the year 2019-2020, 1,989 incidence cancer cases [males 847 (42.6%) and female 1,142 (57.4%)] have been registered by PBCR, Ratnagiri. For the same period, 1,438 cancer deaths have been registered [males 688 (47.8%) and females 750 (52.2%)]. The overall mortality to incidence (MI) ratio is 0.72 (72.3%), for males 0.81 (81.2%) and for females 0.66 (65.7%).

Re-Abstraction of the Cases

A quality control exercise was carried out for the improvement of the records and to retrain the staff, if required. The CCE-TMC team checked all cancer case data. During the quality control exercise, it was observed to retrain the registry staff in the abstraction of cases of the primary site unknown, metastatic and lymphoma leukaemia. Based on the results, the staff was re-trained by CCE-TMC, Mumbai. The data was modified and re-entered.

Incidence Rates of Childhood Cancers

In the year 2019-2020, PBCR has registered cancer cases 13 in boys and 10 in girls. The age-specific rates reported the paediatric cancers are mentioned in table 10.

Table 10: Incidence Rate of Paediatric Cancer Cases in Ratnagiri District: 2019-2020

Age Group	Boys		Girls	
	Number of Cases	Age-Specific Rate	Number of Cases	Age-Specific Rate
00-04	8	130.4	5	90.6
05-09	1	11.1	1	12.0
10-14	4	30.2	4	32.5
Age Adjusted Rate per 1,000,000 (AAR per million)	62.8		48.4	

Of the total 1,989 cancer cases, 23 (1.2%) cases are paediatric cancer cases. The age-adjusted incidence rate for the paediatric age group (0-14) was 62.8 per million for boys and 48.4 per million for girls.

Microscopic Verification of the Cases

In the year 2019-2020, out of 847 male cases, 760 cases (89.7%) were diagnosed with microscopic verification, (2.6%) of cases were diagnosed based on radiological findings and (4.0%) of cases were diagnosed clinically. In females, out of 1,142 cases, we have 1,034 cases (90.5%) diagnosed with microscopic verification, (1.9%) of cases were diagnosed on radiological findings and (4.1%) of cases were diagnosed clinically. Most of the other and unspecified cases were cases of metastatic lymph node, primary site unknown diagnosed by microscopic and radiological diagnosis.

Cases Registered Based on narrations by the Patient's Relatives (Verbal Autopsy)

While interacting with the house/village visit it was learned that the patient's relatives burnt the medical documents after the patient death. In some cases, individuals did not complete the required treatment despite consultation with an oncologist/cancer centre due to social/financial issues. Many of these patients destroyed their pathology reports, CT scans, and discharge summaries. In this situation, we interacted with the patient or their relatives and asked them the following questions to obtain information:

- 1. Where was the patient first diagnosed? Which hospital did the patient visit?**
- 2. What was the opinion of the treating Doctor's?**
- 3. Whether the patient has taken any treatment (chemotherapy/radiotherapy)?**
- 4. Where did the patient first undergone MRI/CT scan/USG?**

Once the information was obtained, the registry attempted to identify evidence based on the patient's/ relative's narration, such as the patient verbally providing the date of biopsy or the patient mentioning the received chemotherapy/radiotherapy/surgery or the name of the medical/surgical/radiation Doctor from whom the patient was receiving treatment. The registry has recorded the cancer case based on the information collected through these narrations. When registry has strong evidence based on verbal autopsy, case is registered. Weak evidence cases are not registered by the registry staff.

These cases are also traced back to the treating hospital by registry staff. Due to lack of co-operation from hospital the staff do not always retrieve medical records from the treating hospital. The cancer registries in Barshi, Sangrur, Mansa, and Varanasi, as well as Gadchiroli adopted a similar approach to cancer registration.

In the coming years, due to cancer awareness as well awareness of availability of government funded health insurance scheme for cancer treatment, we may improve the cancer registration.

Death Certificate Only Cases (DCO)

We have registered 31 cases in males (3.7%) and 39 cases in females (3.4%) under the DCO/Verbal Autopsy. Training was provided about how to collect verbal autopsy form information from relative remarks/discharge summary available with the patient's relative.

Per Source Case Registration

The number of sources per incidence case registered was noted. The cases were counted as per source notification. In Ratnagiri district, the average number of sources per the case registered is 1.9, details are mentioned in the Table 11. Due to community interactions, the coverage is satisfactory.

Table 11: Per Source Case Registration

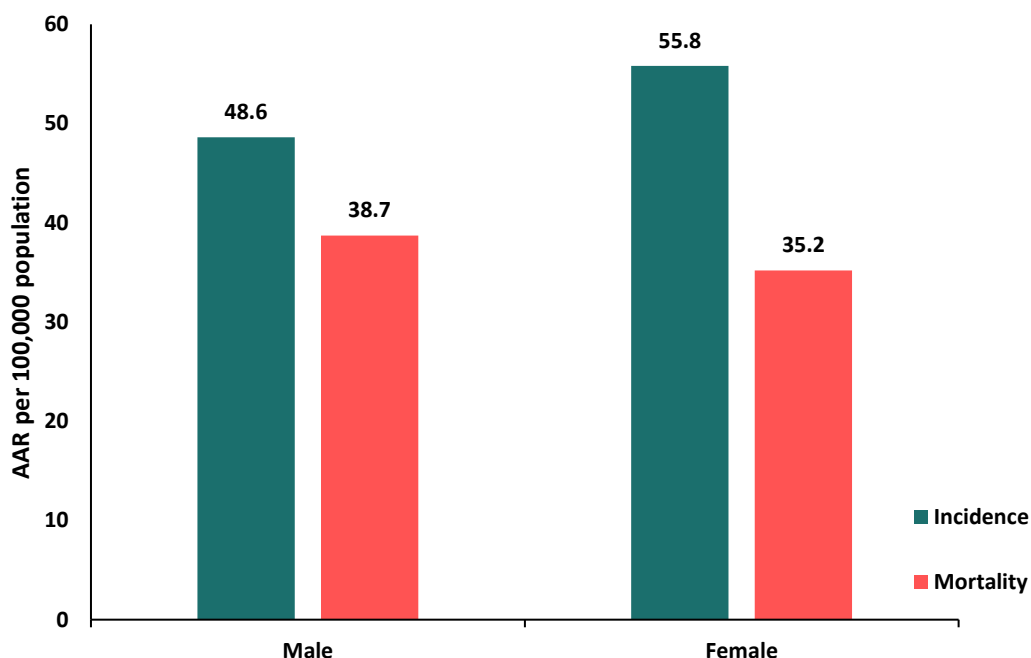
Source	Number of Cases Confirm
Source 1	706
Source 2	925
Source 3	313
Source 4	40
Source 5	5
Total Source	3680
Per source of registration	1.9
	3680/1989

7. Cancer Incidence and Mortality: All Sites

In the year 2019-2020, the cancer registry registered 1,989 cancer cases. There were 847 male (42.6 %) cases and 1,142 female (57.4 %) cases. The age adjusted incidence rate for males was 48.6 per 100,000 populations and for females; it was 55.8 per 100,000 populations.

In the year 2019-2020 the cancer registry registered 1,438 cancer deaths of which 688 were male (47.8 %) deaths and 750 were female (52.2 %) deaths. The age-adjusted mortality rate for males was 38.7 per 100,000 populations and for females; it was 35.2 per 100,000 populations. The cancer incidence and mortality rates for all sites for males and females are presented in Figure 5.

Figure 5: All Sites Cancer Incidence and Mortality Rate by Gender: 2019-2020



8. Gender-wise Leading Cancer Sites

In Males, Mouth, Tongue, Lung, Stomach, Rectum, Prostate, Oesophagus, Hypopharynx, NHL and Colon are leading cancer sites. The top ten leading cancer site in males are presented in Figure 6. In Females, Breast, Mouth, Ovary etc, Cervix Uteri, Oesophagus, Tongue, lung, Rectum, Corpus Uteri, and NHL are leading cancer sites. The top ten leading cancer site in females are presented in Figure 7.

Figure 6: Leading Cancer sites in Males 2019-2020

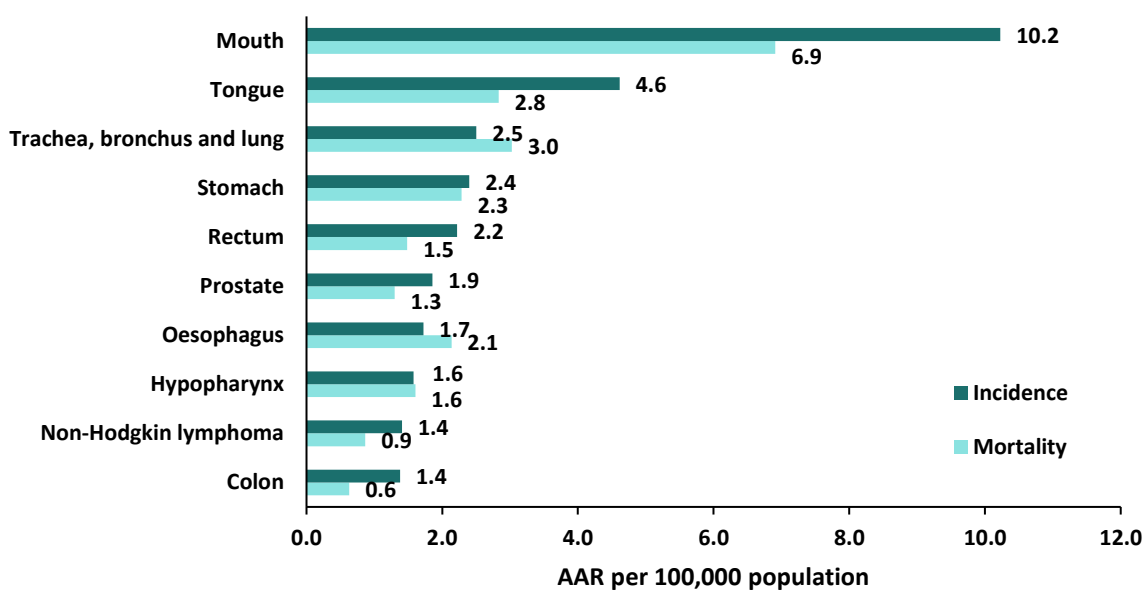
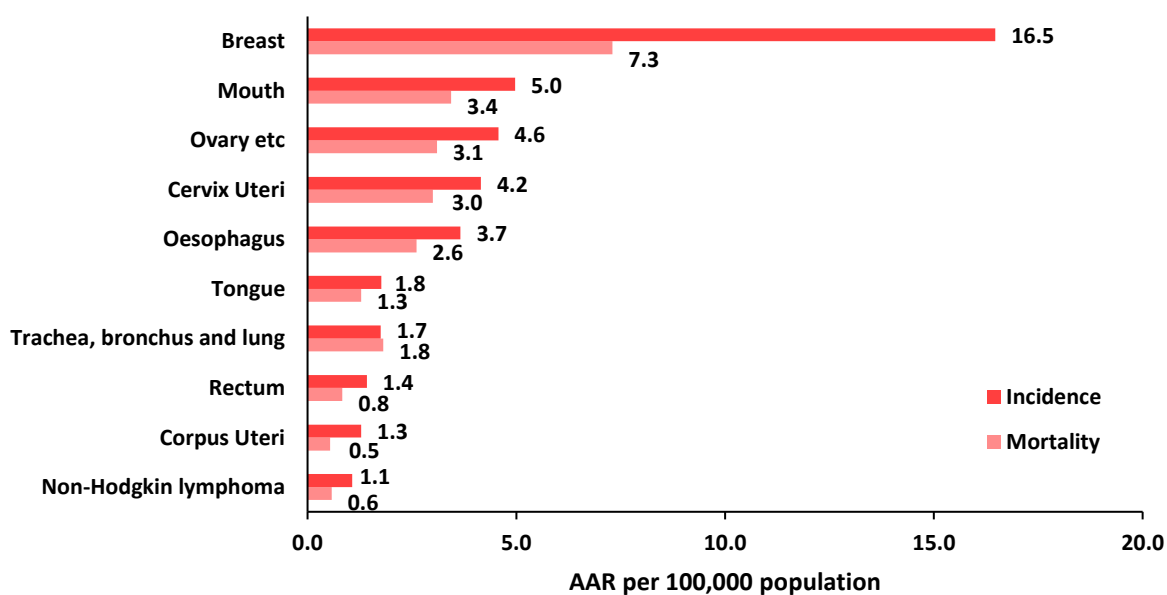


Figure 7: Leading Cancer Sites in Females 2019-2020



Comparison of Leading Cancer Sites with Other Indian Registries

Cancer of Mouth (C03-C06): 2019-2020

	Male	Female
Number of Cases	181	110
% to Total Cases	21.4	9.6
Crude Incidence Rate per 100,000	13.2	7.4
Age Adjusted Incidence Rate per 100,000	10.2	5.0
Truncated Rate per 100,000	23.2	11.3

Figure 8: Age-Specific Incidence Rate of Cancer of Mouth

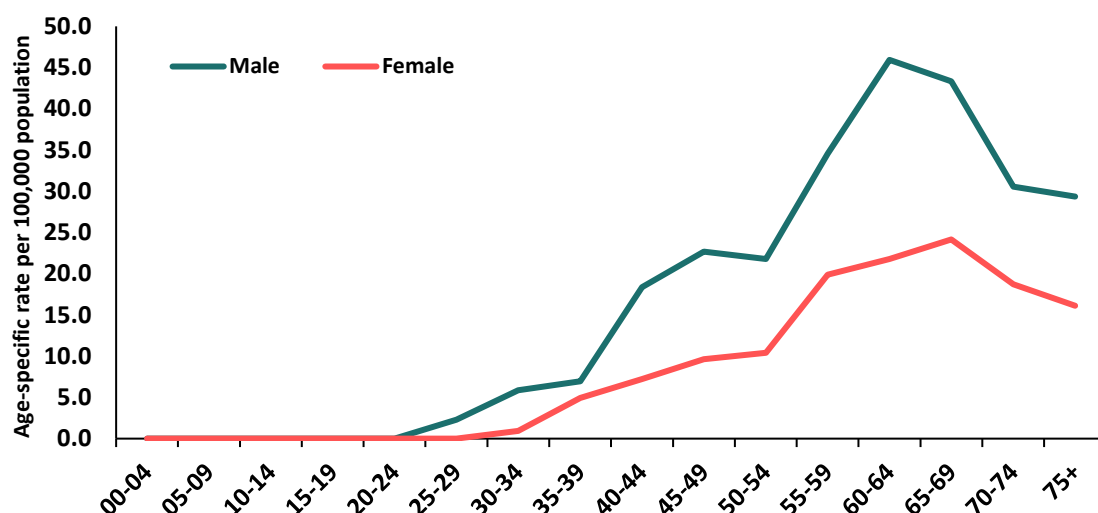
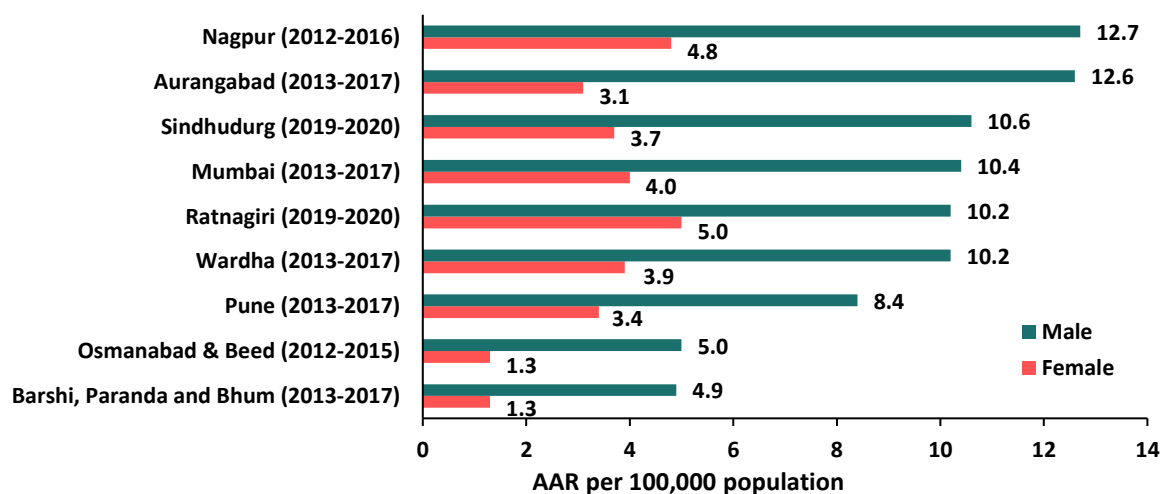


Figure 9: Comparison of Mouth Cancer Incidence Rate with Other Indian Registries



Cancer of Tongue (C01-C02): 2019-2020

	Male	Female
Number of Cases	79	39
% to Total Cases	9.3	3.4
Crude Incidence Rate per 100,000	5.7	2.6
Age Adjusted Incidence Rate per 100,000	4.6	1.8
Truncated Rate per 100,000	12.1	3.8

Figure 10: Age-Specific Incidence Rate of Cancer of Tongue

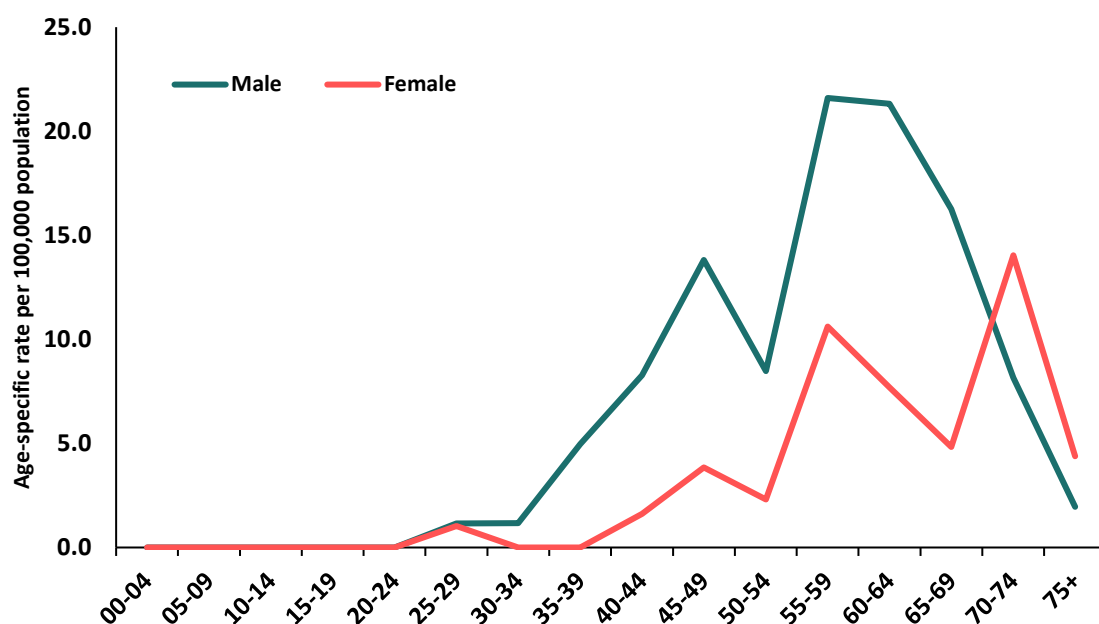
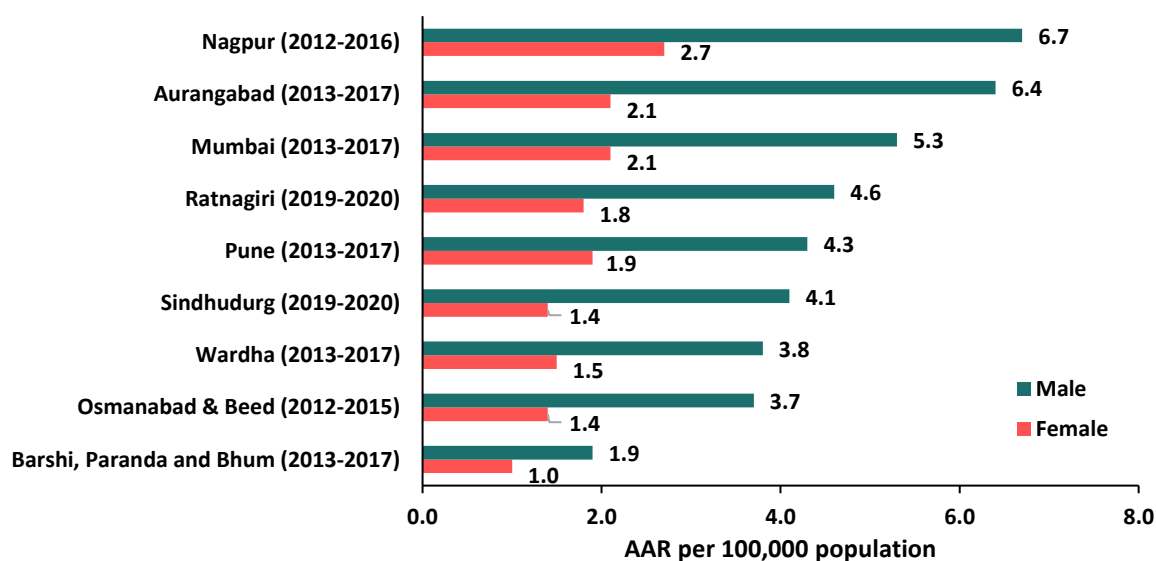


Figure 11: Comparison of Tongue Cancer Incidence Rate with Other Indian Registries



Cancer of Trachea, Bronchus and Lung (C33-C34): 2019-2020

	Male	Female
Number of Cases	45	35
% to Total Cases	5.3	3.1
Crude Incidence Rate per 100,000	3.3	2.3
Age Adjusted Incidence Rate per 100,000	2.5	1.7
Truncated Rate per 100,000	4.7	4.8

Figure 12: Age-Specific Incidence Rate of Cancer of Trachea, Bronchus and Lung

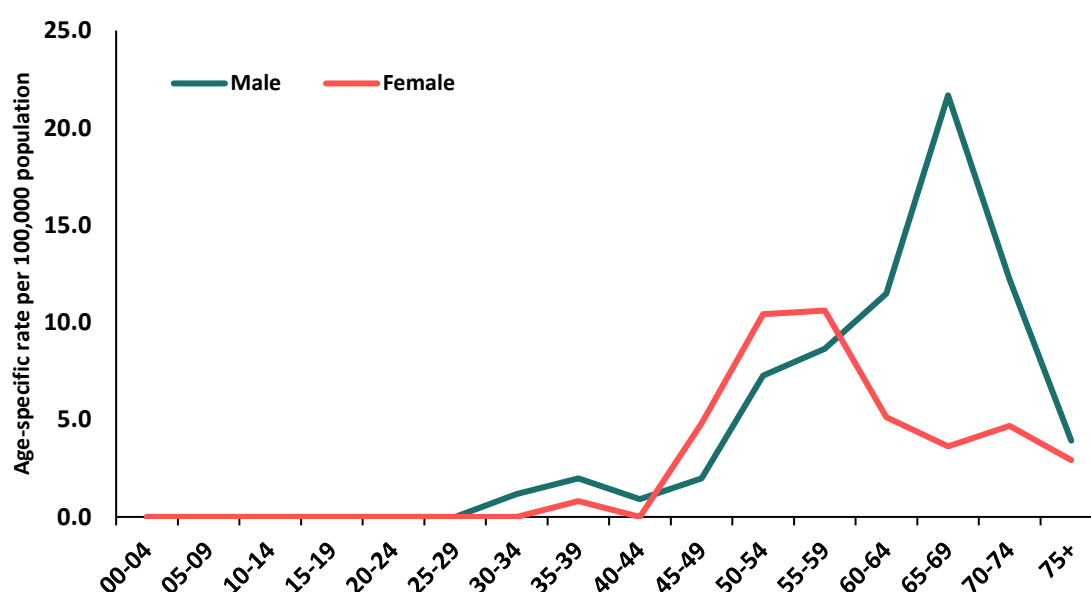
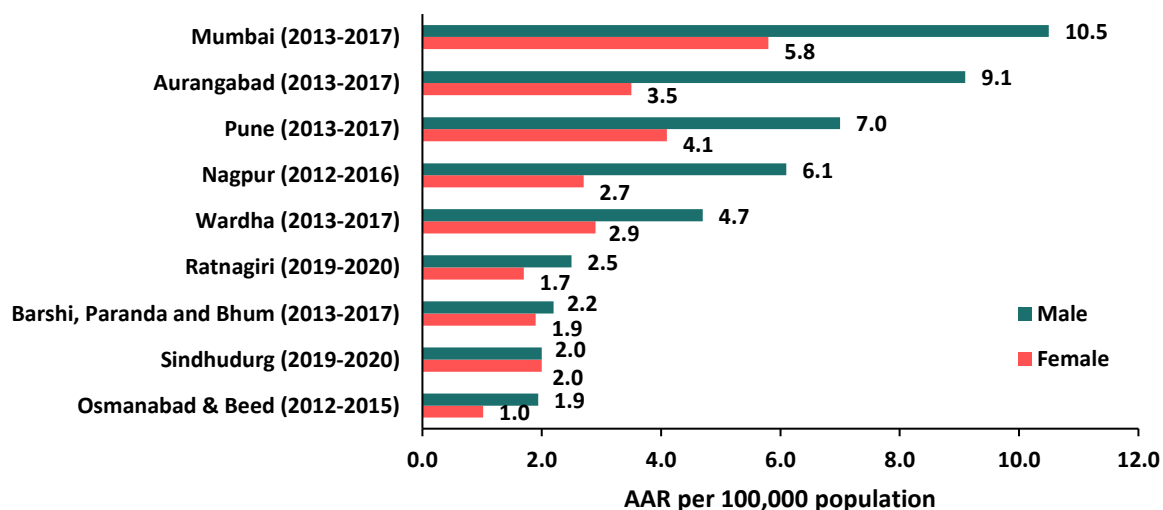


Figure 13: Comparison of Trachea, Bronchus and Lung Cancer Incidence Rate with Other Indian Registries



Cancer of Stomach (C16): 2019-2020

	Male	Female
Number of Cases	43	22
% to Total Cases	5.1	1.9
Crude Incidence Rate per 100,000	3.1	1.5
Age Adjusted Incidence Rate per 100,000	2.4	1.0
Truncated Rate per 100,000	5.4	1.9

Figure 14: Age-Specific Incidence Rate of Cancer of Stomach

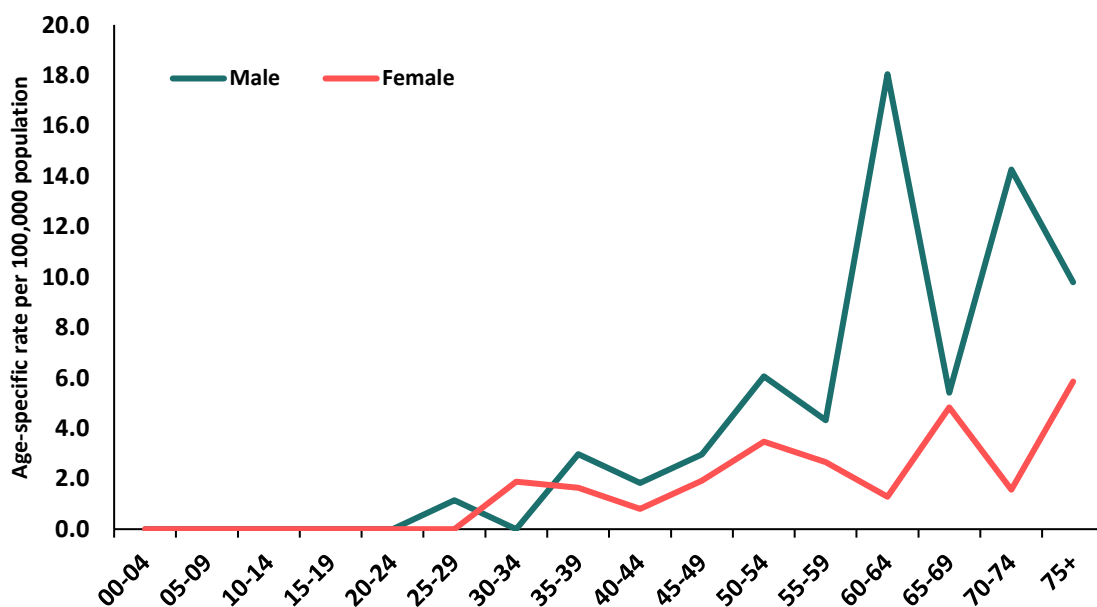
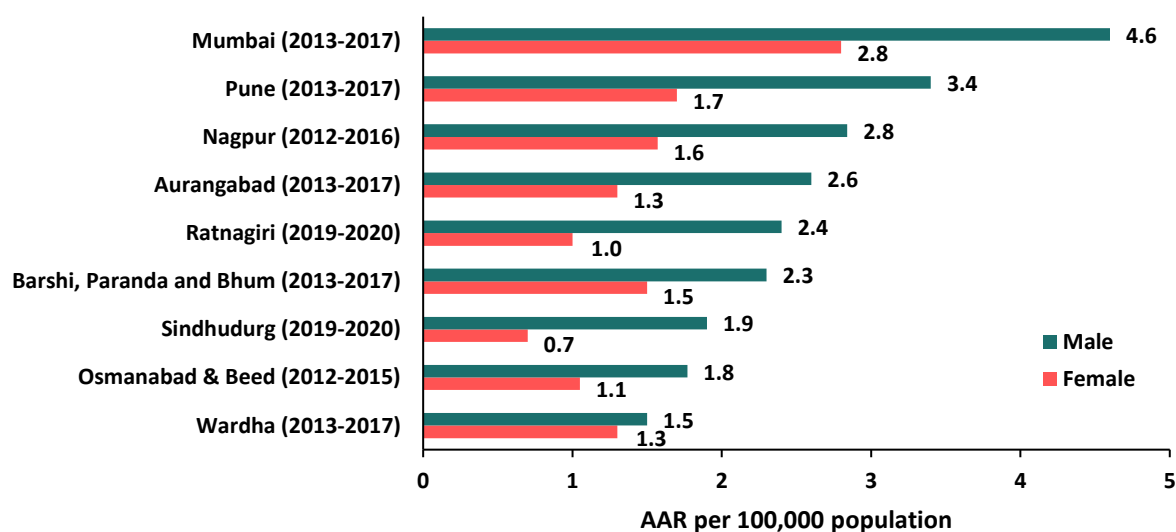


Figure 15: Comparison of Stomach Cancer Incidence Rate with Other Indian Registries



Cancer of Rectum (C19-C20): 2019-2020

	Male	Female
Number of Cases	40	29
% to Total Cases	4.7	2.5
Crude Incidence Rate per 100,000	2.9	1.9
Age Adjusted Incidence Rate per 100,000	2.2	1.4
Truncated Rate per 100,000	4.1	2.6

Figure 16: Age-Specific Incidence Rate of Cancer of Rectum

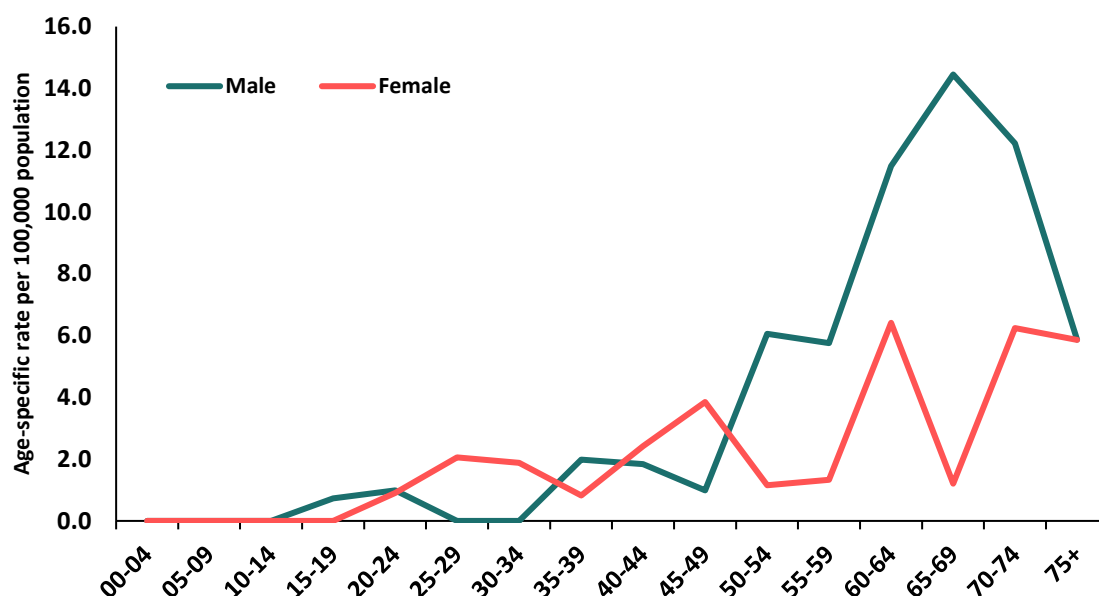
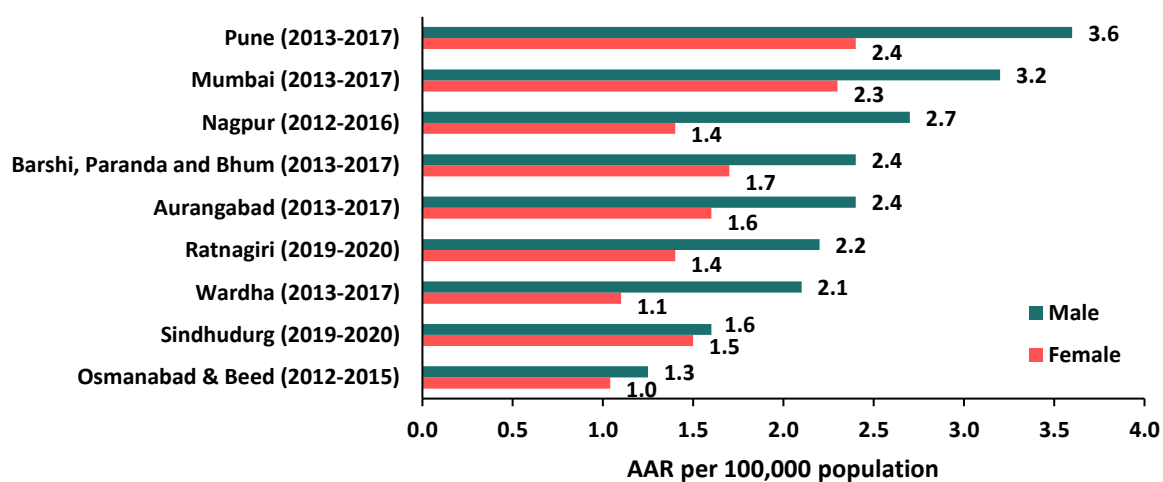


Figure 17: Comparison of Rectum Cancer Incidence Rate with Other Indian Registries



Cancer of Breast (C50): 2019-2020

	Female
Number of Cases	334
% to Total Cases	29.2
Crude Incidence Rate per 100,000	22.3
Age Adjusted Incidence Rate per 100,000	16.5
Truncated Rate per 100,000	40.5

Figure 18: Age-Specific Incidence Rate of Cancer of Breast

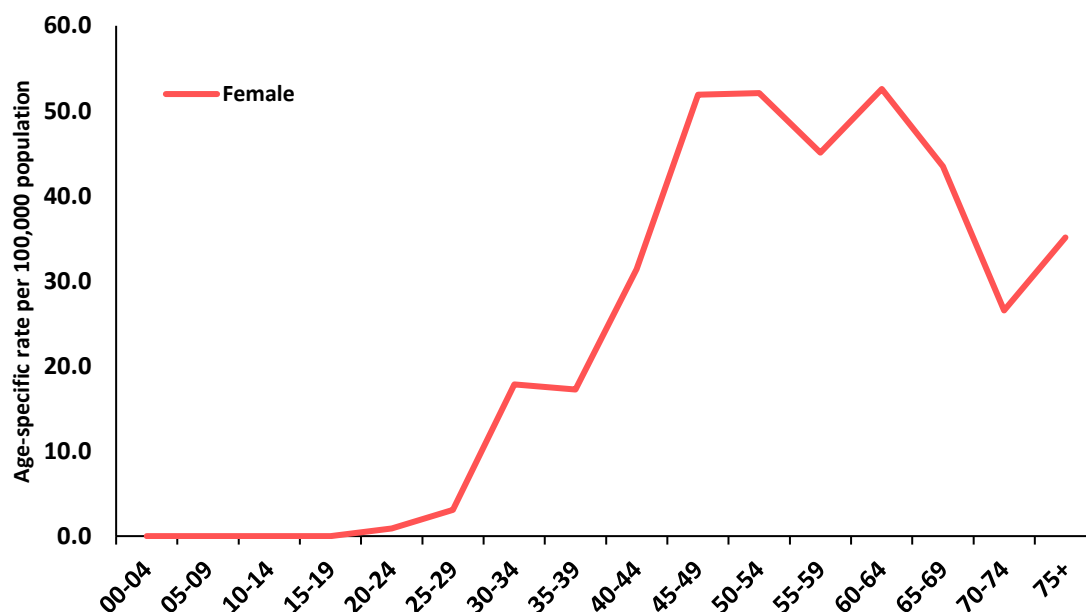
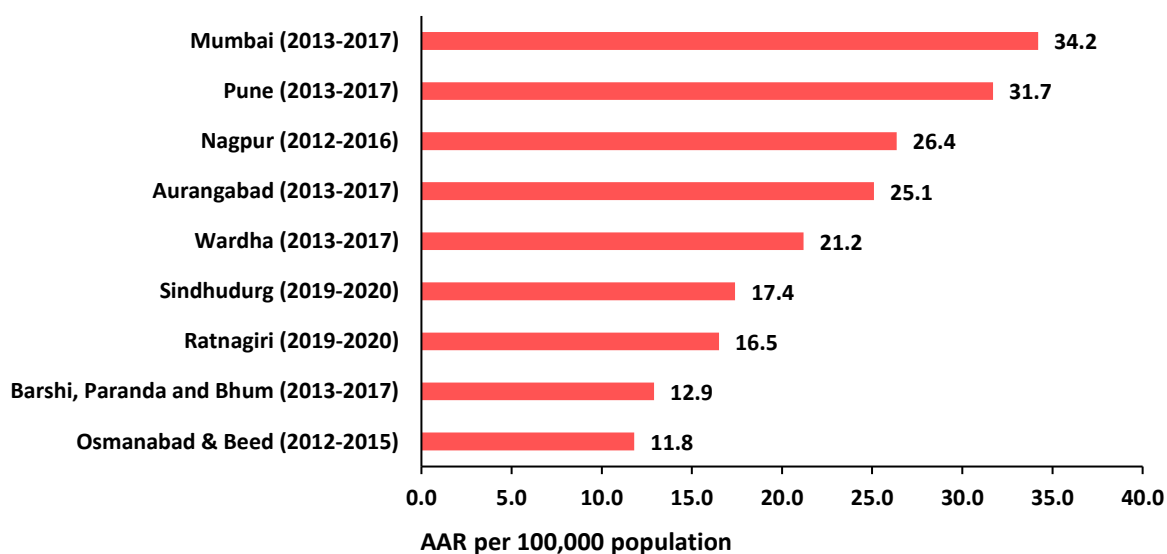


Figure 19: Comparison of Breast Cancer Incidence Rate with Other Indian Registries



Cancer of Cervix Uteri (C53): 2019-2020

	Female
Number of Cases	93
% to Total Cases	8.1
Crude Incidence Rate per 100,000	6.2
Age Adjusted Incidence Rate per 100,000	4.2
Truncated Rate per 100,000	9.1

Figure 20: Age-Specific Incidence Rate of Cancer of Cervix Uteri

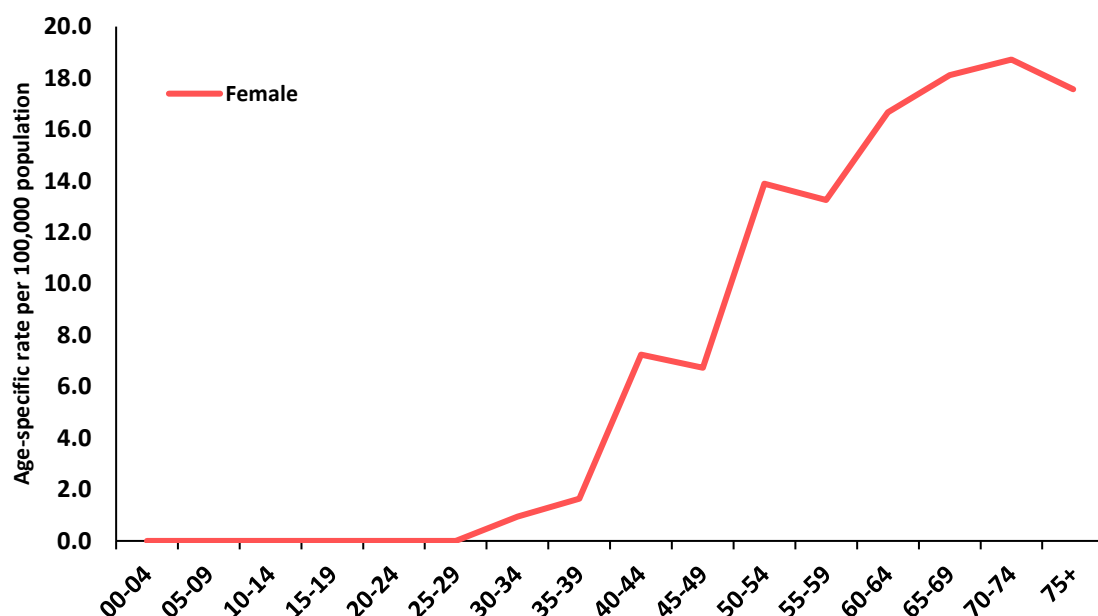
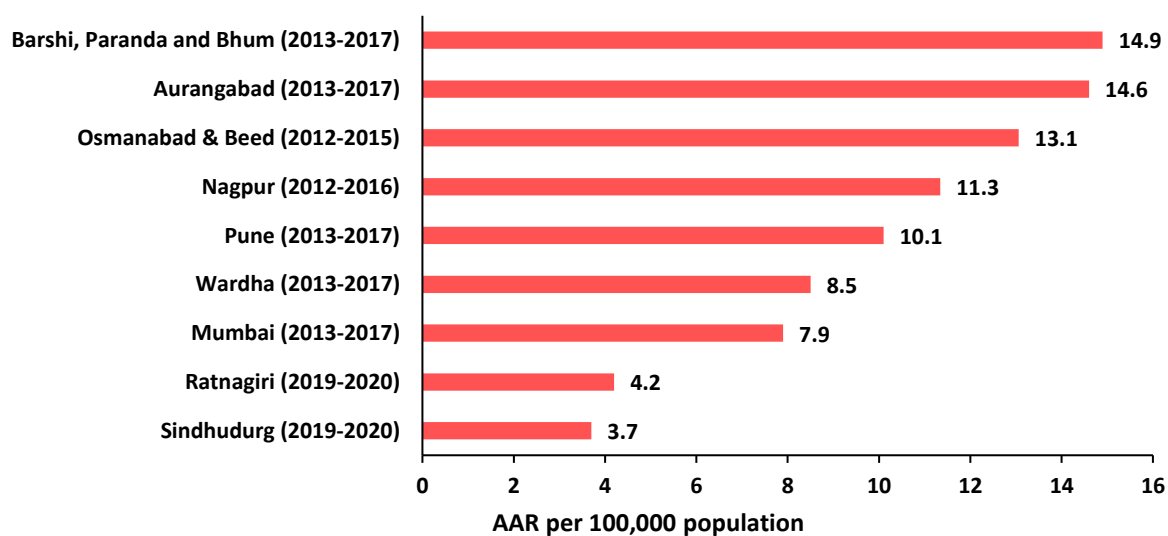


Figure 21: Comparison of Cervix Uteri Cancer Incidence Rate with Other Indian Registries



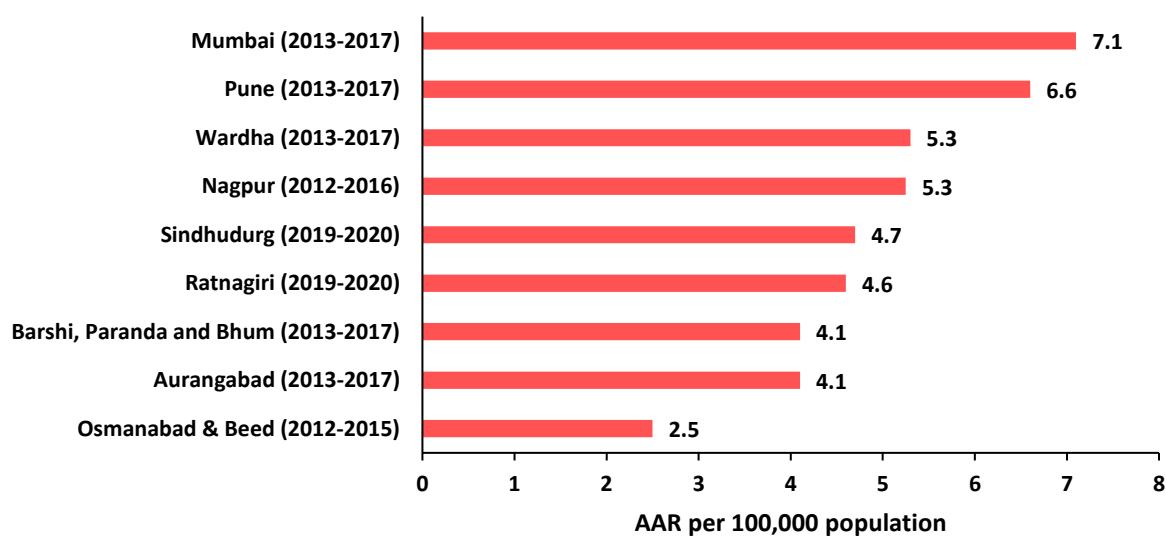
Cancer of Ovary etc. (C56): 2019-2020

	Female
Number of Cases	90
% to Total Cases	7.9
Crude Incidence Rate per 100,000	6.0
Age Adjusted Incidence Rate per 100,000	4.6
Truncated Rate per 100,000	11.4

Figure 22: Age-Specific Incidence Rate of Cancer of Ovary etc.



Figure 23: Comparison of Ovary etc. Cancer Incidence Rate with Other Indian Registries



Cancer of Oesophagus (C15): 2019-2020

	Male	Female
Number of Cases	36	80
% to Total Cases	4.3	7.0
Crude Incidence Rate per 100,000	2.6	5.4
Age Adjusted Incidence Rate per 100,000	1.7	3.7
Truncated Rate per 100,000	1.9	8.1

Figure 24: Age-Specific Incidence Rate of Cancer of Oesophagus

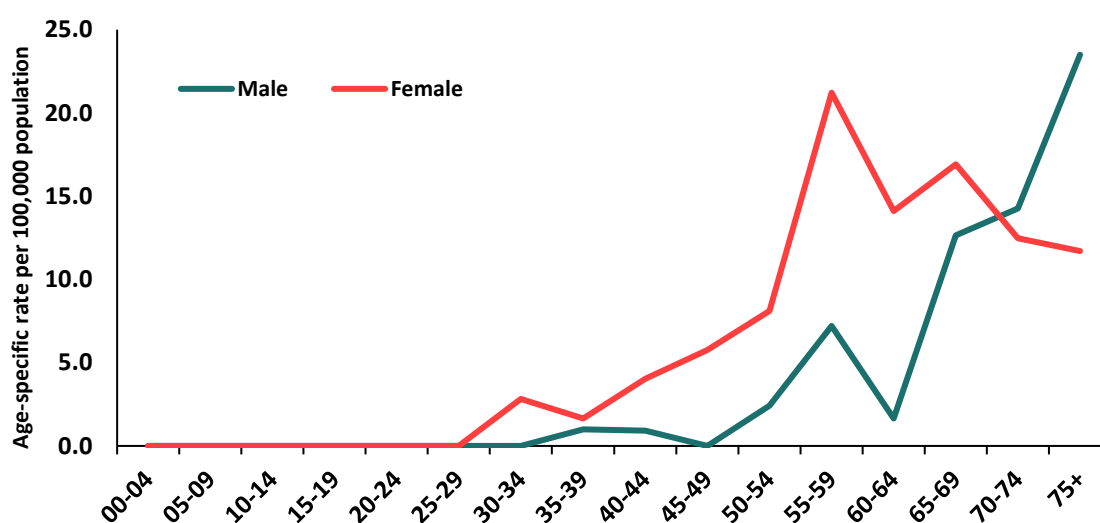


Figure 25: Comparison of Oesophagus Cancer Incidence Rate with Other Indian Registries

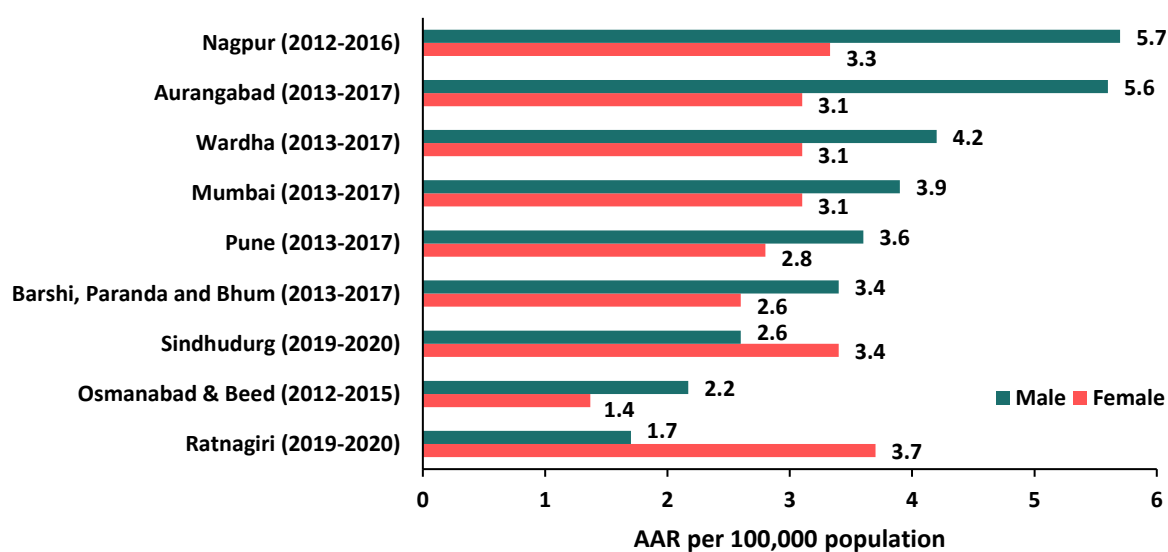


Figure 26: Age-Specific Incidence and Mortality Rate Male All Sites (2019-2020)

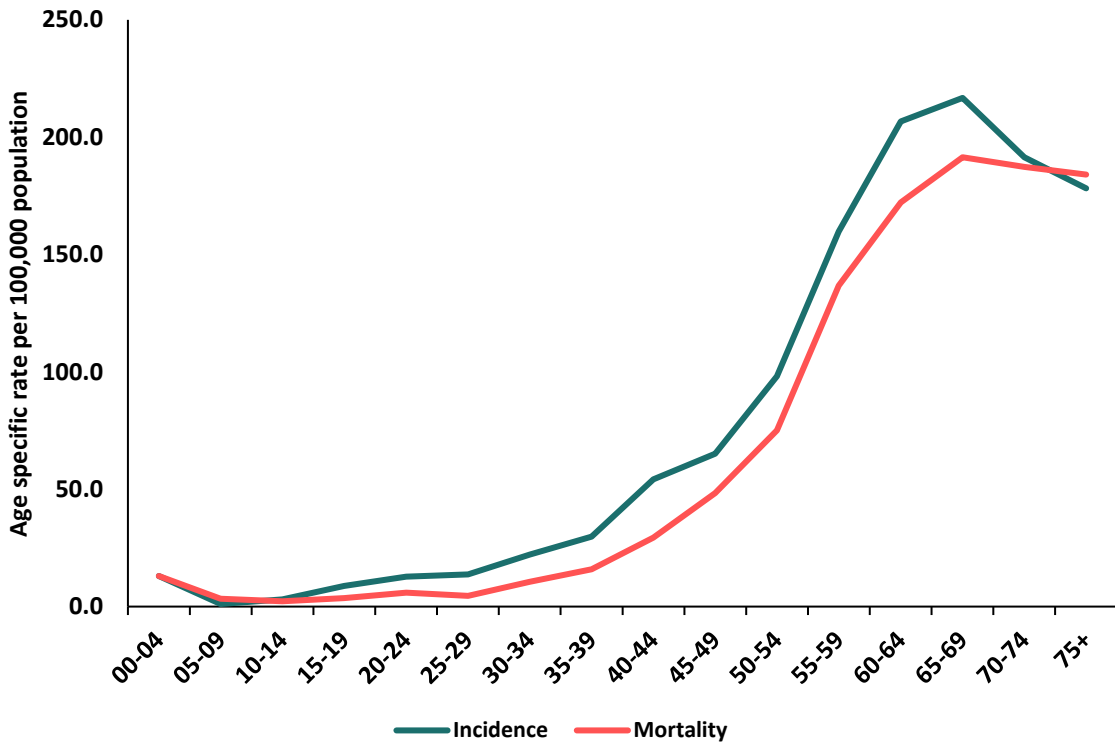
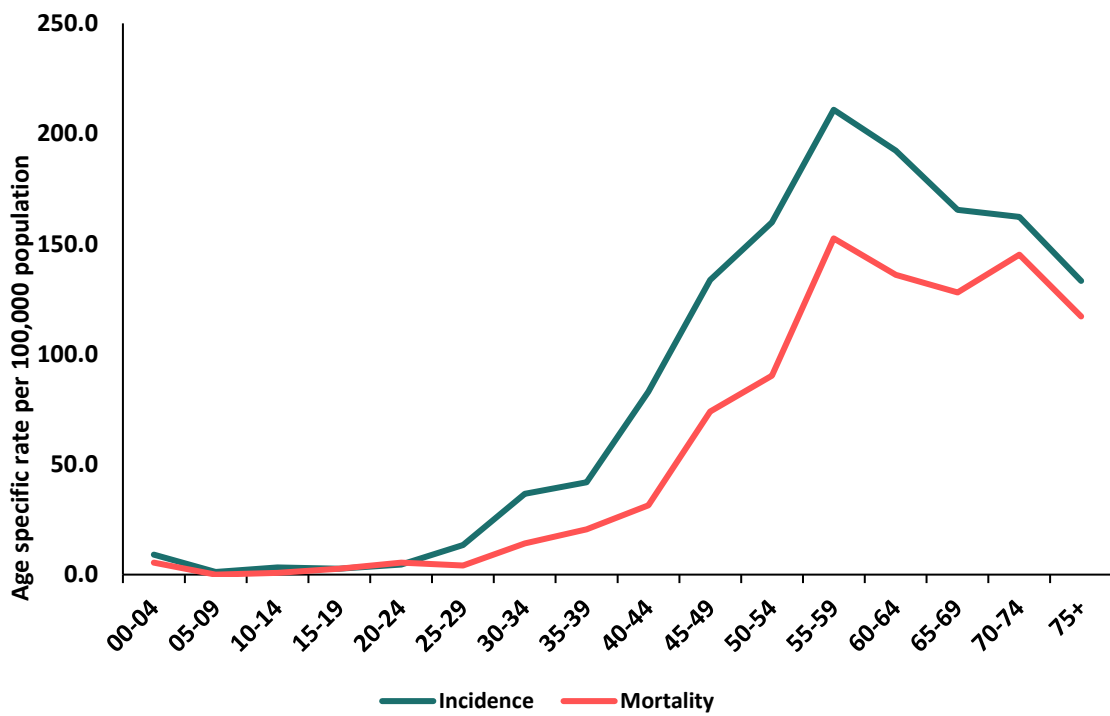


Figure 27: Age-Specific Incidence and Mortality Rate - Female All Sites (2019-2020)



9. Other and Unspecified Sites

The other and unspecified cancer sites refer to the following cancer types:

C26	Other and Ill -Defined Digestive Organ	C77	Secondary and Unspecified Malignant Neoplasm of Lymph Node
C39	Other and Ill-Defined Sites with in Respiratory Systems and Intrathoracic Organ	C78	Secondary Malignant Neoplasm of Respiratory and Digestive Organs
C48	Retro Peritoneum and Peritoneum	C79	Secondary Malignant Neoplasm of Other and Unspecified Sites
C76	Other and Ill-Defined, Secondary and Unspecified sites	C80	Malignant Neoplasm Without Specification of Site
C97	Malignant Neoplasm of Independent (Primary) Multiple sites		

In males, out of 847 cases, 62 (7.3%) cases were of other and unspecified sites. The predominant cases were of C77 - Secondary and Unspecified Malignant Neoplasm of Lymph Node (3.1%), followed by C78 - Secondary Malignant Neoplasm of Respiratory and Digestive Organs (1.3%) and other sites (3.0%).

In females, out of 1,142 cases, 40 (3.5%) cases were of other and unspecified. The predominant cases were of C78 - Secondary Malignant Neoplasm of Respiratory and Digestive Organs (1.4%), followed by C77 - Secondary and Unspecified Malignant Neoplasm of Lymph Node (0.8%) and other sites (1.3%), the details are presented in table 12.

Table 12: Other and Unspecified Cases by Gender

ICD10	Male		Female	
	Number	%	Number	%
C26	-	-	-	-
C39	-	-	-	-
C48	1	0.1	1	0.1
C76	2	0.2	3	0.3
C77	26	3.1	9	0.8
C78	11	1.3	16	1.4
C79	9	1.1	3	0.3
C80	13	1.5	8	0.7
Total	62/847	7.3/100	40/1142	3.5/100

Cancer of Other and Unspecified (C26, C39, C48, C76, C77, C78, C79, C80, C97): 2019-2020

	Male	Female
Number of Cases	62	40
% to Total Cases	7.3	3.5
Crude Incidence Rate per 100,000	4.5	2.7
Age Adjusted Incidence Rate per 100,000	3.6	1.9
Truncated Rate per 100,000	8.2	4.5

Figure 28: Age-Specific Incidence Rate of Other and Unspecified

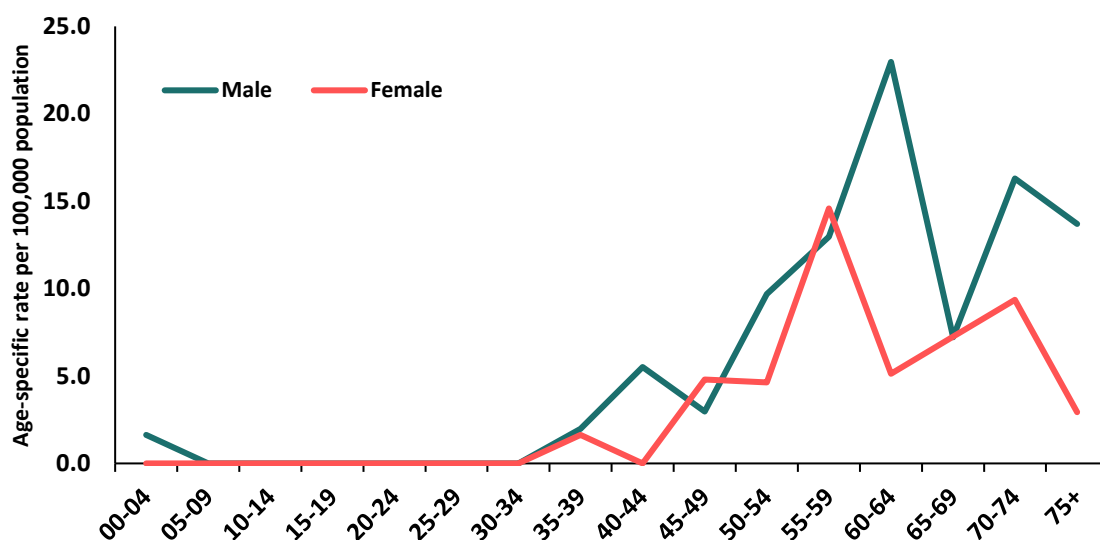
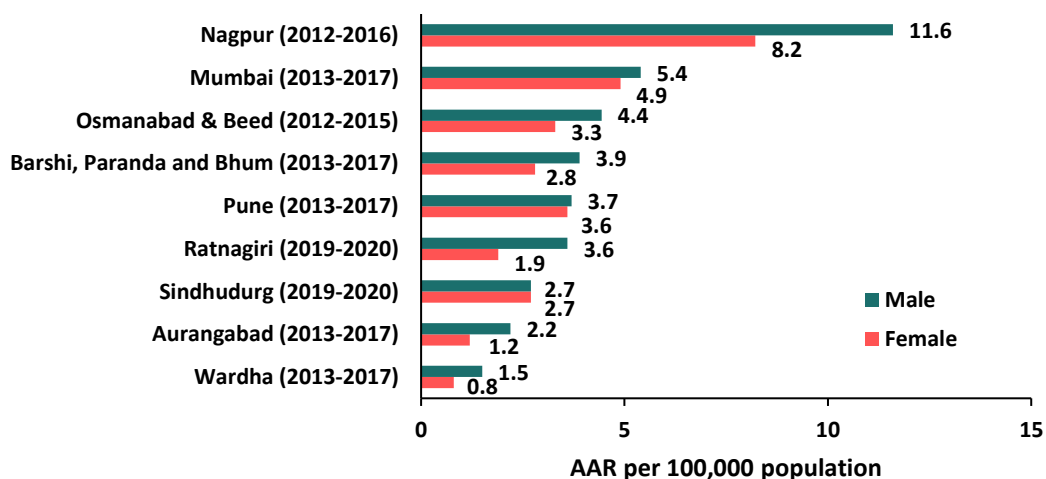


Figure 29: Comparison of Other and Unspecified Cancer Incidence Rate with Other Indian Registries



10. Comparison of Cancer Incidence Rate with Other Indian Registries

The Age-adjusted incidence rate for all cancer sites for the year 2019-2020 was compared with other Indian PBCRs in Figure 30 for males and Figure 31 for females.

Figure 30: Age-Adjusted Incidence Rate of All Cancer Site in Males

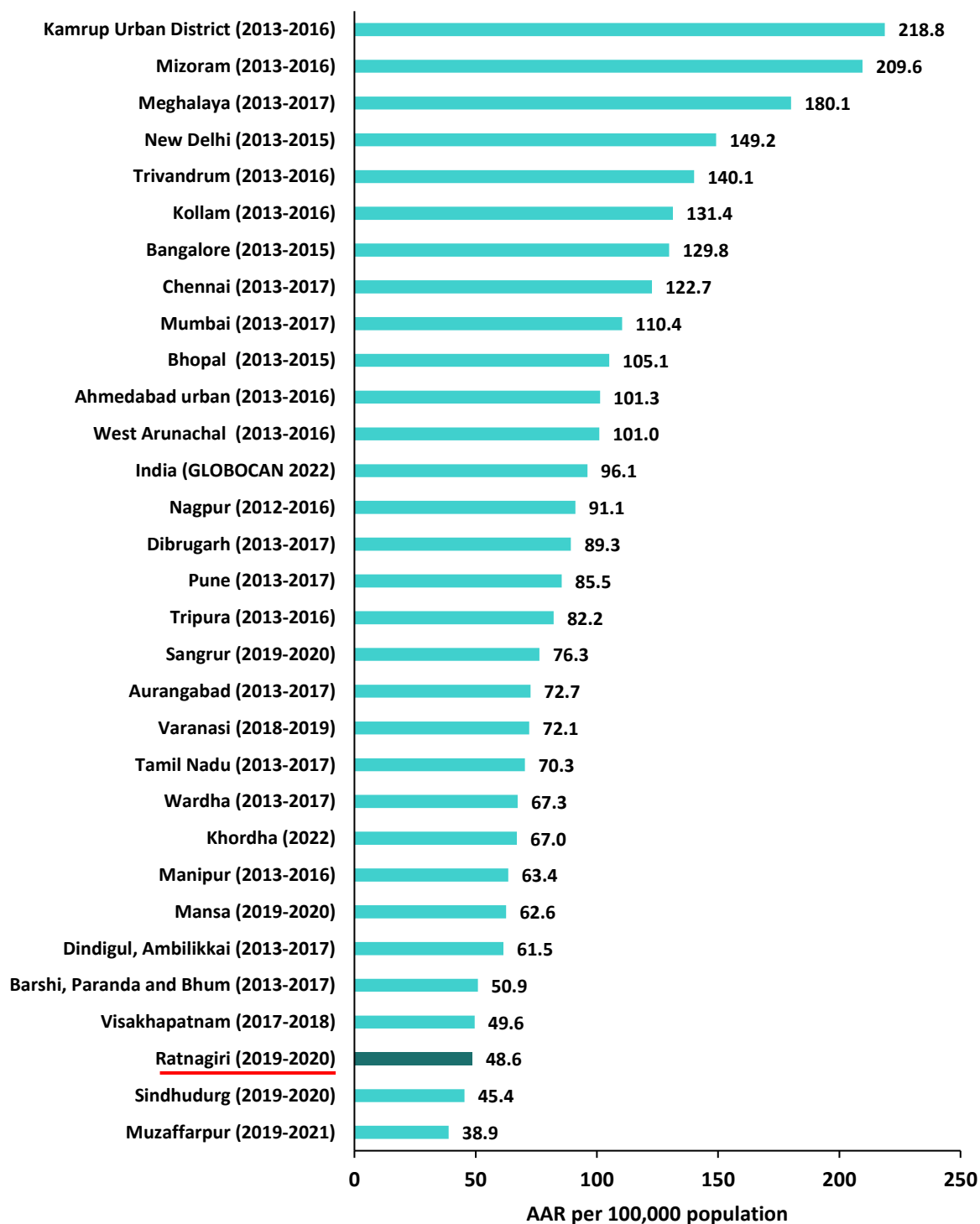
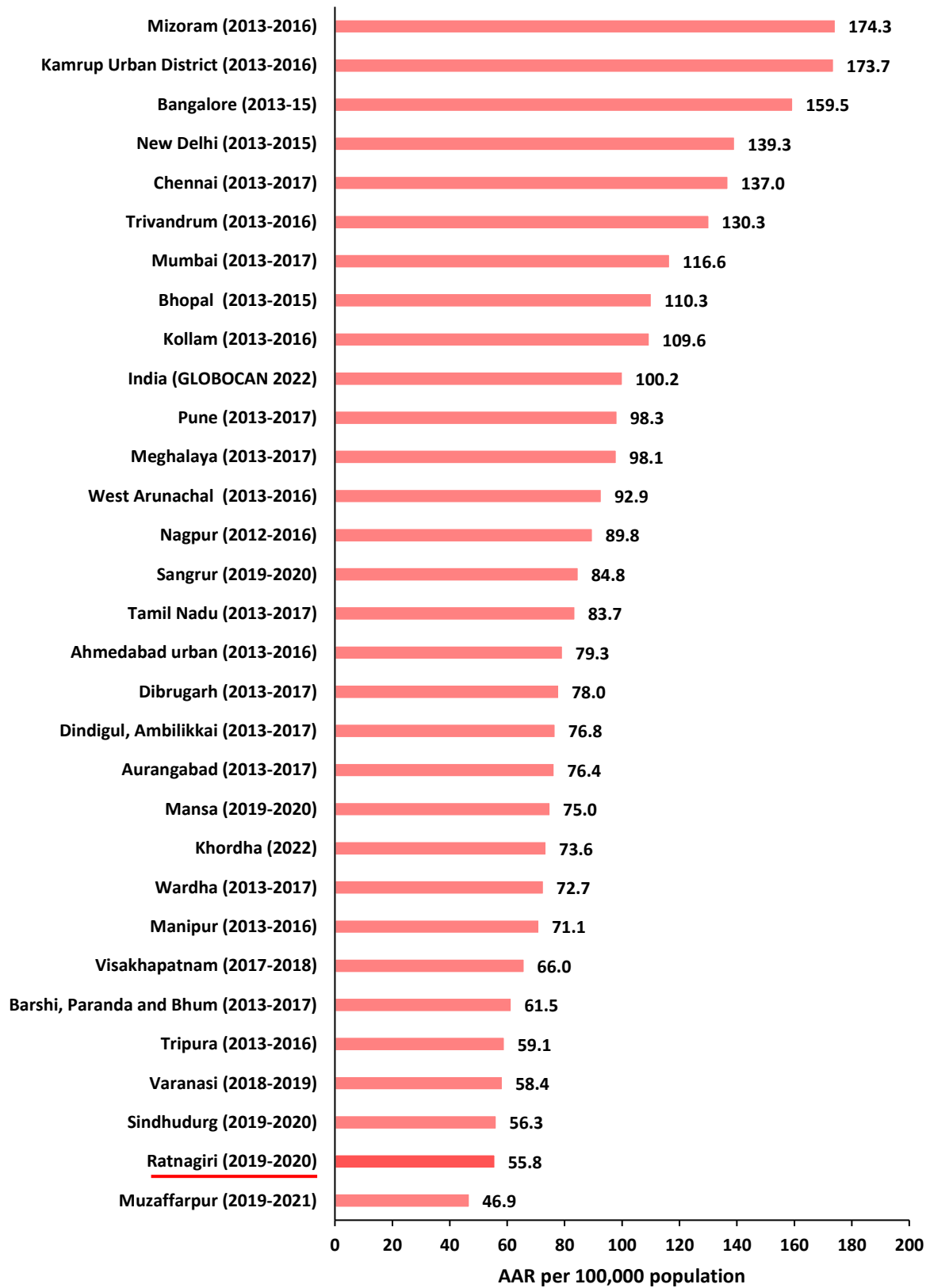


Figure 31: Age-Adjusted Incidence Rate of all Cancer Site in Females



11. Cancer Pattern in Paediatric Age-Group (00-14 years)

Cancer pattern in paediatric age-group in the year 2019-2020, out of 1989 registered cancer cases 23 (1.2%) paediatric cases (00-14 age group) were noted. The age-adjusted incidence for boys is 62.8 per million and 48.4 per million for girls. The microscopic confirmation was 100% in boys and 80% in girls. The paediatric cancer rates are low compared to other registries in India. There is minimal under reporting because consultant from Tata Memorial Hospital, Parel, Mumbai visit BKL Walawalkar Hospital, Dervan once in a month enabling paediatric cancer diagnosis and treatment.

The leading cancer sites in Boys are Myeloid Leukaemia, Adrenal Gland, Non-Hodgkin Lymphoma, Other Male Genital and Liver, in Girls are Brain Nervous System, Other Endocrine, Adrenal Gland, Eye and Lymphoid Leukaemia, the leading cancer sites are mentioned below in Figure 32 and 33.

Figure 32: Leading cancer sites in Boys: 2019-2020

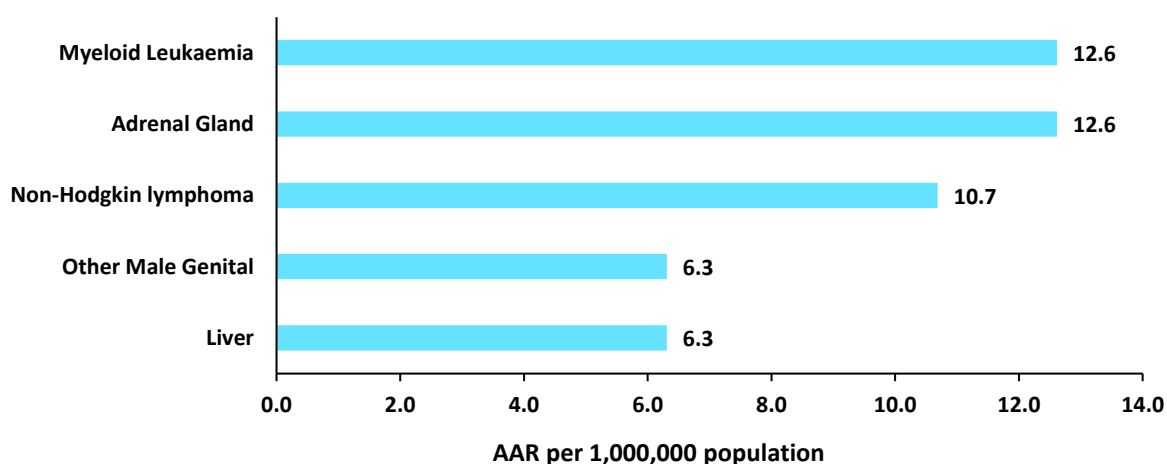
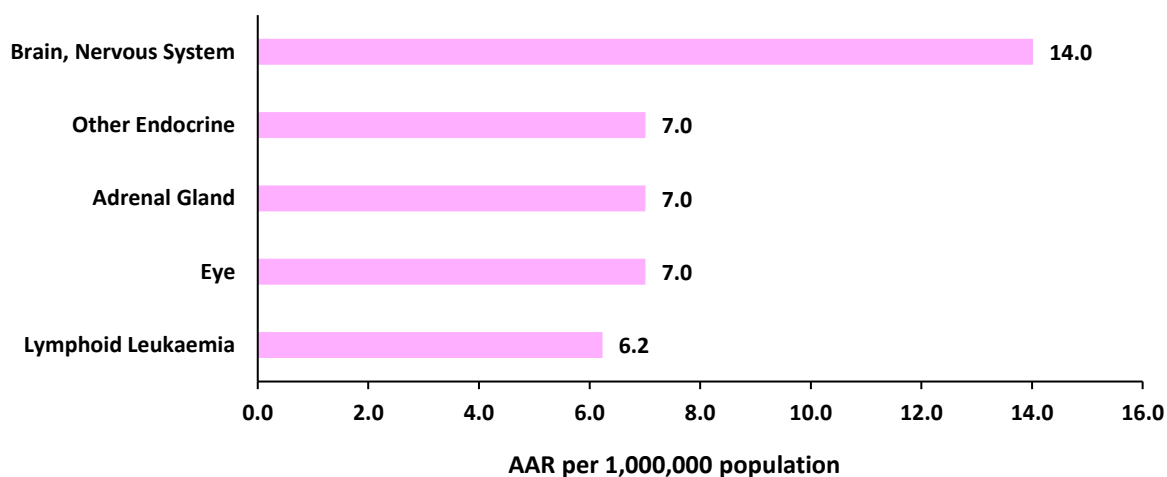


Figure 33: Leading cancer sites in Girls: 2019-2020



International Classification of Childhood Cancer, 3rd edition (ICCC-3) has mentioned the separate coding to know the cancer burden in children according to appropriate diagnostic groups. ICCC-3 having 12 main groups and further these are divided in to subgroups and division of selected subgroups. The age-adjusted incidence rate as per subgroups in boys and girls per million population is mentioned in Table 13. The paediatric cancer burden as per ICCC-3 standard is mentioned separately in Table 38 and 39. (Chapter 18)

Proportion of paediatric cancer cases by 12 main diagnostic group as per ICCC-3 standard is presented in Figure 34.

Figure 34: Proportion of paediatric cancer cases by age-group: Both Sex (Ratnagiri District)

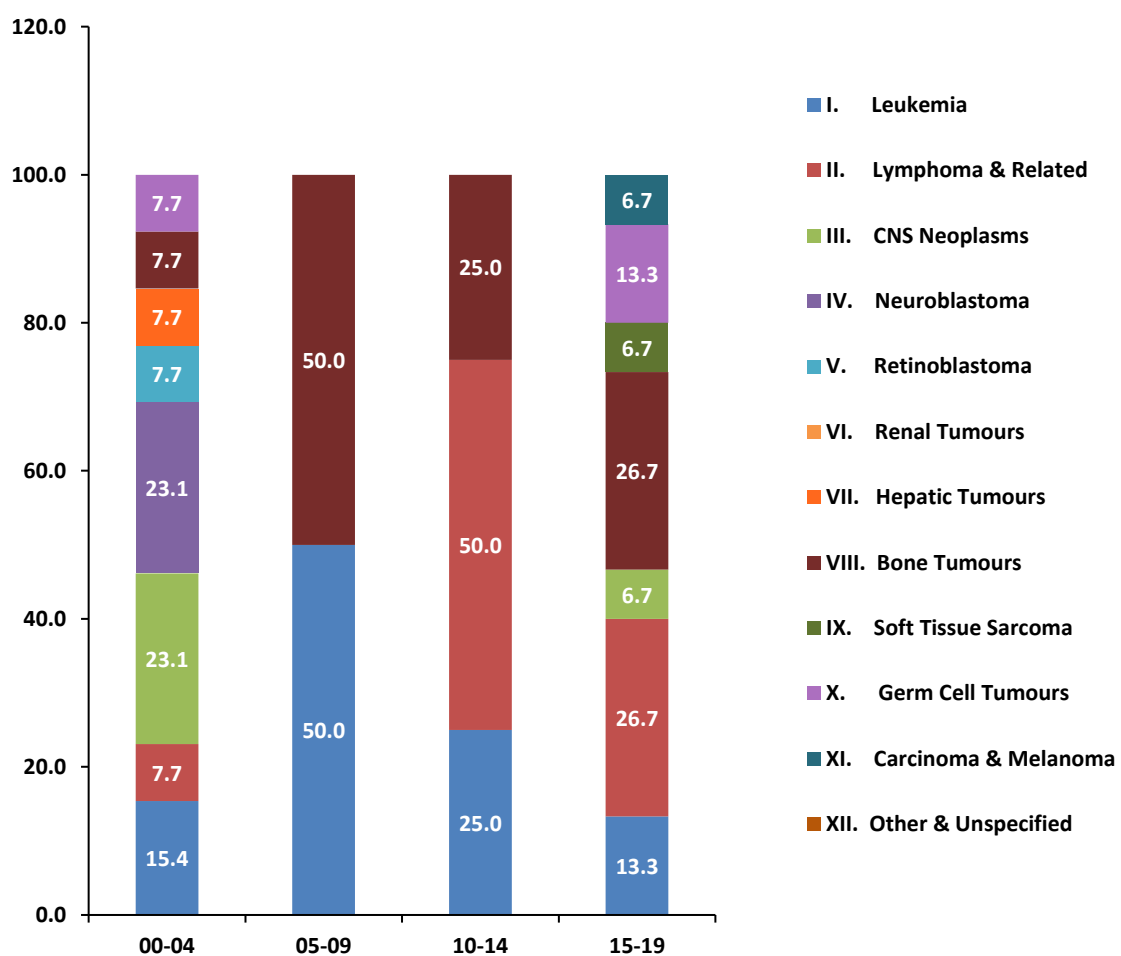


Table 13: Cancer cases distribution as per the International Classification of Childhood Cancer (ICCC) Code Ratnagiri District 2019-2020

ICCC Code	Site	Boys			Girls		
		Number	%	AAR per million	Number	%	AAR per million
1a	Lymphoid	-	-	-	2	20.0	6.2
1b	Acute myeloid	2	15.4	12.6	-	-	-
1e	Unspecified	-	-	-	1	10.0	2.4
2a	Hodgkin	1	7.7	2.2	-	-	-
2b	Non-Hodgkin except BL	2	15.4	4.4	-	-	-
2c	Burkitt (BL)	1	7.7	6.3	-	-	-
2e	Unspecified	-	-	-	1	10.0	2.4
3a	Ependymoma	-	-	-	1	10.0	7.0
3d	Other gliomas	-	-	-	1	10.0	7.0
3e	Other specified	-	-	-	1	10.0	7.0
4a	(Ganglio) Neuroblastoma	2	15.4	12.6	1	10.0	7.0
5	Retinoblastoma	-	-	-	1	10.0	7.0
7a	Hepatoblastoma	1	7.7	6.3	-	-	-
8c	Ewing & Related	2	15.4	5.8	1	10.0	2.4
8e	Unspecified	1	7.7	6.3	-	-	-
10b	Other extragonadal	1	7.7	6.3	-	-	-
All Sites		13	100.0	62.8	10	100.0	48.4

*AAR per 1,000,000 population

12. Tobacco-Related Cancer

The consumption of tobacco is a major risk factor for cancers. The cancers of Lip (C00), Tongue (C01-C02), Mouth (C03-C06), Pharynx (C10, C12-C14), Oesophagus (C15), Larynx (C32), Lung (C33-C34) and Urinary Bladder (C67) are related to tobacco use.

As per the Ratnagiri registry data, the tobacco-related cancer burden is 52.1% in Male (1 out of 2 cancer cases is tobacco-related) while it is 27.1% in Females (1 out of 4 cancer cases is tobacco-related).

The leading site tobacco-related cancer are Mouth, Tongue, Lung, Oesophagus and Hypopharynx in Males and Mouth, Oesophagus, Tongue, Lung, and Hypopharynx in Female.

In the Male out of 441; 300 (68%) are farmers. in the Female out of 309; 272 (88%) are housewives. For education level of the population, 41.3% males have primary education and while 38.5% females have primary education. Income of around 82.8% population was less than Rs. 10,000/- per month (Male: 81.4% and Female: 84.8%).

Table 14: Tobacco-Related Cancer (TRCs) in Male 2019-2020

ICD10	Site	Number	%	CR	AAR	TR
C00	Lip	14	1.7	1.0	0.8	1.9
C01-C02	Tongue	79	9.3	5.7	4.6	12.1
C03-C06	Mouth	181	21.4	13.2	10.2	23.2
C10	Other Oropharynx	10	1.2	0.7	0.6	1.2
C12-C13	Hypopharynx	30	3.5	2.2	1.6	3.2
C14	Pharynx Unspecified	3	0.4	0.2	0.1	0.0
C15	Oesophagus	36	4.3	2.6	1.7	1.9
C32	Larynx	25	3.0	1.8	1.4	2.8
C33-C34	Trachea, bronchus and lung	45	5.3	3.3	2.5	4.7
C67	Bladder	18	2.1	1.3	1.0	1.8
C00-C06, C10, C12-C15, C32-C34 & C67	Tobacco-related cancer	441	52.1	32.1	24.5	52.8

Table 15: Tobacco-Related Cancer (TRCs) in Female 2019-2020

ICD10	Site	Number	%	CR	AAR	TR
C00	Lip	7	0.6	0.5	0.2	0.2
C01-C02	Tongue	39	3.4	2.6	1.8	3.8
C03-C06	Mouth	110	9.6	7.4	5.0	11.3
C10	Other Oropharynx	3	0.3	0.2	0.1	0.4
C12-C13	Hypopharynx	21	1.8	1.4	1.0	2.0
C14	Pharynx Unspecified	3	0.3	0.2	0.1	0.4
C15	Oesophagus	80	7.0	5.4	3.7	8.1
C32	Larynx	9	0.8	0.6	0.5	1.4
C33-C34	Trachea, bronchus and lung	35	3.1	2.3	1.7	4.8
C67	Bladder	2	0.2	0.1	0.1	0.0
C00-C06, C10, C12-C15, C32-C34 & C67	Tobacco-related cancer	309	27.1	20.7	14.2	32.2

Table 16: Tobacco-Related Cancer cases by Gender and Occupation

Occupation	Male		Female		Total	
	Number	%	Number	%	Number	%
Professional	6	1.4	-	-	6	0.8
Semi-Professional	7	1.6	-	-	7	0.9
Clerical/Shop owner	1	0.2	-	-	1	0.1
Farmer	300	68.0	28	9.1	328	43.7
Skilled Worker	18	4.1	-	-	18	2.4
Semi-Skilled Worker	19	4.3	2	0.6	21	2.8
Unskilled Worker	17	3.9	1	0.3	18	2.4
Unemployed	16	3.6	-	-	16	2.1
Student	1	0.2	-	-	1	0.1
Housewife	-	-	272	88.0	272	36.3
Govt Employee	11	2.5	-	-	11	1.5
Pvt Employee	37	8.4	1	0.3	38	5.1
Other	6	1.4	2	0.6	8	1.1
Unknown	2	0.5	3	1.0	5	0.7
Total	441	100.0	309	100.0	750	100.0

Table 17: Tobacco-Related Cancer cases by Gender and Education

Education	Male		Female		Total	
	Number	%	Number	%	Number	%
Illiterate	58	13.2	88	28.5	146	19.5
Literate	63	14.3	59	19.1	122	16.3
Primary (1 to 7 std)	182	41.3	119	38.5	301	40.1
Secondary (8 to 10 std)	104	23.6	33	10.7	137	18.3
Technical after 10th	6	1.4	1	0.3	7	0.9
College	14	3.2	2	0.6	16	2.1
Post graduate	9	2.0	1	0.3	10	1.3
Unknown/No Information	5	1.1	6	1.9	11	1.5
Total	441	100.0	309	100.0	750	100.0

Table 18: Tobacco-Related Cancer cases by Gender and Religion

Religion	Male		Female		Total	
	Number	%	Number	%	Number	%
Hindu	377	85.5	265	85.8	642	85.6
Muslim	44	10.0	25	8.1	69	9.2
Christian	1	0.2	-	-	1	0.1
Neo-Buddhist	19	4.3	19	6.1	38	5.1
Total	441	100.0	309	100.0	750	100.0

Table 19: Tobacco-Related Cancer cases by Gender and Income

Income	Male		Female		Total	
	Number	%	Number	%	Number	%
Less than Rs. 5000/-	166	37.6	125	40.5	291	38.8
Rs. 5000/- to 10000/-	193	43.8	137	44.3	330	44.0
Rs. 10000/- to 15000/-	54	12.2	34	11.0	88	11.7
Rs. 15000/- to 20000/-	12	2.7	7	2.3	19	2.5
More than Rs. 20000/-	13	2.9	1	0.3	14	1.9
Unknown/No Information	3	0.7	5	1.6	8	1.1
Total	441	100.0	309	100.0	750	100.0

13. Cancer Burden as per Anatomical System

For Males, the reported majority of cancer cases involved the sites from Head and Neck (42.3%) followed by the digestive tract organ (22.3%) with highest AAR 20.2 per 100,000 and AAR 10.3 per 100,000 population respectively and further Respiratory and Intra Thoracic Organ (8.7%), Lymphoid and Haematopoietic tissue (6.5%), Male Genital Organ (6.4%)

For Females, the reported majority of cancer cases involved the sites from Breast (29.2%) followed by the Female Genital Organs (19.3%) and Head and Neck (18.8%) with highest AAR 16.5, 10.5 and 9.8 per 100,000 population respectively and further, Digestive Organ (16.1%), Lymphoid and Haematopoietic tissue (5.0%) and Respiratory and Intra Thoracic Organ (3.9%)
The details are presented in figure 35 and table 20 and 21.

Figure 35: Cancer rates by different Anatomical Sites in Ratnagiri District 2019-2020

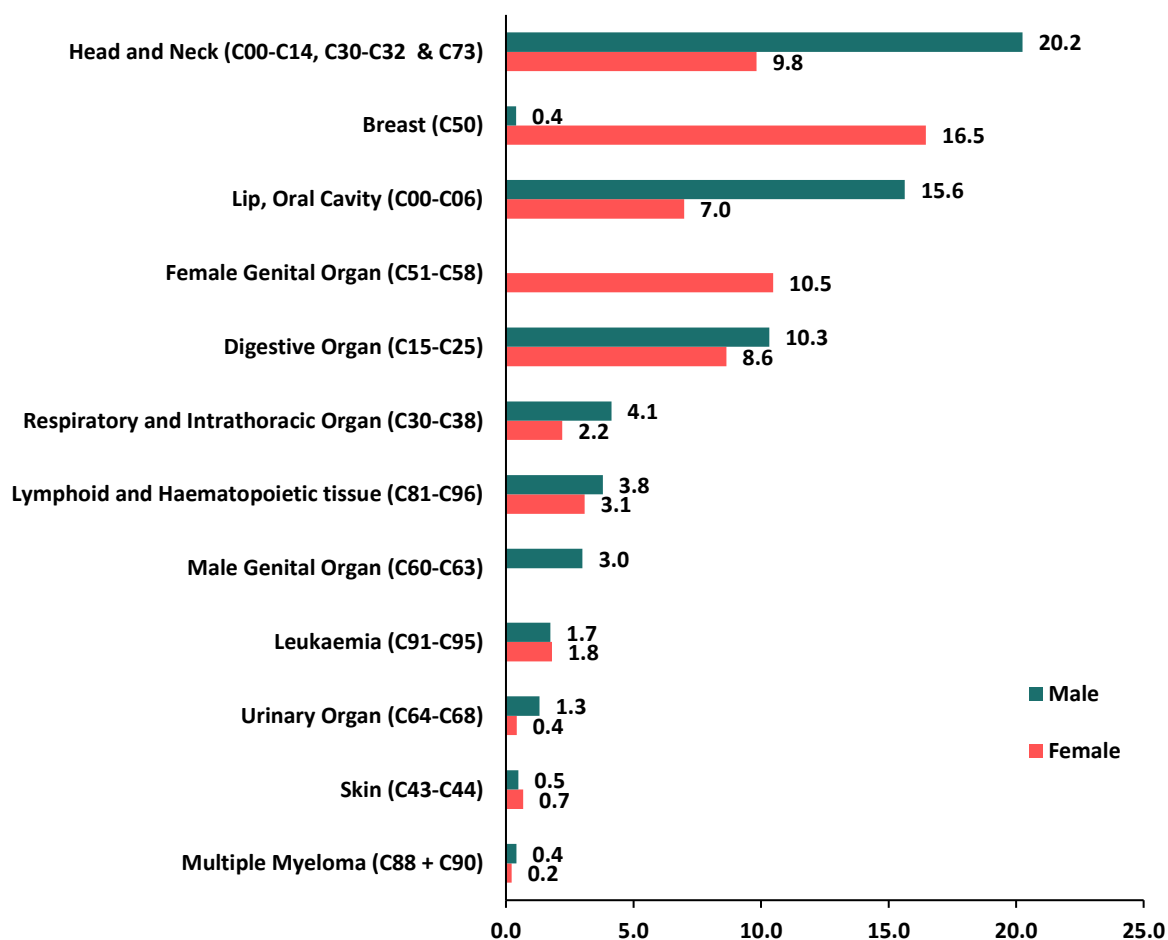


Table 20: Cancer Burden as per the various Anatomical System in Male :2019-2020

ICD10	Site	Total	%	CR	AAR	TR	Risk 1 in
C00-C14, C30-C32& C73	Head and Neck	358	42.3	26.0	20.2	46.2	43
C00-C06	Lip, Oral Cavity	274	32.3	19.9	15.6	37.2	56
C15-C25	Digestive Organ	189	22.3	13.7	10.3	19.1	80
C30-C38	Respiratory and Intrathoracic Organ	74	8.7	5.4	4.1	7.9	182
C81-C96	Lymphoid and Haematopoietic tissue	55	6.5	4.0	3.8	3.8	303
C60-C63	Male Genital Organ	54	6.4	3.9	3.0	2.8	333
C91-C95	Leukaemia	24	2.8	1.7	1.7	1.3	667
C64-C68	Urinary Organ	24	2.8	1.7	1.3	2.7	625
C43-C44	Skin	10	1.2	0.7	0.5	0.4	2000
C50	Breast	8	0.9	0.6	0.4	0.6	1667
C88 + C90	Multiple Myeloma	7	0.8	0.5	0.4	1.2	2000

Table 21: Cancer Burden as per the various Anatomical System in Female :2019-2020

ICD10	Site	Total	%	CR	AAR	TR	Risk 1 in
C50	Breast	334	29.2	22.3	16.5	40.5	58
C51-C58	Female Genital Organ	220	19.3	14.7	10.5	24.5	85
C00-C14, C30-C32 & C73	Head and Neck	215	18.8	14.4	9.8	22.1	86
C15-C25	Digestive Organ	184	16.1	12.3	8.6	19.3	102
C00-C06	Lip, Oral Cavity	156	13.7	10.4	7.0	15.2	118
C81-C96	Lymphoid and Haematopoietic tissue	57	5.0	3.8	3.1	6.4	323
C30-C38	Respiratory and Intrathoracic Organ	44	3.9	2.9	2.2	6.2	400
C91-C95	Leukaemia	32	2.8	2.1	1.8	3.3	588
C43-C44	Skin	15	1.3	1.0	0.7	1.5	1111
C64-C68	Urinary Organ	9	0.8	0.6	0.4	1.0	2000
C88 + C90	Multiple Myeloma	4	0.4	0.3	0.2	0.7	5000

14. Social and Demographic Information

The Ratnagiri district cancer registry staff interacted with cancer patients or their relatives and collected social and demographic information. Based on the information collected, in Ratnagiri district, cancer cases were highest among the Hindu community (81.8%). By education status, cases with primary education (1st to 7th standard) made a major chunk (37.6%) of the 1989 cases. Furthermore, in terms of occupation, cancer cases were more commonly found among Housewives and Farmer respectively 50.4% and 30.3%. The number of cancer cases was found to be more in the population with income Rs. 5000/- to 10000/- per month. The details of the same are presented in table 22 to 25.

Table 22: Cancer cases by Education and Gender

Education	Male		Female		Total	
	Number	%	Number	%	Number	%
Illiterate	102	12.0	235	20.6	337	16.9
Literate	118	13.9	176	15.4	294	14.8
Primary (1 to 7 std)	327	38.6	420	36.8	747	37.6
Secondary (8 to 10 std)	207	24.4	219	19.2	426	21.4
Technical after 10th	17	2.0	4	0.4	21	1.1
College	43	5.1	51	4.5	94	4.7
Post graduate	12	1.4	9	0.8	21	1.1
Not applicable for children	8	0.9	5	0.4	13	0.7
Unknown/No Information	13	1.5	23	2.0	36	1.8
Total	847	100.0	1142	100.0	1989	100.0

Table 23: Cancer cases by Religion and Gender

Religion	Male		Female		Total	
	Number	%	Number	%	Number	%
Hindu	705	83.2	922	80.7	1627	81.8
Muslim	100	11.8	143	12.5	243	12.2
Christian	1	0.1	1	0.1	2	0.1
Neo-Buddhist	41	4.8	76	6.7	117	5.9
Total	847	100.0	1142	100.0	1989	100.0

Table 24: Cancer cases by Income and Gender

Income	Male		Female		Total	
	Number	%	Number	%	Number	%
Less than Rs. 5000/-	294	34.7	441	38.6	735	37.0
Rs. 5000/- to 10000/-	355	41.9	464	40.6	819	41.2
Rs. 10000/- to 15000/-	121	14.3	137	12.0	258	13.0
Rs. 15000/- to 20000/-	35	4.1	43	3.8	78	3.9
More than Rs. 20000/-	32	3.8	34	3.0	66	3.3
Unknown/No Information	10	1.2	23	2.0	33	1.7
Total	847	100.0	1142	100.0	1989	100.0

Table 25: Cancer cases by Occupation and Gender

Occupation	Male		Female		Total	
	Number	%	Number	%	Number	%
Professional	8	0.9	3	0.3	11	0.6
Semi-Professional	12	1.4	1	0.1	13	0.7
Clerical/Shop owner	11	1.3	-	-	11	0.6
Farmer	525	62.0	78	6.8	603	30.3
Skilled Worker	43	5.1	3	0.3	46	2.3
Semi-Skilled Worker	38	4.5	2	0.2	40	2.0
Unskilled Worker	31	3.7	3	0.3	34	1.7
Unemployed	40	4.7	7	0.6	47	2.4
Student	20	2.4	11	1.0	31	1.6
Housewife	-	-	1002	87.7	1002	50.4
Govt Employee	29	3.4	12	1.1	41	2.1
Pvt Employee	64	7.6	7	0.6	71	3.6
Other	14	1.7	4	0.4	18	0.9
Not applicable to children	8	0.9	5	0.4	13	0.7
Unknown	4	0.5	4	0.4	8	0.4
Total	847	100.0	1142	100.0	1989	100.0

15. Challenges Faced by Cancer Registry

The registry faces several challenges in data collection:

- ✘ The rural landscape of the Ratnagiri district makes it difficult to cover as households are scattered. Address verification by personnel visit takes lot of time as the rural population is scattered at faraway distances and non-availability of transportation in most of the villages.
- ✘ Patients travel to various places outside the geographical area of the registry for diagnosis and treatment due to the lack of infrastructure/treatment facilities. Covering each of these centres is a very big challenge.
- ✘ Exception from few major hospitals/sources, most of the private hospitals or practitioners are reluctant to share the data related to cancer patients. In most of private hospitals, clinics the addresses of patients are not kept in their records. It becomes very difficult to identify their residential address and contact numbers.
- ✘ Due to the poor maintenance of medical records at various sources, home visits need to be done for collection of the missing data and to interview the patients/family members. In most of the mortality cases, families don't keep the records after patient death and are hesitant to disclose the information about the patient's disease.
- ✘ Distance from appropriate health services and lower socioeconomic classes add more to it. This leads to under reporting of cancer.
- ✘ Active follow-up visits on a regular basis till the patient is alive are difficult due to large geographical catchment area and vast population. Telephonic follow up is also a challenge at times due to non-availability of mobile network/internet connectivity in rural areas.
- ✘ During the COVID-19 pandemic, the hospitals/nursing homes barely allowed the staff to visit them for data collection. At the same time, they could not spare the time for sharing the data electronically. This has definitely caused a delay in reporting of the cases.
- ✘ Difficult for the registry staff to collect information of migrated patients, as patient travel to nearby districts for diagnostic and treatment purpose.

16. Description of Statistical Terms

Incidence: Cancer incidence noted all new cancer cases diagnosed in a defined population during a given period of time are defined as a Incident case. For this report all, new cancer cases diagnosed from January 1, 2019 to December 31, 2020 in Ratnagiri district have been included.

Mortality: Cancer mortality noted as the number of all cancer deaths occurring in a defined population, in a defined geographic area, during a particular years per 100,000 population. All cancer deaths between January 1, 2019 to December 31, 2020 in Ratnagiri district have been included.

Rates: Rates for cancer are always expressed per 100,000 populations.

Crude Incidence Rate (CIR): The crude incidence is the rate at which new cases occur in a population during a specific period.

$$\text{CIR} = \frac{\text{Number of new cancer cases observed in the period 2019-2020} * 100,000}{\text{Estimated population of the same year}}$$

This rate is also called the crude rate because it relates to each population as a whole and is influenced by the age structure of each population. Since it is 2-year data the CIR is divided by 2.

Age- Specific Rate (ASR): This refers to the rate obtained by the division of the total number of cancer cases by the corresponding estimated population in that age group and gender/site/geographic area/period and multiplying by 100,000.

Age- Adjusted or Age Standardized Rate (AAR): Age adjusted is a statistical method that corrects for the changing age distribution of the population and allows comparisons to be made in the adjusted rates between different population sub- groups over time.

Truncated Rates: This is similar to the age-adjusted rate except that it is calculated to the truncated age group 35 – 64 years of age.

17. Standard Registry Tables

Table 26: Number of Incidence Cancer by Five Year Age Group and Site (ICD 10) 2019-2020- Males

Ratnagiri District % = Relative Proportion of Cancer of All Sites

ICD 10	Site	00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Total	%
C00	Lip	-	-	-	-	-	-	-	1	4	2	2	1	3	1	-	-	14	1.7
C01-C02	Tongue	-	-	-	-	-	1	1	5	9	14	7	15	13	9	4	1	79	9.3
C03-C06	Mouth	-	-	-	-	-	2	5	7	20	23	18	24	28	24	15	15	181	21.4
C07-C08	Salivary Gland	-	-	-	-	1	-	1	1	-	1	-	-	1	-	-	-	5	0.6
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	2	1	2	1	-	5	0.6
C10	Oth. Oropharynx	-	-	-	-	-	-	-	-	-	-	2	1	3	1	2	1	10	1.2
C11	Nasopharynx	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	0.1
C12-C13	Hypopharynx	-	-	-	-	-	-	-	-	-	2	3	5	6	3	2	9	30	3.5
C14	Pharynx Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	3	0.4
C15	Oesophagus	-	-	-	-	-	-	-	1	1	-	2	5	1	7	7	12	36	4.3
C16	Stomach	-	-	-	-	-	1	-	3	2	3	5	3	11	3	7	5	43	5.1
C17	Small Intestine	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.1
C18	Colon	-	-	-	-	-	-	1	-	1	-	4	6	5	4	2	1	24	2.8
C19-C20	Rectum	-	-	-	1	1	-	-	2	2	1	5	4	7	8	6	3	40	4.7
C21	Anus & Anal Canal	-	-	-	-	-	-	-	-	1	-	-	-	1	1	1	-	4	0.5
C22	Liver	1	-	-	-	1	-	-	-	1	-	1	4	1	3	2	3	17	2.0
C23-C24	Gallbladder etc.	-	-	-	-	-	-	-	-	1	-	1	2	-	1	-	1	6	0.7
C25	Pancreas	-	-	-	-	-	-	-	1	-	2	2	3	2	2	4	2	18	2.1
C30-C31	Nose, Sinuses etc.	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.1
C32	Larynx	-	-	-	-	-	-	-	-	-	1	2	5	6	4	4	3	25	3.0
C33-C34	Trachea, bronchus and lung	-	-	-	-	-	-	1	2	1	2	6	6	7	12	6	2	45	5.3
C37-C38	Other Thoracic Organs	-	-	-	-	-	1	-	-	-	-	-	1	-	1	-	-	3	0.4
C40-C41	Bone	-	1	1	3	-	-	-	-	1	-	-	-	-	2	-	-	8	0.9
C43	Melanoma of Skin	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	0.2
C44	Other Skin	-	-	-	-	-	-	1	-	-	-	-	1	1	-	2	3	8	0.9
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	2	0.2
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	Conn. & Soft Tissue	-	-	-	1	1	1	-	-	2	1	1	-	1	1	-	-	9	1.1
C50	Breast	-	-	-	-	-	-	-	-	1	1	-	-	1	3	1	1	8	0.9
C60	Penis	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	4	0.5
C61	Prostate	-	-	-	-	-	-	-	-	-	-	2	2	7	6	8	13	38	4.5
C62	Testis	-	-	-	-	1	2	4	2	-	1	-	-	-	1	-	-	11	1.3
C63	Other Male Genital	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.1
C64	Kidney etc.	-	-	-	-	-	-	-	-	2	1	-	2	-	1	-	-	6	0.7
C65	Renal Pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Urinary Bladder	-	-	-	-	-	-	-	1	1	1	2	1	3	5	2	2	18	2.1
C68	Unspecified Urinary Organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C70-C72	Brain, Nervous System	-	-	-	1	2	-	1	-	1	1	3	5	-	-	2	-	16	1.9
C73	Thyroid	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	1	4	0.5
C74	Adrenal Gland	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	0.4
C75	Other Endocrine	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	0.1
C81	Hodgkins Disease	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	3	0.4
C82-C86&C96	Non-Hodgkin lymphoma	1	-	2	4	1	1	-	-	2	2	1	1	1	2	2	1	21	2.5
C88	Malig Imn.Prol D	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.1
C90	Multiple Myeloma	-	-	-	-	-	-	-	1	-	1	2	-	1	-	1	-	6	0.7
C91	Lymphoid Leukaemia	-	-	-	1	1	1	1	-	-	-	-	-	-	1	-	-	5	0.6
C92-C94	Myeloid Leukaemia	2	-	-	1	2	-	2	1	-	-	1	2	-	2	-	-	13	1.5
C95	Leukaemia Unspecified	-	-	-	-	-	-	-	-	3	-	-	-	-	-	2	1	6	0.7
Other and Unspecified*		1	-	-	-	-	-	-	2	6	3	8	9	14	4	8	7	62	7.3
All Sites		8	1	4	12	13	12	19	30	59	66	81	111	126	120	94	91	847	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

Ratnagiri District PBCR Report 2019-2020

Table 27: Number of Incidence Cancer by Five Year Age Group and Site (ICD 10) 2019-2020- Females
Ratnagiri District % = Relative Proportion of Cancer of All Sites

ICD 10	Site	00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Total	%
C00	Lip	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	3	7	0.6
C01-C02	Tongue	-	-	-	-	-	1	-	2	4	2	8	6	4	9	3	39	3.4	
C03-C06	Mouth	-	-	-	-	-	-	1	6	9	10	9	15	17	20	12	11	110	9.6
C07-C08	Salivary Gland	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	0.1
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	Oth. Oropharynx	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	3	0.3
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.1
C12-C13	Hypopharynx	-	-	-	-	-	-	1	-	4	2	2	3	1	3	3	2	21	1.8
C14	Pharynx Unspecified	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	3	0.3
C15	Oesophagus	-	-	-	-	-	-	3	2	5	6	7	16	11	14	8	8	80	7.0
C16	Stomach	-	-	-	-	-	-	2	2	1	2	3	2	1	4	1	4	22	1.9
C17	Small Intestine	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2	0.2
C18	Colon	-	-	-	-	-	-	-	1	2	3	3	3	5	2	2	-	21	1.8
C19-C20	Rectum	-	-	-	-	1	2	2	1	3	4	1	1	5	1	4	4	29	2.5
C21	Anus & Anal Canal	-	-	-	-	-	-	-	-	-	1	-	1	1	2	1	1	7	0.6
C22	Liver	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	1	5	0.4
C23-C24	Gallbladder etc.	-	-	-	-	-	-	-	1	1	2	1	2	-	-	1	-	8	0.7
C25	Pancreas	-	-	-	-	-	-	-	-	1	2	-	-	3	2	1	1	10	0.9
C30-C31	Nose, Sinuses etc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C32	Larynx	-	-	-	-	-	-	-	-	2	-	3	1	2	1	-	-	9	0.8
C33-C34	Trachea, bronchus and lung	-	-	-	-	-	-	-	1	-	5	9	8	4	3	3	2	35	3.1
C37-C38	Other Thoracic Organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	Bone	-	-	1	1	1	-	-	-	-	-	1	-	1	-	-	-	5	0.4
C43	Melanoma of Skin	-	-	-	-	-	-	-	-	-	-	1	-	1	2	-	-	4	0.4
C44	Other Skin	-	-	-	-	-	-	-	1	-	1	-	1	4	-	3	1	11	1.0
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	Conn. & Soft Tissue	-	-	-	-	-	-	1	1	-	1	1	3	1	1	-	-	9	0.8
C50	Breast	-	-	-	-	1	3	19	21	39	54	45	34	41	36	17	24	334	29.2
C51	Vulva	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	3	0.3
C52	Vagina	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	3	0.3
C53	Cervix Uteri	-	-	-	-	-	-	1	2	9	7	12	10	13	15	12	12	93	8.1
C54	Corpus Uteri	-	-	-	-	-	-	-	-	2	1	4	5	7	5	2	1	27	2.4
C55	Uterus Unspecified	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	2	0.2
C56	Ovary	-	-	-	2	1	2	2	4	16	9	12	16	10	6	5	5	90	7.9
C57	Other Female Genital	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	2	0.2
C58	Placenta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney etc.	-	-	-	-	-	-	-	1	1	2	1	-	1	-	1	-	7	0.6
C65	Renal Pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Urinary Bladder	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	0.2
C68	Unspecified Urinary Organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	3	0.3
C70-C72	Brain, Nervous System	2	-	-	-	-	1	1	1	-	2	1	3	-	-	1	-	12	1.1
C73	Thyroid	-	-	-	-	-	-	2	1	-	5	4	2	2	1	3	1	21	1.8
C74	Adrenal Gland	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	3	0.3
C75	Other Endocrine	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.1
C81	Hodgkins Disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C82-C86&C96	Non-Hodgkin lymphoma	-	-	1	-	-	1	-	3	2	4	2	1	2	2	2	1	21	1.8
C88	Malig Imn.Prol D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple Myeloma	-	-	-	-	-	-	-	-	-	-	2	1	1	-	-	-	4	0.4
C91	Lymphoid Leukaemia	-	1	1	-	-	-	-	-	2	-	-	-	1	-	1	-	6	0.5
C92-C94	Myeloid Leukaemia	-	-	-	-	-	1	2	-	2	1	2	2	1	-	-	-	11	1.0
C95	Leukaemia Unspecified	-	-	1	-	1	-	2	-	-	3	2	2	1	2	1	-	15	1.3
Other and Unspecified*		-	-	-	-	-	-	-	2	-	5	4	11	4	6	6	2	40	3.5
All Sites		5	1	4	3	5	13	39	51	103	139	138	159	150	137	104	91	1142	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

Ratnagiri District PBCR Report 2019-2020

**Table 28: Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35-64 yrs) (TR)
Incidence Rate per 100,000 Population 2019-2020 – Male Ratnagiri District**

ICD 10	00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TR
C00	-	-	-	-	-	-	-	-	0.9	3.9	2.4	2.9	1.6	5.4	2.0	-	1.0	0.8	1.9
C01-C02	-	-	-	-	-	1.1	1.2	5.0	8.3	13.8	8.5	21.6	21.3	16.3	8.1	2.0	5.7	4.6	12.1
C03-C06	-	-	-	-	-	2.3	5.8	6.9	18.4	22.7	21.8	34.6	45.9	43.3	30.6	29.4	13.2	10.2	23.2
C07-C08	-	-	-	-	1.0	-	1.2	1.0	-	1.0	-	-	1.6	-	-	-	0.4	0.3	0.6
C09	-	-	-	-	-	-	-	-	-	-	-	-	3.3	1.8	4.1	-	0.4	0.3	0.4
C10	-	-	-	-	-	-	-	-	-	2.4	1.4	4.9	1.8	4.1	2.0	-	0.7	0.6	1.2
C11	-	-	-	-	-	1.1	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.0
C12-C13	-	-	-	-	-	-	-	-	-	2.0	3.6	7.2	9.8	5.4	4.1	17.6	2.2	1.6	3.2
C14	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	2.0	-	0.2	0.1	0.0
C15	-	-	-	-	-	-	-	1.0	0.9	-	2.4	7.2	1.6	12.6	14.3	23.5	2.6	1.7	1.9
C16	-	-	-	-	-	1.1	-	3.0	1.8	3.0	6.1	4.3	18.0	5.4	14.3	9.8	3.1	2.4	5.4
C17	-	-	-	-	-	-	-	-	-	-	-	1.4	-	-	-	-	0.1	0.1	0.2
C18	-	-	-	-	-	-	1.2	-	0.9	-	4.8	8.6	8.2	7.2	4.1	2.0	1.7	1.4	3.1
C19-C20	-	-	-	0.7	1.0	-	-	2.0	1.8	1.0	6.1	5.8	11.5	14.4	12.2	5.9	2.9	2.2	4.1
C21	-	-	-	-	-	-	-	-	0.9	-	-	-	1.6	1.8	2.0	-	0.3	0.2	0.4
C22	1.6	-	-	-	1.0	-	-	-	0.9	-	1.2	5.8	1.6	5.4	4.1	5.9	1.2	1.0	1.3
C23-C24	-	-	-	-	-	-	-	-	0.9	-	1.2	2.9	-	1.8	-	2.0	0.4	0.3	0.7
C25	-	-	-	-	-	-	-	1.0	-	2.0	2.4	4.3	3.3	3.6	8.1	3.9	1.3	1.0	1.9
C30-C31	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-	-	-	0.1	0.1	0.2
C32	-	-	-	-	-	-	-	-	-	1.0	2.4	7.2	9.8	7.2	8.1	5.9	1.8	1.4	2.8
C33-C34	-	-	-	-	-	-	1.2	2.0	0.9	2.0	7.3	8.6	11.5	21.7	12.2	3.9	3.3	2.5	4.7
C37-C38	-	-	-	-	-	1.1	-	-	-	-	-	1.4	-	1.8	-	-	0.2	0.2	0.2
C40-C41	-	1.1	0.8	2.2	-	-	-	-	0.9	-	-	-	-	3.6	-	-	0.6	0.5	0.2
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	-	2.0	0.1	0.1	0.0
C44	-	-	-	-	-	-	1.2	-	-	-	-	1.4	1.6	-	4.1	5.9	0.6	0.4	0.4
C45	-	-	-	-	-	-	-	-	-	-	-	1.4	-	1.8	-	-	0.1	0.1	0.2
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	-	-	-	0.7	1.0	1.1	-	-	1.8	1.0	1.2	-	1.6	1.8	-	-	0.7	0.6	1.0
C50	-	-	-	-	-	-	-	-	0.9	1.0	-	-	1.6	5.4	2.0	2.0	0.6	0.4	0.6
C60	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	-	5.9	0.3	0.2	0.0
C61	-	-	-	-	-	-	-	-	-	-	2.4	2.9	11.5	10.8	16.3	25.5	2.8	1.9	2.2
C62	-	-	-	-	1.0	2.3	4.7	2.0	-	1.0	-	-	-	1.8	-	-	0.8	0.8	0.6
C63	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.0
C64	-	-	-	-	-	-	-	-	1.8	1.0	-	2.9	-	1.8	-	-	0.4	0.3	0.9
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	-	1.0	0.9	1.0	2.4	1.4	4.9	9.0	4.1	3.9	1.3	1.0	1.8
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C70-C72	-	-	-	0.7	2.0	-	1.2	-	0.9	1.0	3.6	7.2	-	-	4.1	-	1.2	1.0	1.9
C73	-	-	-	-	-	-	-	1.0	-	1.0	1.2	-	-	-	-	2.0	0.3	0.2	0.6
C74	3.3	-	-	-	1.0	-	-	-	-	-	-	-	-	-	-	-	0.2	0.5	0.0
C75	-	-	-	-	1.0	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.0
C81	-	-	0.8	-	-	1.1	1.2	-	-	-	-	-	-	-	-	-	0.2	0.2	0.0
C82-C86&C96	1.6	-	1.5	2.9	1.0	1.1	-	-	1.8	2.0	1.2	1.4	1.6	3.6	4.1	2.0	1.5	1.4	1.3
C88	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-	-	-	0.1	0.1	0.2
C90	-	-	-	-	-	-	-	1.0	-	1.0	2.4	-	1.6	-	2.0	-	0.4	0.3	1.0
C91	-	-	-	0.7	1.0	1.1	1.2	-	-	-	-	-	-	1.8	-	-	0.4	0.4	0.0
C92-C94	3.3	-	-	0.7	2.0	-	2.3	1.0	-	-	1.2	2.9	-	3.6	-	-	0.9	1.1	0.8
C95	-	-	-	-	-	-	-	-	2.8	-	-	-	-	-	4.1	2.0	0.4	0.3	0.5
O&U*	1.6	-	-	-	-	-	-	2.0	5.5	3.0	9.7	13.0	23.0	7.2	16.3	13.7	4.5	3.6	8.2
All Sites	13.0	1.1	3.0	8.8	12.8	13.8	22.2	29.8	54.2	65.1	98.1	159.8	206.7	216.7	191.5	178.2	61.6	48.6	92.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

Ratnagiri District PBCR Report 2019-2020

Table 29: Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35-64 yrs) (TR) Incidence Rate per 100,000 Population 2019-2020 – Female Ratnagiri District

ICD 10	00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TR
C00	-	-	-	-	-	-	-	-	-	-	-	1.3	-	1.2	3.1	4.4	0.5	0.2	0.2
C01-C02	-	-	-	-	-	1.0	-	-	1.6	3.8	2.3	10.6	7.7	4.8	14.0	4.4	2.6	1.8	3.8
C03-C06	-	-	-	-	-	-	0.9	4.9	7.2	9.6	10.4	19.9	21.8	24.2	18.7	16.1	7.4	5.0	11.3
C07-C08	-	-	-	-	-	-	-	-	-	1.0	-	-	-	-	-	-	0.1	0.1	0.2
C09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	-	-	-	-	-	-	-	-	-	1.0	-	1.3	-	1.2	-	-	0.2	0.1	0.4
C11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	0.1	0.0	0.0
C12-C13	-	-	-	-	-	-	0.9	-	3.2	1.9	2.3	4.0	1.3	3.6	4.7	2.9	1.4	1.0	2.0
C14	-	-	-	-	-	-	-	-	-	1.0	-	1.3	-	-	1.6	-	0.2	0.1	0.4
C15	-	-	-	-	-	-	2.8	1.6	4.0	5.8	8.1	21.2	14.1	16.9	12.5	11.7	5.4	3.7	8.1
C16	-	-	-	-	-	-	1.9	1.6	0.8	1.9	3.5	2.7	1.3	4.8	1.6	5.9	1.5	1.0	1.9
C17	-	-	-	-	-	-	-	-	-	-	1.2	1.3	-	-	-	-	0.1	0.1	0.4
C18	-	-	-	-	-	-	-	0.8	1.6	2.9	3.5	4.0	6.4	2.4	3.1	-	1.4	1.0	2.9
C19-C20	-	-	-	-	0.9	2.1	1.9	0.8	2.4	3.8	1.2	1.3	6.4	1.2	6.2	5.9	1.9	1.4	2.6
C21	-	-	-	-	-	-	-	-	-	1.0	-	1.3	1.3	2.4	1.6	1.5	0.5	0.3	0.5
C22	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	-	1.5	0.3	0.2	0.7
C23-C24	-	-	-	-	-	-	-	0.8	0.8	1.9	1.2	2.7	-	-	1.6	-	0.5	0.4	1.2
C25	-	-	-	-	-	-	-	-	-	1.0	2.3	-	3.8	2.4	1.6	1.5	0.7	0.5	1.1
C30-C31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C32	-	-	-	-	-	-	-	-	1.6	-	3.5	1.3	2.6	1.2	-	-	0.6	0.5	1.4
C33-C34	-	-	-	-	-	-	-	0.8	-	4.8	10.4	10.6	5.1	3.6	4.7	2.9	2.3	1.7	4.8
C37-C38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	-	-	0.8	0.9	0.9	-	-	-	-	-	1.2	-	1.3	-	-	-	0.3	0.3	0.4
C43	-	-	-	-	-	-	-	-	-	-	1.2	-	1.3	2.4	-	-	0.3	0.2	0.4
C44	-	-	-	-	-	-	-	0.8	-	1.0	-	1.3	5.1	-	4.7	1.5	0.7	0.5	1.2
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	-	-	-	-	-	-	0.9	0.8	-	1.0	1.2	4.0	1.3	1.2	-	-	0.6	0.5	1.2
C50	-	-	-	-	0.9	3.1	17.8	17.2	31.4	51.9	52.1	45.1	52.6	43.5	26.5	35.1	22.3	16.5	40.5
C51	-	-	-	-	-	-	-	-	-	-	-	-	1.3	-	1.6	1.5	0.2	0.1	0.2
C52	-	-	-	-	-	-	-	-	-	-	-	-	1.3	1.2	-	1.5	0.2	0.1	0.2
C53	-	-	-	-	-	-	0.9	1.6	7.2	6.7	13.9	13.3	16.7	18.1	18.7	17.6	6.2	4.2	9.1
C54	-	-	-	-	-	-	-	-	1.6	1.0	4.6	6.6	9.0	6.0	3.1	1.5	1.8	1.3	3.3
C55	-	-	-	-	-	1.0	-	-	-	-	1.2	-	-	-	-	-	0.1	0.1	0.2
C56	-	-	-	1.8	0.9	2.1	1.9	3.3	12.9	8.7	13.9	21.2	12.8	7.2	7.8	7.3	6.0	4.6	11.4
C57	-	-	-	-	-	-	-	-	-	1.0	-	-	-	1.2	-	-	0.1	0.1	0.2
C58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	-	-	-	-	-	-	-	0.8	0.8	1.9	1.2	-	1.3	-	1.6	-	0.5	0.4	1.0
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	1.6	-	0.1	0.1	0.0
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	1.8	-	-	-	-	1.0	-	-	-	-	-	-	-	-	-	1.5	0.2	0.3	0.0
C70-C72	3.6	-	-	-	-	1.0	0.9	0.8	-	1.9	1.2	4.0	-	-	1.6	-	0.8	1.0	1.2
C73	-	-	-	-	-	-	1.9	0.8	-	4.8	4.6	2.7	2.6	1.2	4.7	1.5	1.4	1.0	2.5
C74	1.8	-	-	-	-	-	-	-	0.8	-	-	-	1.3	-	-	-	0.2	0.3	0.3
C75	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.0
C81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C82-C86&C96	-	-	0.8	-	-	1.0	-	2.5	1.6	3.8	2.3	1.3	2.6	2.4	3.1	1.5	1.4	1.1	2.4
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	-	-	2.3	1.3	1.3	-	-	-	0.3	0.2	0.7
C91	-	1.2	0.8	-	-	-	-	-	1.6	-	-	-	1.3	-	1.6	-	0.4	0.4	0.5
C92-C94	-	-	-	-	-	1.0	1.9	-	1.6	1.0	2.3	2.7	1.3	-	-	-	0.7	0.6	1.4
C95	-	-	0.8	-	0.9	-	1.9	-	-	2.9	2.3	2.7	1.3	2.4	1.6	-	1.0	0.8	1.4
O&U*	-	-	-	-	-	-	-	1.6	-	4.8	4.6	14.6	5.1	7.2	9.4	2.9	2.7	1.9	4.5
All Sites	9.1	1.2	3.3	2.6	4.5	13.4	36.6	41.8	82.9	133.6	159.7	210.8	192.3	165.5	162.2	133.2	76.4	55.8	127.8

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

Table 30: Cumulative Rate (Cu. Rate) & Cumulative Risk (Cu. Risk) of Individual Sites (ICD 10) Based on Age-Specific Rates (From 0-64 Years and 0-74 Years) 2019-2020 – Males

ICD 10	Site	0-64 Years		0-74 Years	
		Cu. Rate	Cu. Risk	Cu. Rate	Cu. Risk
C00	Lip	0.0006	0.0006	0.0010	0.0010
C01-C02	Tongue	0.0040	0.0040	0.0053	0.0053
C03-C06	Mouth	0.0079	0.0079	0.0116	0.0116
C07-C08	Salivary Gland	0.0003	0.0003	0.0003	0.0003
C09	Tonsil	0.0002	0.0002	0.0005	0.0005
C10	Oth. Oropharynx	0.0004	0.0004	0.0007	0.0007
C11	Nasopharynx	0.0001	0.0001	0.0001	0.0001
C12-C13	Hypopharynx	0.0011	0.0011	0.0016	0.0016
C14	Pharynx Unspecified	0.0000	0.0000	0.0003	0.0003
C15	Oesophagus	0.0007	0.0007	0.0020	0.0020
C16	Stomach	0.0019	0.0019	0.0029	0.0029
C17	Small Intestine	0.0001	0.0001	0.0001	0.0001
C18	Colon	0.0012	0.0012	0.0018	0.0018
C19-C20	Rectum	0.0015	0.0015	0.0028	0.0028
C21	Anus & Anal Canal	0.0001	0.0001	0.0003	0.0003
C22	Liver	0.0006	0.0006	0.0011	0.0011
C23-C24	Gallbladder etc.	0.0003	0.0003	0.0003	0.0003
C25	Pancreas	0.0006	0.0006	0.0012	0.0012
C30-C31	Nose, Sinuses etc.	0.0001	0.0001	0.0001	0.0001
C32	Larynx	0.0010	0.0010	0.0018	0.0018
C33-C34	Trachea, bronchus and lung	0.0017	0.0017	0.0034	0.0034
C37-C38	Other Thoracic Organs	0.0001	0.0001	0.0002	0.0002
C40-C41	Bone	0.0002	0.0002	0.0004	0.0004
C43	Melanoma of Skin	0.0000	0.0000	0.0001	0.0001
C44	Other Skin	0.0002	0.0002	0.0004	0.0004
C45	Mesothelioma	0.0001	0.0001	0.0002	0.0002
C46	Kaposi Sarcoma	-	-	-	-
C47+C49	Conn. & Soft Tissue	0.0004	0.0004	0.0005	0.0005
C50	Breast	0.0002	0.0002	0.0006	0.0006
C60	Penis	0.0000	0.0000	0.0001	0.0001
C61	Prostate	0.0008	0.0008	0.0022	0.0022
C62	Testis	0.0005	0.0005	0.0006	0.0006
C63	Other Male Genital	0.0001	0.0001	0.0001	0.0001
C64	Kidney etc.	0.0003	0.0003	0.0004	0.0004
C65	Renal Pelvis	-	-	-	-
C66	Ureter	-	-	-	-
C67	Urinary Bladder	0.0006	0.0006	0.0012	0.0012
C68	Unspecified Urinary Organs	-	-	-	-
C69	Eye	-	-	-	-
C70-C72	Brain, Nervous System	0.0008	0.0008	0.0010	0.0010
C73	Thyroid	0.0002	0.0002	0.0002	0.0002
C74	Adrenal Gland	0.0002	0.0002	0.0002	0.0002
C75	Other Endocrine	0.0000	0.0000	0.0000	0.0000
C81	Hodgkins Disease	0.0002	0.0002	0.0002	0.0002
C82-C86&C96	Non-Hodgkin lymphoma	0.0008	0.0008	0.0012	0.0012
C88	Malig Imn.Prol D	0.0001	0.0001	0.0001	0.0001
C90	Multiple Myeloma	0.0003	0.0003	0.0004	0.0004
C91	Lymphoid Leukaemia	0.0002	0.0002	0.0003	0.0003
C92-C94	Myeloid Leukaemia	0.0007	0.0007	0.0008	0.0008
C95	Leukaemia Unspecified	0.0001	0.0001	0.0003	0.0003
	Other and Unspecified*	0.0029	0.0029	0.0041	0.0041
	All Sites	0.0344	0.0344	0.0548	0.0548

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

Ratnagiri District PBCR Report 2019-2020

Table 31: Cumulative Rate (Cu. Rate) & Cumulative Risk (Cu. Risk) of Individual Sites (ICD 10) Based on Age-Specific Rates (From 0-64 Years and 0-74 Years) 2019-2020 – Females

ICD 10	Site	0-64 Years		0-74 Years	
		Cu. Rate	Cu. Risk	Cu. Rate	Cu. Risk
C00	Lip	0.0001	0.0001	0.0003	0.0003
C01-C02	Tongue	0.0014	0.0014	0.0023	0.0023
C03-C06	Mouth	0.0037	0.0037	0.0059	0.0059
C07-C08	Salivary Gland	0.0000	0.0000	0.0000	0.0000
C09	Tonsil	-	-	-	-
C10	Oth. Oropharynx	0.0001	0.0001	0.0002	0.0002
C11	Nasopharynx	0.0000	0.0000	0.0000	0.0000
C12-C13	Hypopharynx	0.0007	0.0007	0.0011	0.0011
C14	Pharynx Unspecified	0.0001	0.0001	0.0002	0.0002
C15	Oesophagus	0.0029	0.0029	0.0044	0.0044
C16	Stomach	0.0007	0.0007	0.0010	0.0010
C17	Small Intestine	0.0001	0.0001	0.0001	0.0001
C18	Colon	0.0010	0.0010	0.0012	0.0012
C19-C20	Rectum	0.0010	0.0010	0.0014	0.0014
C21	Anus & Anal Canal	0.0002	0.0002	0.0004	0.0004
C22	Liver	0.0003	0.0003	0.0003	0.0003
C23-C24	Gallbladder etc.	0.0004	0.0004	0.0004	0.0004
C25	Pancreas	0.0004	0.0004	0.0006	0.0006
C30-C31	Nose, Sinuses etc.	-	-	-	-
C32	Larynx	0.0004	0.0004	0.0005	0.0005
C33-C34	Trachea, bronchus and lung	0.0016	0.0016	0.0020	0.0020
C37-C38	Other Thoracic Organs	-	-	-	-
C40-C41	Bone	0.0003	0.0003	0.0003	0.0003
C43	Melanoma of Skin	0.0001	0.0001	0.0002	0.0002
C44	Other Skin	0.0004	0.0004	0.0006	0.0006
C45	Mesothelioma	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-
C47+C49	Conn. & Soft Tissue	0.0005	0.0005	0.0005	0.0005
C50	Breast	0.0136	0.0136	0.0171	0.0171
C51	Vulva	0.0001	0.0001	0.0001	0.0001
C52	Vagina	0.0001	0.0001	0.0001	0.0001
C53	Cervix Uteri	0.0030	0.0030	0.0049	0.0049
C54	Corpus Uteri	0.0011	0.0011	0.0016	0.0016
C55	Uterus Unspecified	0.0001	0.0001	0.0001	0.0001
C56	Ovary	0.0040	0.0040	0.0047	0.0047
C57	Other Female Genital	0.0000	0.0000	0.0001	0.0001
C58	Placenta	-	-	-	-
C64	Kidney etc.	0.0003	0.0003	0.0004	0.0004
C65	Renal Pelvis	-	-	-	-
C66	Ureter	-	-	-	-
C67	Urinary Bladder	0.0000	0.0000	0.0001	0.0001
C68	Unspecified Urinary Organs	-	-	-	-
C69	Eye	0.0001	0.0001	0.0001	0.0001
C70-C72	Brain, Nervous System	0.0007	0.0007	0.0008	0.0008
C73	Thyroid	0.0009	0.0009	0.0012	0.0012
C74	Adrenal Gland	0.0002	0.0002	0.0002	0.0002
C75	Other Endocrine	0.0001	0.0001	0.0001	0.0001
C81	Hodgkins Disease	-	-	-	-
C82-C86&C96	Non-Hodgkin lymphoma	0.0008	0.0008	0.0011	0.0011
C88	Malig Imn.Prol D	-	-	-	-
C90	Multiple Myeloma	0.0002	0.0002	0.0002	0.0002
C91	Lymphoid Leukaemia	0.0002	0.0002	0.0003	0.0003
C92-C94	Myeloid Leukaemia	0.0006	0.0006	0.0006	0.0006
C95	Leukaemia Unspecified	0.0006	0.0006	0.0008	0.0008
	Other and Unspecified*	0.0016	0.0016	0.0025	0.0025
	All Sites	0.0446	0.0446	0.0610	0.0610

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

Ratnagiri District PBCR Report 2019-2020

**Table 32: Number and Proportion of Cancers by Site (ICD 10) and Method of Diagnosis: 2019-2020
Males Ratnagiri District**

ICD10	Site	Clinical		Radiology		Microscopic		DCO/Verbal Autopsy		Total	
		No.	%	No.	%	No.	%	No.	%	No.	%
C00	Lip	-	-	-	-	14	100.0	-	-	14	100.0
C01-C02	Tongue	-	-	-	-	79	100.0	-	-	79	100.0
C03-C06	Mouth	7	3.9	1	0.6	170	93.9	3	1.7	181	100.0
C07-C08	Salivary Glands	-	-	-	-	5	100.0	-	-	5	100.0
C09	Tonsil	-	-	-	-	5	100.0	-	-	5	100.0
C10	Other Oropharynx	-	-	-	-	10	100.0	-	-	10	100.0
C11	Nasopharynx	-	-	-	-	1	100.0	-	-	1	100.0
C12-C13	Hypopharynx	-	-	-	-	30	100.0	-	-	30	100.0
C14	Pharynx Unspecified	-	-	-	-	2	66.7	1	33.3	3	100.0
C15	Oesophagus	4	11.1	2	5.6	26	72.2	4	11.1	36	100.0
C16	Stomach	4	9.3	-	-	36	83.7	3	7.0	43	100.0
C17	Small Intestine	-	-	-	-	1	100.0	-	-	1	100.0
C18	Colon	-	-	2	8.3	22	91.7	-	-	24	100.0
C19-C20	Rectum	2	5.0	1	2.5	37	92.5	-	-	40	100.0
C21	Anus & Anal Canal	-	-	-	-	4	100.0	-	-	4	100.0
C22	Liver	-	-	3	17.6	13	76.5	1	5.9	17	100.0
C23-C24	Gall Bladder	-	-	2	33.3	4	66.7	-	-	6	100.0
C25	Pancreas	1	5.6	1	5.6	16	88.9	-	-	18	100.0
C30-C31	Nose, sinuses etc.	-	-	-	-	1	100.0	-	-	1	100.0
C32	Larynx	-	-	-	-	25	100.0	-	-	25	100.0
C33-C34	Lung	2	4.4	4	8.9	35	77.8	4	8.9	45	100.0
C37-C38	Other Thoracic Organ	-	-	-	-	3	100.0	-	-	3	100.0
C40-C41	Bone	-	-	-	-	8	100.0	-	-	8	100.0
C43	Melanoma of skin	-	-	-	-	2	100.0	-	-	2	100.0
C44	Other Skin	1	12.5	-	-	7	87.5	-	-	8	100.0
C45	Mesothelioma	-	-	-	-	2	100.0	-	-	2	100.0
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-
C47+C49	Conn. & Soft tissue	-	-	-	-	9	100.0	-	-	9	100.0
C50	Breast	-	-	-	-	8	100.0	-	-	8	100.0
C60	Penis	-	-	-	-	4	100.0	-	-	4	100.0
C61	Prostate	5	13.2	-	-	31	81.6	2	5.3	38	100.0
C62	Testis	-	-	-	-	11	100.0	-	-	11	100.0
C63	Other Male genital	-	-	-	-	1	100.0	-	-	1	100.0
C64	Kidney etc.	-	-	-	-	5	83.3	1	16.7	6	100.0
C65	Renal Pelvis	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	-	-	18	100.0	-	-	18	100.0
C68	Uns. Urinary Organs	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	-	-	-	-	-	-	-	-
C70-C72	Brain, NS	2	12.5	1	6.25	11	68.8	2	12.5	16	100.0
C73	Thyroid	-	-	-	-	4	100.0	-	-	4	100.0
C74	Adrenal gland	-	-	-	-	3	100.0	-	-	3	100.0
C75	Other Endocrine	-	-	-	-	1	100.0	-	-	1	100.0
C81	Hodgkins Disease	-	-	-	-	3	100.0	-	-	3	100.0
C82-C86&C96	NHL	-	-	-	-	21	100.0	-	-	21	100.0
C88	Imm. Disease	-	-	-	-	1	100.0	-	-	1	100.0
C90	Multiple Myeloma	-	-	-	-	6	100.0	-	-	6	100.0
C91	Lymphoid Leukemia	-	-	-	-	5	100.0	-	-	5	100.0
C92-C94	Myeloid Leukemia	-	-	-	-	13	100.0	-	-	13	100.0
C95	Leukemia Unspecified	2	33.3	-	-	3	50.0	1	16.7	6	100.0
Other and Unspecified*		4	6.5	5	8.1	44	71.0	9	14.5	62	100.0
	All Sites	34	4.0	22	2.6	760	89.7	31	3.7	847	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

Ratnagiri District PBCR Report 2019-2020

**Table 33: Number and Proportion of Cancers by Site (ICD 10) and Method of Diagnosis: 2019-2020
Females Ratnagiri District**

ICD10	Site	Clinical		Radiology		Microscopic		DCO/Verbal Autopsy		Total	
		No.	%	No.	%	No.	%	No.	%	No.	%
C00	Lip	-	-	-	-	7	100.0	-	-	7	100.0
C01-C02	Tongue	3	7.7	1	2.6	35	89.7	-	-	39	100.0
C03-C06	Mouth	4	3.6	-	-	104	94.5	2	1.8	110	100.0
C07-C08	Salivary Glands	-	-	-	-	1	100.0	-	-	1	100.0
C09	Tonsil	-	-	-	-	-	-	-	-	-	-
C10	Other Oropharynx	-	-	-	-	3	100.0	-	-	3	100.0
C11	Nasopharynx	-	-	-	-	1	100.0	-	-	1	100.0
C12-C13	Hypopharynx	1	4.8	2	9.5	16	76.2	2	9.5	21	100.0
C14	Pharynx Unspecified	-	-	-	-	3	100.0	-	-	3	100.0
C15	Oesophagus	4	5	3	3.75	70	87.5	3	3.8	80	100.0
C16	Stomach	1	4.5	-	-	19	86.4	2	9.1	22	100.0
C17	Small Intestine	-	-	-	-	2	100.0	-	-	2	100.0
C18	Colon	2	9.5	-	-	19	90.5	-	-	21	100.0
C19-C20	Rectum	1	3.4	-	-	28	96.6	-	-	29	100.0
C21	Anus & Anal Canal	-	-	-	-	7	100.0	-	-	7	100.0
C22	Liver	-	-	-	-	5	100.0	-	-	5	100.0
C23-C24	Gall Bladder	-	-	1	12.5	7	87.5	-	-	8	100.0
C25	Pancreas	-	-	-	-	10	100.0	-	-	10	100.0
C30-C31	Nose, sinuses etc.	-	-	-	-	-	-	-	-	-	-
C32	Larynx	1	11.1	-	-	8	88.9	-	-	9	100.0
C33-C34	Lung	2	5.7	2	5.7	27	77.1	4	11.4	35	100.0
C37-C38	Other Thoracic Organ	-	-	-	-	-	-	-	-	-	-
C40-C41	Bone	-	-	1	20	4	80.0	-	-	5	100.0
C43	Melanoma of skin	-	-	-	-	4	100.0	-	-	4	100.0
C44	Other Skin	-	-	-	-	11	100.0	-	-	11	100.0
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-
C47+C49	Conn. & Soft tissue	-	-	-	-	9	100.0	-	-	9	100.0
C50	Breast	17	5.1	2	0.6	310	92.8	5	1.5	334	100.0
C51	Vulva	-	-	-	-	3	100.0	-	-	3	100.0
C52	Vagina	-	-	-	-	3	100.0	-	-	3	100.0
C53	Cervix Uteri	6	6.5	2	2.2	79	84.9	6	6.5	93	100.0
C54	Corpus Uteri	-	-	-	-	26	96.3	1	3.7	27	100.0
C55	Uterus unspecified	-	-	-	-	2	100.0	-	-	2	100.0
C56	Ovary etc.	1	1.1	1	1.1	86	95.6	2	2.2	90	100.0
C57	Other female genital	-	-	-	-	2	100.0	-	-	2	100.0
C58	Placenta	-	-	-	-	-	-	-	-	-	-
C64	Kidney etc.	-	-	2	28.6	5	71.4	-	-	7	100.0
C65	Renal Pelvis	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	-	-	2	100.0	-	-	2	100.0
C68	Uns. Urinary Organs	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	1	33.3	2	66.7	-	-	3	100.0
C70-C72	Brain, NS	-	-	1	8.3	11	91.7	-	-	12	100.0
C73	Thyroid	-	-	-	-	21	100.0	-	-	21	100.0
C74	Adrenal gland	-	-	-	-	3	100.0	-	-	3	100.0
C75	Other Endocrine	-	-	-	-	1	100.0	-	-	1	100.0
C81	Hodgkins Disease	-	-	-	-	-	-	-	-	-	-
C82-C86&C96	NHL	-	-	-	-	21	100.0	-	-	21	100.0
C88	Imm. Disease	-	-	-	-	-	-	-	-	-	-
C90	Multiple Myeloma	-	-	-	-	4	100.0	-	-	4	100.0
C91	Lymphoid Leukemia	-	-	-	-	6	100.0	-	-	6	100.0
C92-C94	Myeloid Leukemia	-	-	-	-	11	100.0	-	-	11	100.0
C95	Leukemia Unspecified	4	26.7	1	6.7	4	26.7	6	40.0	15	100.0
Other and Unspecified*		-	-	2	5	32	80.0	6	15.0	40	100.0
All Sites		47	4.1	22	1.9	1034	90.5	39	3.4	1142	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

Ratnagiri District PBCR Report 2019-2020

Table 34: Number of Cancer Deaths by Five Year Age Group and Site (ICD 10): 2019-2020 – Males
Ratnagiri District % Relative Proportion of Cancers of All Sites

ICD 10	Site	00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Total	%
C00	Lip	-	-	-	-	-	-	-	-	1	1	1	-	-	2	1	6	0.9	
C01-C02	Tongue	-	-	-	-	-	-	1	5	7	8	9	7	7	5	1	50	7.3	
C03-C06	Mouth	-	-	-	-	-	-	8	9	19	14	17	19	13	9	17	125	18.2	
C07-C08	Salivary Gland	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	2	0.3	
C09	Tonsil	-	-	-	-	-	-	-	-	1	-	-	1	1	2	-	5	0.7	
C10	Oth. Oropharynx	-	-	-	-	-	-	-	-	-	-	1	5	2	2	3	13	1.9	
C11	Nasopharynx	-	-	-	-	-	1	-	-	-	-	-	3	-	-	-	4	0.6	
C12-C13	Hypopharynx	-	-	-	-	-	-	-	-	4	1	2	7	7	2	7	30	4.4	
C14	Pharynx Unspecified	-	-	-	-	-	-	-	-	-	-	1	-	1	3	1	6	0.9	
C15	Oesophagus	-	-	-	-	-	-	-	1	-	1	7	8	7	6	12	42	6.1	
C16	Stomach	-	-	-	-	-	1	-	-	3	2	4	12	8	8	3	41	6.0	
C17	Small Intestine	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.1	
C18	Colon	-	-	-	-	-	-	-	1	1	2	4	-	2	-	-	10	1.5	
C19-C20	Rectum	-	-	-	-	-	-	1	-	1	6	3	1	9	1	6	28	4.1	
C21	Anus & Anal Canal	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	3	0.4	
C22	Liver	1	-	-	-	-	-	-	1	-	1	3	1	2	4	5	18	2.6	
C23-C24	Gallbladder etc.	-	-	-	-	-	-	-	1	1	1	1	1	3	-	1	9	1.3	
C25	Pancreas	-	-	-	-	-	-	1	1	-	1	2	4	5	3	1	18	2.6	
C30-C31	Nose, Sinuses etc.	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	0.3	
C32	Larynx	-	-	-	-	-	-	-	-	-	2	3	7	8	5	4	29	4.2	
C33-C34	Trachea, bronchus and lung	-	-	-	-	-	1	2	2	1	6	11	10	12	8	1	54	7.8	
C37-C38	Other Thoracic Organs	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	3	0.4	
C40-C41	Bone	-	-	-	1	1	-	-	-	-	-	1	-	-	-	-	3	0.4	
C43	Melanoma of Skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.1	
C44	Other Skin	-	-	-	-	-	-	1	-	-	-	-	-	1	-	1	2	0.7	
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C47+C49	Conn. & Soft Tissue	-	-	-	1	1	1	-	1	1	1	-	-	1	3	1	11	1.6	
C50	Breast	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	0.3	
C60	Penis	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	0.4	
C61	Prostate	-	-	-	-	-	-	-	-	-	2	3	3	1	8	11	28	4.1	
C62	Testis	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	0.1	
C63	Other Male Genital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C64	Kidney etc.	1	-	-	-	-	-	1	-	2	1	-	1	1	2	1	-	10	1.5
C65	Renal Pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C67	Urinary Bladder	-	-	-	-	-	-	-	-	1	1	-	2	1	2	3	10	1.5	
C68	Unspecified Urinary Organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C69	Eye	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C70-C72	Brain, Nervous System	1	1	1	2	2	-	2	1	1	-	1	1	1	3	-	-	17	2.5
C73	Thyroid	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	2	0.3
C74	Adrenal Gland	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.3
C75	Other Endocrine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C81	Hodgkins Disease	-	-	1	-	1	-	1	1	-	1	-	-	-	-	-	-	5	0.7
C82-C86&C96	Non-Hodgkin lymphoma	1	-	1	-	-	-	1	-	-	-	3	1	1	2	1	2	13	1.9
C88	Malig Imn.Prol D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C90	Multiple Myeloma	-	-	-	-	-	-	-	-	-	1	1	1	-	1	-	4	0.6	
C91	Lymphoid Leukaemia	-	1	-	1	1	1	1	-	-	-	1	2	1	-	-	9	1.3	
C92-C94	Myeloid Leukaemia	2	-	-	-	-	-	-	-	-	-	2	-	1	-	-	5	0.7	
C95	Leukaemia Unspecified	-	-	-	-	-	-	-	2	1	-	1	-	-	2	1	7	1.0	
Other and Unspecified*		1	-	-	-	-	-	-	1	4	4	7	7	8	3	10	6	51	7.4
All Sites		8	3	3	5	6	4	9	16	32	49	62	94	105	106	92	94	688	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

Ratnagiri District PBCR Report 2019-2020

Table 35: Number of Cancer Deaths by Five Year Age Group and Site (ICD 10): 2019-2020 – Females
Ratnagiri District % = Relative Proportion of Cancers of All Sites

ICD 10	Site	00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Total	%
C00	Lip	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	3	0.4
C01-C02	Tongue	-	-	-	-	-	-	-	1	2	4	2	5	4	2	6	2	28	3.7
C03-C06	Mouth	-	-	-	-	-	-	-	-	4	7	7	9	15	17	8	11	78	10.4
C07-C08	Salivary Gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	Oth. Oropharynx	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	2	0.3
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-C13	Hypopharynx	-	-	-	-	-	-	1	-	3	2	3	1	2	1	1	2	16	2.1
C14	Pharynx Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	0.1
C15	Oesophagus	-	-	-	-	-	-	2	4	1	4	4	8	11	12	7	5	58	7.7
C16	Stomach	-	-	-	-	-	-	2	3	2	1	-	7	1	3	2	2	23	3.1
C17	Small Intestine	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.1
C18	Colon	-	-	-	-	-	-	-	-	-	1	1	1	2	3	1	-	9	1.2
C19-C20	Rectum	-	-	-	-	-	-	-	-	2	-	2	3	3	1	5	4	20	2.7
C21	Anus & Anal Canal	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	5	0.7
C22	Liver	-	-	-	-	-	-	-	1	-	-	-	2	2	-	-	1	6	0.8
C23-C24	Gallbladder etc.	-	-	-	-	-	-	-	1	1	2	3	1	1	-	1	-	10	1.3
C25	Pancreas	-	-	-	-	-	-	-	-	-	-	-	1	4	3	2	1	11	1.5
C30-C31	Nose, Sinuses etc.	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.1
C32	Larynx	-	-	-	-	-	-	-	-	-	1	1	1	3	1	1	-	8	1.1
C33-C34	Trachea, bronchus and lung	-	-	-	-	1	-	-	2	-	4	6	9	4	3	7	2	38	5.1
C37-C38	Other Thoracic Organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	Bone	-	-	1	3	-	-	-	-	-	-	2	-	-	-	-	-	6	0.8
C43	Melanoma of Skin	-	-	-	-	-	-	-	-	-	-	1	2	1	-	-	-	4	0.5
C44	Other Skin	-	-	-	-	-	-	-	-	-	-	1	-	2	-	2	3	8	1.1
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	Conn. & Soft Tissue	-	-	-	-	-	1	1	-	1	1	-	-	1	-	2	-	7	0.9
C50	Breast	-	-	-	-	2	1	3	5	9	24	18	18	24	22	13	14	153	20.4
C51	Vulva	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.1
C52	Vagina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C53	Cervix Uteri	-	-	-	-	-	-	-	-	4	9	3	11	6	13	13	12	71	9.5
C54	Corpus Uteri	-	-	-	-	-	-	-	-	-	-	4	2	-	3	3	-	12	1.6
C55	Uterus Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C56	Ovary	-	-	-	-	1	1	2	4	3	6	7	15	7	4	6	9	65	8.7
C57	Other Female Genital	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.1
C58	Placenta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney etc.	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	1	4	0.5
C65	Renal Pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Urinary Bladder	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	0.3
C68	Unspecified Urinary Organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C70-C72	Brain, Nervous System	1	-	-	-	-	-	1	-	-	1	2	3	1	2	-	-	11	1.5
C73	Thyroid	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	3	0.4
C74	Adrenal Gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C75	Other Endocrine	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.1
C81	Hodgkins Disease	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	0.3
C82-C86&C96	Non-Hodgkin lymphoma	-	-	-	-	1	-	-	1	2	-	-	1	1	3	-	5	14	1.9
C88	Malignant Proliferative Disorder	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple Myeloma	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	4	0.5
C91	Lymphoid Leukaemia	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	3	0.4
C92-C94	Myeloid Leukaemia	1	-	-	-	-	1	-	-	2	2	2	1	-	-	-	-	9	1.2
C95	Leukaemia Unspecified	-	-	-	-	1	-	2	-	-	3	3	2	-	2	1	-	14	1.9
Other and Unspecified*		-	-	-	-	-	-	-	3	1	3	4	8	5	5	6	2	37	4.9
	All Sites	3	-	1	3	6	4	15	25	39	77	78	115	105	106	93	80	750	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

Ratnagiri District PBCR Report 2019-2020

Table 36: Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35-64 Yrs.) (TR) Mortality Rate per 100,000 Population: 2019-2020 Males Ratnagiri District

ICD 10	00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TR
C00	-	-	-	-	-	-	-	-	-	1.0	1.2	1.4	-	-	4.1	2.0	0.4	0.3	0.6
C01-C02	-	-	-	-	-	-	-	1.0	4.6	6.9	9.7	13.0	11.5	12.6	10.2	2.0	3.6	2.8	7.1
C03-C06	-	-	-	-	-	-	-	7.9	8.3	18.7	17.0	24.5	31.2	23.5	18.3	33.3	9.1	6.9	16.7
C07-C08	-	-	-	-	-	-	-	-	-	-	-	1.4	1.6	-	-	-	0.1	0.1	0.4
C09	-	-	-	-	-	-	-	-	-	1.0	-	-	1.6	1.8	4.1	-	0.4	0.3	0.4
C10	-	-	-	-	-	-	-	-	-	-	-	1.4	8.2	3.6	4.1	5.9	0.9	0.7	1.2
C11	-	-	-	-	-	1.1	-	-	-	-	-	4.3	-	-	-	-	0.3	0.3	0.6
C12-C13	-	-	-	-	-	-	-	-	-	3.9	1.2	2.9	11.5	12.6	4.1	13.7	2.2	1.6	2.8
C14	-	-	-	-	-	-	-	-	-	-	-	1.4	-	1.8	6.1	2.0	0.4	0.3	0.2
C15	-	-	-	-	-	-	-	-	0.9	-	1.2	10.1	13.1	12.6	12.2	23.5	3.1	2.1	3.4
C16	-	-	-	-	-	1.1	-	-	-	3.0	2.4	5.8	19.7	14.4	16.3	5.9	3.0	2.3	4.2
C17	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	-	-	0.1	0.1	0.0
C18	-	-	-	-	-	-	-	-	0.9	1.0	2.4	5.8	-	3.6	-	-	0.7	0.6	1.5
C19-C20	-	-	-	-	-	-	-	1.0	-	1.0	7.3	4.3	1.6	16.3	2.0	11.7	2.0	1.5	2.3
C21	-	-	-	-	-	-	-	-	-	-	-	1.4	1.6	-	-	2.0	0.2	0.2	0.4
C22	1.6	-	-	-	-	-	-	-	0.9	-	1.2	4.3	1.6	3.6	8.1	9.8	1.3	1.0	1.1
C23-C24	-	-	-	-	-	-	-	-	0.9	1.0	1.2	1.4	1.6	5.4	-	2.0	0.7	0.5	1.0
C25	-	-	-	-	-	-	-	1.0	0.9	-	1.2	2.9	6.6	9.0	6.1	2.0	1.3	1.0	1.8
C30-C31	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	2.0	-	0.1	0.1	0.0
C32	-	-	-	-	-	-	-	-	-	-	2.4	4.3	11.5	14.4	10.2	7.8	2.1	1.5	2.4
C33-C34	-	-	-	-	-	-	1.2	2.0	1.8	1.0	7.3	15.8	16.4	21.7	16.3	2.0	3.9	3.0	6.3
C37-C38	-	-	-	-	-	-	-	-	0.9	-	-	1.4	-	1.8	-	-	0.2	0.2	0.4
C40-C41	-	-	-	0.7	1.0	-	-	-	-	-	-	1.4	-	-	-	-	0.2	0.2	0.2
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	0.1	0.0	0.0
C44	-	-	-	-	-	-	1.2	-	-	-	-	-	1.6	-	2.0	3.9	0.4	0.3	0.2
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	-	-	-	0.7	1.0	1.1	-	-	0.9	1.0	1.2	-	-	1.8	6.1	2.0	0.8	0.6	0.6
C50	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	-	2.0	0.1	0.1	0.0
C60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	3.9	0.2	0.1	0.0
C61	-	-	-	-	-	-	-	-	-	-	2.4	4.3	4.9	1.8	16.3	21.5	2.0	1.3	1.6
C62	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	0.1	0.1	0.0
C63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	1.6	-	-	-	-	-	1.2	-	1.8	1.0	-	1.4	1.6	3.6	2.0	-	0.7	0.7	0.9
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	-	-	-	1.0	1.2	-	3.3	1.8	4.1	5.9	0.7	0.5	0.8
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C70-C72	1.6	1.1	0.8	1.5	2.0	-	2.3	1.0	0.9	-	1.2	1.4	1.6	5.4	-	-	1.2	1.3	1.0
C73	-	-	-	-	-	-	-	-	-	1.0	-	-	-	-	2.0	-	0.1	0.1	0.2
C74	1.6	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.3	0.0
C75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	-	-	0.8	-	1.0	-	1.2	1.0	-	1.0	-	-	-	-	-	-	0.4	0.3	0.4
C82-C86&C96	1.6	-	0.8	-	-	-	1.2	-	-	-	3.6	1.4	1.6	3.6	2.0	3.9	0.9	0.9	1.0
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	-	-	1.2	1.4	1.6	-	2.0	-	0.3	0.2	0.6
C91	-	1.1	-	0.7	1.0	1.1	1.2	-	-	-	-	1.4	3.3	1.8	-	-	0.7	0.7	0.6
C92-C94	3.3	-	-	-	-	-	-	-	-	-	-	2.9	-	1.8	-	-	0.4	0.6	0.4
C95	-	-	-	-	-	-	-	-	1.8	1.0	-	1.4	-	-	4.1	2.0	0.5	0.3	0.7
O&U*	1.6	-	-	-	-	-	-	1.0	3.7	3.9	8.5	10.1	13.1	5.4	20.4	11.7	3.7	2.9	6.0
ALL Sites	13.0	3.3	2.3	3.7	5.9	4.6	10.5	15.9	29.4	48.3	75.1	135.3	172.2	191.5	187.4	184.0	50.0	38.7	69.9

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

Ratnagiri District PBCR Report 2019-2020

Table 37: Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35-64 Yrs.) (TR) Mortality Rate per 100,000 Population: 2019-2020 Females Ratnagiri District

ICD 10	00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TR
C00	-	-	-	-	-	-	-	-	-	-	-	-	1.3	1.2	1.6	-	0.2	0.1	0.2
C01-C02	-	-	-	-	-	-	-	0.8	1.6	3.8	2.3	6.6	5.1	2.4	9.4	2.9	1.9	1.3	3.1
C03-C06	-	-	-	-	-	-	-	-	3.2	6.7	8.1	11.9	19.2	20.5	12.5	16.1	5.2	3.4	7.3
C07-C08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	-	-	-	-	-	-	-	-	-	-	-	1.3	-	1.2	-	-	0.1	0.1	0.2
C11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-C13	-	-	-	-	-	-	0.9	-	2.4	1.9	3.5	1.3	2.6	1.2	1.6	2.9	1.1	0.8	1.9
C14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-	0.1	0.0	0.0
C15	-	-	-	-	-	-	1.9	3.3	0.8	3.8	4.6	10.6	14.1	14.5	10.9	7.3	3.9	2.6	5.5
C16	-	-	-	-	-	-	1.9	2.5	1.6	1.0	-	9.3	1.3	3.6	3.1	2.9	1.5	1.1	2.3
C17	-	-	-	-	-	-	-	-	-	-	-	1.3	-	-	-	-	0.1	0.1	0.2
C18	-	-	-	-	-	-	-	-	-	1.0	1.2	1.3	2.6	3.6	1.6	-	0.6	0.4	0.9
C19-C20	-	-	-	-	-	-	-	-	1.6	-	2.3	4.0	3.8	1.2	7.8	5.9	1.3	0.8	1.7
C21	-	-	-	-	-	-	-	-	-	-	-	1.3	-	1.2	1.6	2.9	0.3	0.2	0.2
C22	-	-	-	-	-	-	-	0.8	-	-	-	2.7	2.6	-	-	1.5	0.4	0.3	0.8
C23-C24	-	-	-	-	-	-	-	0.8	0.8	1.9	3.5	1.3	1.3	-	1.6	-	0.7	0.5	1.6
C25	-	-	-	-	-	-	-	-	-	-	-	1.3	5.1	3.6	3.1	1.5	0.7	0.5	0.8
C30-C31	-	-	-	-	-	-	-	-	-	-	-	-	1.3	-	-	-	0.1	0.1	0.2
C32	-	-	-	-	-	-	-	-	1.0	1.2	1.3	3.8	1.2	1.6	-	-	0.5	0.4	1.0
C33-C34	-	-	-	-	0.9	-	-	1.6	-	3.8	6.9	11.9	5.1	3.6	10.9	2.9	2.5	1.8	4.4
C37-C38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	-	-	0.8	2.6	-	-	-	-	-	-	2.3	-	-	-	-	-	0.4	0.4	0.4
C43	-	-	-	-	-	-	-	-	-	-	1.2	2.7	1.3	-	-	-	0.3	0.2	0.7
C44	-	-	-	-	-	-	-	-	-	-	1.2	-	2.6	-	3.1	4.4	0.5	0.3	0.5
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	-	-	-	-	-	1.0	0.9	-	0.8	1.0	-	-	1.3	-	3.1	-	0.5	0.4	0.5
C50	-	-	-	-	1.8	1.0	2.8	4.1	7.2	23.1	20.8	23.9	30.8	26.6	20.3	20.5	10.2	7.3	17.1
C51	-	-	-	-	-	-	-	-	-	-	-	-	1.3	-	-	-	0.1	0.1	0.2
C52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C53	-	-	-	-	-	-	-	-	3.2	8.7	3.5	14.6	7.7	15.7	20.3	17.6	4.7	3.0	5.7
C54	-	-	-	-	-	-	-	-	-	-	4.6	2.7	-	3.6	4.7	-	0.8	0.5	1.1
C55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C56	-	-	-	-	0.9	1.0	1.9	3.3	2.4	5.8	8.1	19.9	9.0	4.8	9.4	13.2	4.3	3.1	7.2
C57	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	0.1	0.0	0.0
C58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1	1.5	0.3	0.1	0.2
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	1.5	0.1	0.1	0.0
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C70-C72	1.8	-	-	-	-	-	0.9	-	-	1.0	2.3	4.0	1.3	2.4	-	-	0.7	0.7	1.2
C73	-	-	-	-	-	-	-	-	-	-	-	1.3	1.3	-	1.6	-	0.2	0.1	0.3
C74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C75	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.0
C81	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	1.5	0.1	0.1	0.0
C82-C86&C96	-	-	-	-	0.9	-	-	0.8	1.6	-	-	1.3	1.3	3.6	-	7.3	0.9	0.6	0.8
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	-	1.9	2.3	-	-	-	-	-	0.3	0.2	0.7
C91	-	-	-	-	-	-	0.9	-	0.8	-	-	-	1.3	-	-	-	0.2	0.2	0.3
C92-C94	1.8	-	-	-	-	1.0	-	-	1.6	1.9	2.3	1.3	-	-	-	-	0.6	0.7	1.2
C95	-	-	-	-	0.9	-	1.9	-	-	2.9	3.5	2.7	-	2.4	1.6	-	0.9	0.7	1.5
O&U*	-	-	-	-	-	-	-	2.5	0.8	2.9	4.6	10.6	6.4	6.0	9.4	2.9	2.5	1.7	4.1
ALL Sites	5.4	-	0.8	2.6	5.4	4.1	14.1	20.5	31.4	74.0	90.3	152.5	134.6	128.0	145.1	117.1	50.2	35.2	76.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C76, C77, C78, C79, C80, C97)

18. Paediatric Cancer Incidence Tables as per ICCC-3 Standard

Table 38: Number of cases in paediatric age-group incidence rate per million population: 2019-2020 (Both Sex)

ICCC	Site	00	05	10	15	00	00	00-14 %		00-19 %		Age-Specific rate per 1000000				AAR		Cumulative		Clinical % 00-19	Radiology % 00-19	M V % 00-19	
		-	-	-	-	-	-																
		04	09	14	19	14	19	All	Gro up	All	Gro up	00-04	05-09	10-14	15-19	00-14	00-19	00-14	00-19				
I	Leukemia	2	1	2	2	5	7	21.7	100	18.4	100	17.2	5.8	7.8	8.0	10.8	10.1	154	194	14.3	-	85.7	
a.	Lymphoid	-	1	1	1	2	3	8.7	40.0	7.9	42.9	-	5.8	3.9	4.0	3.0	3.2	48	68	-	-	100	
b.	Acute myeloid	2	-	-	-	2	2	8.7	40.0	5.3	28.6	17.2	-	-	-	6.6	5.1	86	86	-	-	100	
c.	CMD	-	-	-	1	-	1	-	-	2.6	14.3	-	-	-	4.0	-	0.9	-	20	-	-	100	
d.	MDS & Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e.	Unspecified	-	-	1	-	1	1	4.3	20.0	2.6	14.3	-	-	3.9	-	1.1	0.9	20	20	100	-	-	
II	Lymphoma & Related	1	-	4	4	5	9	21.7	100	23.7	100	8.6	-	15.7	16.0	7.9	9.7	121	201	-	-	100	
a.	Hodgkin	-	-	1	-	1	1	4.3	20.0	2.6	11.1	-	-	3.9	-	1.1	0.9	20	20	-	-	100	
b.	Non-Hodgkin except BL	-	-	2	2	2	4	8.7	40.0	10.5	44.4	-	-	7.8	8.0	2.3	3.6	39	79	-	-	100	
c.	Burkitt (BL)	1	-	-	1	1	2	4.3	20.0	5.3	22.2	8.6	-	-	4.0	3.3	3.5	43	63	-	-	100	
d.	Lymphoreticular	-	-	-	1	-	1	-	-	2.6	11.1	-	-	4.0	-	0.9	-	20	20	-	-	100	
e.	Unspecified	-	-	1	-	1	1	4.3	20.0	2.6	11.1	-	-	3.9	-	1.1	0.9	20	20	-	-	100	
III	CNS Neoplasms	3	-	-	1	3	4	13.0	100	10.5	100	25.7	-	-	4.0	10.0	8.6	129	149	-	50.0	50.0	
a.	Ependymoma	1	-	-	-	1	1	4.3	33.3	2.6	25.0	8.6	-	-	-	3.3	2.6	43	43	-	-	100	
b.	Astrocytoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
c.	CNS Embryonal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d.	Other gliomas	1	-	-	1	1	2	4.3	33.3	5.3	50.0	8.6	-	-	4.0	3.3	3.5	43	63	-	100	-	
e.	Other specified	1	-	-	-	1	1	4.3	33.3	2.6	25.0	8.6	-	-	-	3.3	2.6	43	43	-	-	100	
f.	Unspecified CNS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IV	Neuroblastoma	3	-	-	-	3	3	13.0	100	7.9	100	25.7	-	-	-	10.0	7.7	129	129	-	-	100	
a.	(Ganglio) Neuroblastoma	3	-	-	-	3	3	13.0	100	7.9	100	25.7	-	-	-	10.0	7.7	129	129	-	-	100	
b.	Peripheral nervous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
V	Retinoblastoma	1	-	-	-	1	1	4.3	100	2.6	100	8.6	-	-	-	3.3	2.6	43	43	-	-	100	
V	Retinoblastoma	1	-	-	-	1	1	4.3	100	2.6	100	8.6	-	-	-	3.3	2.6	43	43	-	-	100	
VI	Renal Tumours	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
a.	Nephroblastoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
b.	Renal carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
c.	Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VII	Hepatic Tumours	1	-	-	-	1	1	4.3	100	2.6	100	8.6	-	-	-	3.3	2.6	43	43	-	-	100	
a.	Hepatoblastoma	1	-	-	-	1	1	4.3	100	2.6	100	8.6	-	-	-	3.3	2.6	43	43	-	-	100	
b.	Hepatic carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
c.	Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VIII	Bone Tumours	1	1	2	4	4	8	17.4	100	21.1	100	8.6	5.8	7.8	16.0	7.4	9.4	111	191	-	12.5	87.5	
a.	Osteosarcoma	-	-	-	2	-	2	-	-	5.3	25.0	-	-	-	8.0	-	1.8	-	40	-	50.0	50.0	
b.	Chondrosarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
c.	Ewing & Related	-	1	2	1	3	4	13.0	75.0	10.5	50.0	-	5.8	7.8	4.0	4.1	4.1	68	88	-	-	100	
d.	Other specified	-	-	-	1	-	1	-	-	2.6	12.5	-	-	-	4.0	-	0.9	-	20	-	-	100	
e.	Unspecified	1	-	-	-	1	1	4.3	25.0	2.6	12.5	8.6	-	-	-	3.3	2.6	43	43	-	-	100	
IX	Soft Tissue Sarcoma	-	-	-	1	-	1	-	-	2.6	100	-	-	-	4.0	-	0.9	-	20	-	-	100	
a.	Rhabdomyosarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
b.	Fibrosarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
c.	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d.	Other specified	-	-	-	1	-	1	-	-	2.6	100	-	-	-	4.0	-	0.9	-	20	-	-	100	
e.	Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X	Germ Cell Tumours	1	-	-	2	1	3	4.3	100	7.9	100	8.6	-	-	8.0	3.3	4.4	43	83	-	-	100	
a.	CNS germ cell	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
b.	Other extragonadal	1	-	-	-	1	1	4.3	100	2.6	33.3	8.6	-	-	-	3.3	2.6	43	43	-	-	100	
c.	Gonadal germ cell	-	-	-	2	-	2	-	-	5.3	66.7	-	-	-	8.0	-	1.8	-	40	-	-	100	
d.	Gonadal carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e.	Unspecified gonadal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
XI	Carcinoma & Melanoma	-	-	-	1	-	1	-	-	2.6	100	-	-	-	4.0	-	0.9	-	20	-	-	100	
a.	Adrenocortical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
b.	Thyroid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
c.	Nasopharyngeal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d.	Melanoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e.	Skin carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
f.	Other & Unspecified	-	-	-	1	-	1	-	-	2.6	100	-	-	-	4.0	-	0.9	-	20	-	-	100	
XII	Other & Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
a.	Other specified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
b.	Other unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total		13	2	8	15	23	38	100	100	100	100	111.5	11.5	31.3	59.9	56.0	56.9	772	1071	2.6	7.9	89.5	

Ratnagiri District PBCR Report 2019-2020

Table 39: Number of Cases in Paediatric Age-Group, Incidence Rate per million Population 2019-2020

ICCC	Site	Males								M/F Ratio		Females							
		Number of cases in age groups						AAR per million		00-14	00-19	Number of cases in age groups						AAR per million	
		00-04	05-09	10-14	15-19	00-14	00-19	00-14	00-19			00-04	05-09	10-14	15-19	00-14	00-19	00-14	00-19
I	Leukemia	2	-	-	2	2	4	12.6	13.1	0.7	1.3	-	1	2	-	3	3	8.6	6.7
a.	Lymphoid	-	-	-	1	-	1	-	1.6	-	0.5	-	1	1	-	2	2	6.2	4.8
b.	Acute myeloid	2	-	-	-	2	2	12.6	9.8	-	-	-	-	-	-	-	-	-	-
c.	CMD	-	-	-	1	-	1	-	1.6	-	-	-	-	-	-	-	-	-	-
d.	MDS & Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e.	Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2.4	1.8
II	Lymphoma & Related	1	-	3	4	4	8	12.9	16.6	4.0	8.0	-	-	1	-	1	1	2.4	1.8
a.	Hodgkin	-	-	1	-	1	1	2.2	1.7	-	-	-	-	-	-	-	-	-	-
b.	Non-Hodgkin except BL	-	-	2	2	2	4	4.4	6.7	-	-	-	-	-	-	-	-	-	-
c.	Burkitt (BL)	1	-	-	1	1	2	6.3	6.5	-	-	-	-	-	-	-	-	-	-
d.	Lymphoreticular	-	-	-	1	-	1	-	1.6	-	-	-	-	-	-	-	-	-	-
e.	Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2.4	1.8
III	CNS Neoplasms	-	-	-	1	-	1	-	1.6	-	0.3	3.0	-	-	-	3	3	21.0	16.3
a.	Ependymoma	-	-	-	-	-	-	-	-	-	-	1.0	-	-	-	1	1	7.0	5.4
b.	Astrocytoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	CNS Embryonal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d.	Other gliomas	-	-	-	1	-	1	-	1.6	-	1.0	1.0	-	-	-	1	1	7.0	5.4
e.	Other specified	-	-	-	-	-	-	-	-	-	-	1.0	-	-	-	1	1	7.0	5.4
f.	Unspecified CNS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IV	Neuroblastoma	2	-	-	-	2	2	12.6	9.8	2.0	2.0	1.0	-	-	-	1	1	7.0	5.4
a.	(Ganglio) Neuroblastoma	2	-	-	-	2	2	12.6	9.8	2.0	2.0	1.0	-	-	-	1	1	7.0	5.4
b.	Peripheral nervous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V	Retinoblastoma	-	-	-	-	-	-	-	-	-	-	1.0	-	-	-	1	1	7.0	5.4
V	Retinoblastoma	-	-	-	-	-	-	-	-	-	-	1.0	-	-	-	1	1	7.0	5.4
VI	Renal Tumours	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
a.	Nephroblastoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Renal carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VII	Hepatic Tumours	1	-	-	-	1	1	6.3	4.9	-	-	-	-	-	-	-	-	-	-
a.	Hepatoblastoma	1	-	-	-	1	1	6.3	4.9	-	-	-	-	-	-	-	-	-	-
b.	Hepatic carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIII	Bone Tumours	1	1	1	3	3	6	12.1	14.3	3.0	3.0	-	-	1	1.0	1	2	2.4	3.8
a.	Osteosarcoma	-	-	-	1	-	1	-	1.6	-	1.0	-	-	-	1.0	-	1	-	2.0
b.	Chondrosarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	Ewing & Related	-	1	1	1	2	3	5.8	6.1	2.0	3.0	-	-	1	-	1	1	2.4	1.8
d.	Other specified	-	-	-	1	-	1	-	1.6	-	-	-	-	-	-	-	-	-	-
e.	Unspecified	1	-	-	-	1	1	6.3	4.9	-	-	-	-	-	-	-	-	-	-
IX	Soft Tissue Sarcoma	-	-	-	1	-	1	-	1.6	-	-	-	-	-	-	-	-	-	-
a.	Rhabdomyosarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Fibrosarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d.	Other specified	-	-	-	1	-	1	-	1.6	-	-	-	-	-	-	-	-	-	-
e.	Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X	Germ Cell Tumours	1	-	-	-	1	1	6.3	4.9	-	0.5	-	-	-	2.0	-	2	-	4.0
a.	CNS germ cell	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Other extragonadal	1	-	-	-	1	1	6.3	4.9	-	-	-	-	-	-	-	-	-	-
c.	Gonadal germ cell	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	2	-	4.0
d.	Gonadal carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e.	Unspecified gonadal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XI	Carcinoma & Melanoma	-	-	-	1	-	1	-	1.6	-	-	-	-	-	-	-	-	-	-
a.	Adrenocortical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Thyroid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	Nasopharyngeal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d.	Melanoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e.	Skin carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
f.	Other & Unspecified	-	-	-	1	-	1	-	1.6	-	-	-	-	-	-	-	-	-	-
XII	Other & Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
a.	Other specified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Other unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		8	1	4	12	13	25	62.8	68.4	1.3	1.9	5	1	4	3	10	13	48.4	43.4

19. Village-wise Incidence and Mortality Cases: 2019-2020

Village-wise incidence and mortality cases registered in the years 2019-2020.

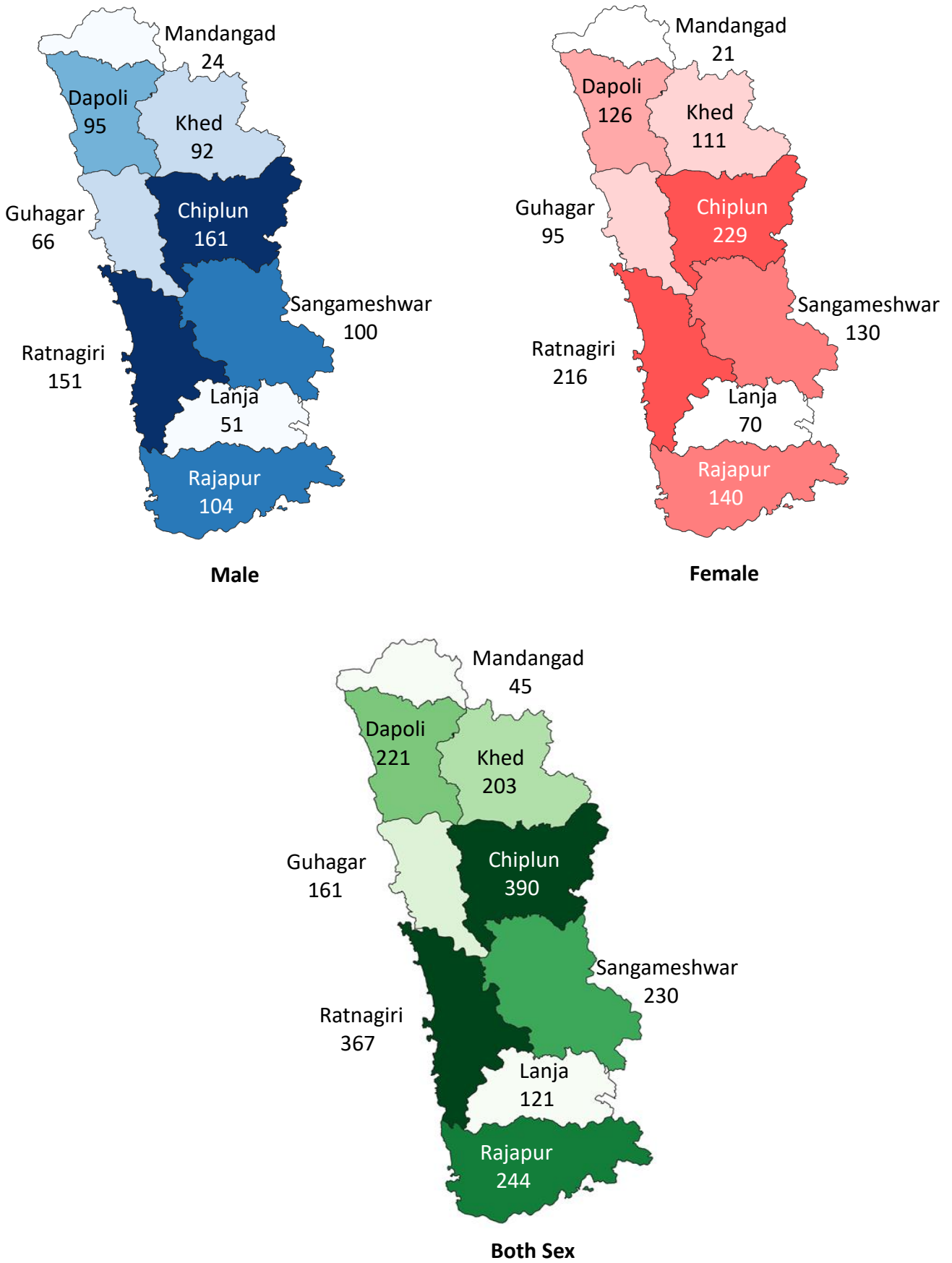
Cancer Incidence and Mortality cases: Ratnagiri PBCR 2019-2020 (Urban and Rural area)

Sr No	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Chiplun	161	229	390	115	136	251
2	Guhagar	66	95	161	57	52	109
3	Lanja	51	70	121	60	61	121
4	Rajapur	104	140	244	93	102	195
5	Devrukh-Sangmeshwar	100	130	230	80	90	170
6	Dapoli	95	126	221	70	99	169
7	Khed	92	111	203	57	62	119
8	Mandangad	24	21	45	23	23	46
9	Ratnagiri	151	216	367	133	125	258
10	Taluka Unknown	3	4	7	-	-	-
Total		847	1142	1989	688	750	1438

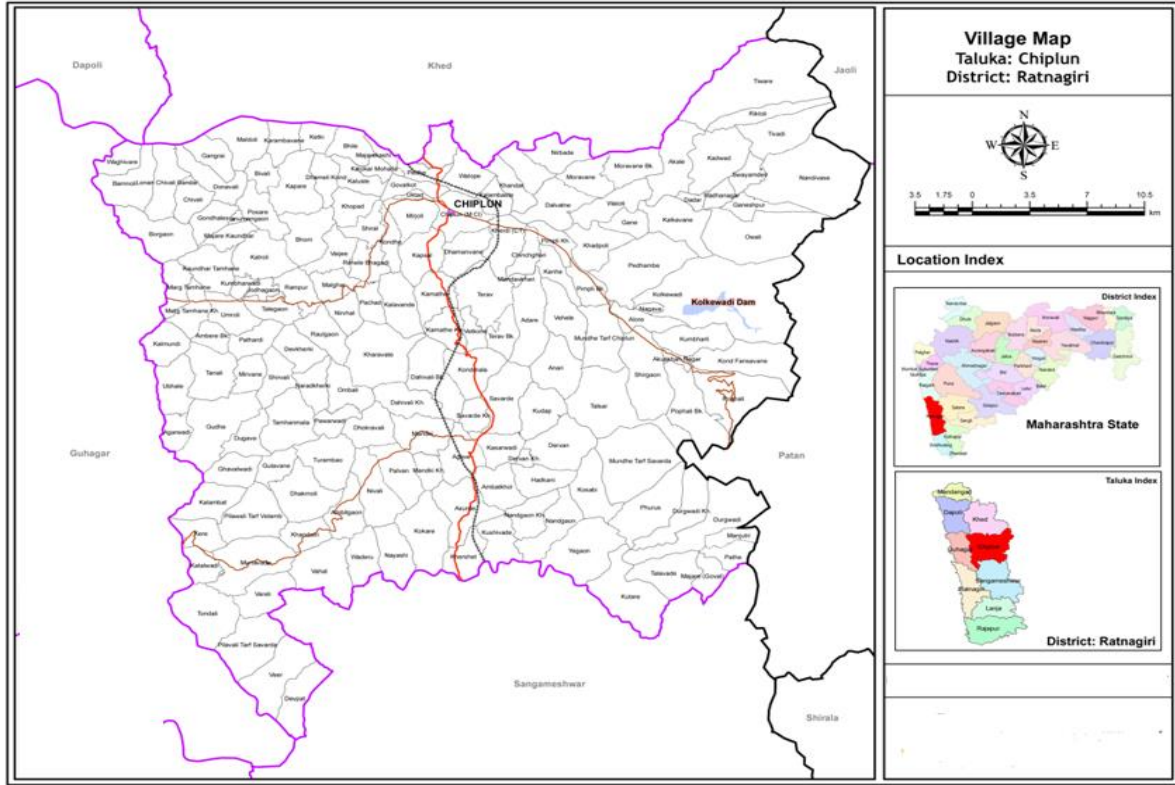
Cancer Incidence and Mortality Cases: Ratnagiri Urban Area (2019-2020)

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Chiplun (Urban)	25	57	82	21	37	58
2	Guhagar (Urban)	5	5	10	2	3	5
3	Lanja (Urban)	7	8	15	9	4	13
4	Rajapur (Urban)	5	4	9	5	3	8
5	Devrukh-Sangmeshwar(Urban)	9	14	23	7	10	17
6	Dapoli (Urban)	6	13	19	6	7	13
7	Khed (Urban)	13	16	29	4	2	6
8	Ratnagiri (Urban)	48	70	118	26	37	63
Total		118	187	305	80	103	183

Figure 36: Village-wise Male, Female and Both Sex Cancer Incidence Cases 2019-2020



Cancer Incidence and Mortality Cases: Chiplun Taluka, Ratnagiri PBCR 2019-2020



Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Adare	3	3	6	14	14	28
2	Agave	2	2	4	3	-	3
3	Akale	1	1	2	2	-	2
4	Alore	4	5	9	1	3	4
5	Ambatkhol	1	1	2	-	1	1
6	Ambere Bk.	1	1	2	1	-	1
7	Anari	-	1	1	1	-	1
8	Asurde	1	5	6	2	1	3
9	Bhile	-	1	1	-	-	-
10	Bivali	1	-	1	-	-	-
11	Borgaon	1	-	1	-	-	-
12	Chinchghari	1	2	3	-	-	-
13	Chiveli	-	1	1	2	2	4
14	Dahivali Bk.	1	-	1	-	-	-
15	Dahivali Kh.	1	2	3	1	1	2
16	Dervan	1	2	3	1	-	1
17	Devkherki	-	2	2	-	1	1
18	Dhamanvane	2	1	3	-	1	1
19	Dhameli Kond	-	2	2	-	1	1
20	Dhokravali	1	1	2	-	1	1

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
21	Donavali	2	1	3	3	-	3
22	Dugave	-	1	1	-	-	-
23	Durgwadi	1	1	2	-	-	-
24	Gangrai	-	-	-	1	-	1
25	Gondhale	-	1	1	-	1	1
26	Gudhe	2	1	3	2	1	3
27	Gulavane	-	1	1	-	-	-
28	Hadkani	-	1	1	-	-	-
29	Kadwad	1	-	1	1	-	1
30	Kalambaste	1	1	2	-	-	-
31	Kalambat	-	2	2	-	-	-
32	Kalavande	1	-	1	-	-	-
33	Kalkavane	-	1	1	-	-	-
34	Kalmundi	1	1	2	-	-	-
35	Kaluste	3	3	6	3	1	4
36	Kamathe	2	1	3	-	-	-
37	Kamathe Kh.	1	-	1	2	-	2
38	Kanhe	1	2	3	1	-	1
39	Kapare	-	-	-	-	2	2
40	Kapsal	3	4	7	1	-	1
41	Katroli	1	2	3	-	-	-
42	Kaundhar Tamhane	-	1	1	-	2	2
43	Kere	-	2	2	-	-	-
44	Ketki	-	-	-	-	1	1
45	Khadpoli	2	1	3	1	2	3
46	Khandat	3	2	5	-	1	1
47	Kharavate	-	4	4	-	1	1
48	Kherdi	10	11	21	4	6	10
49	Khershet	1	1	2	-	-	-
50	Kokare	3	1	4	1	2	3
51	Kolkewadi	2	5	7	1	3	4
52	Kond Fansavane	-	1	1	-	1	1
53	Kondhe	1	3	4	1	1	2
54	Kondmala	2	-	2	1	-	1
55	Kudap	-	3	3	1	-	1
56	Kumbharli	1	2	3	-	-	-
57	Kutare	1	1	2	1	1	2
58	Majare Kaundhar	-	1	1	-	-	-
59	Majarekashi	1	-	1	-	1	1
60	Maldoli	1	2	3	1	1	2
61	Malghar	-	1	1	-	-	-
62	Mandavkhari	-	1	1	-	-	-

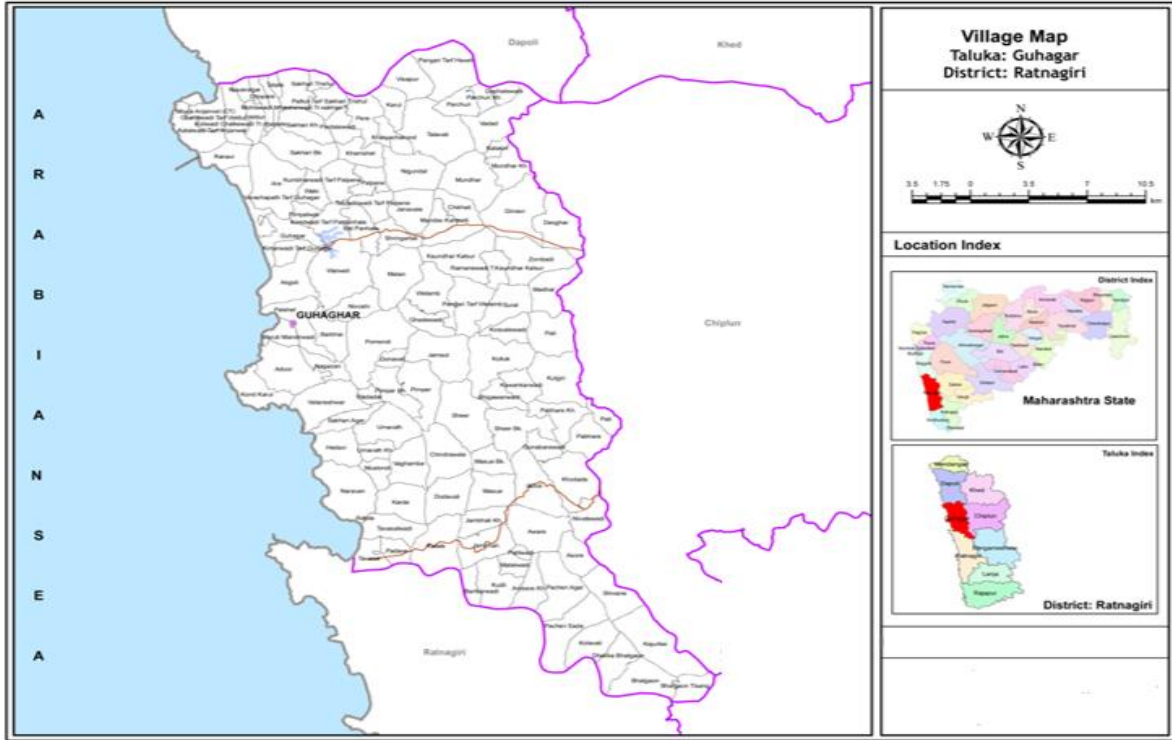
Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
63	Mandki Kh.	-	1	1	-	1	1
64	Marg Tamhane	3	4	7	1	2	3
65	Marg Tamhane Kh.	-	1	1	-	2	2
66	Mirjoli	1	1	2	1	2	3
67	Mirvane	1	1	2	-	-	-
68	Moravane	2	1	3	-	1	1
69	Mundhe Tarf Chiplun	1	2	3	-	1	1
70	Murtavade	2	1	3	1	-	1
71	Nandgaon	1	1	2	-	-	-
72	Nandgaon Kh.	2	2	4	2	-	2
73	Nandivase	1	1	2	1	-	1
74	Naradkherki	2	1	3	1	-	1
75	Nayashi	2	-	2	-	1	1
76	Nirbade	1	-	1	-	-	-
77	Nirvhal	1	-	1	-	1	1
78	Nivali	-	1	1	1	-	1
79	Ombali	1	-	1	1	-	1
80	Pachad	1	-	1	-	-	-
81	Pali	1	-	1	-	-	-
82	Palvan	1	-	1	-	1	1
83	Pedhambe	1	1	2	2	1	3
84	Pedhe	1	-	1	4	1	5
85	Pedhe Parshuram	1	3	4	-	1	1
86	Phurus	1	-	1	-	-	-
87	Pilavali Tarf Savarda	2	1	3	1	-	1
88	Pilawali Tarf Velamb	-	-	-	2	-	2
89	Pimpli Bk.	1	2	3	1	1	2
90	Pimpli Kh.	1	-	1	1	-	1
91	Pophali	5	1	6	4	5	9
92	Pophali Bk.	1	2	3	1	-	1
93	Posare	-	-	-	1	1	2
94	Radhanagar	-	-	-	-	1	1
95	Rampur	-	5	5	-	3	3
96	Riktoli	-	1	1	-	-	-
97	Savarde	7	12	19	2	3	5
98	Shiral	1	3	4	-	1	1
99	Shirgaon	5	4	9	1	3	4
100	Shirvali	-	3	3	-	1	1
101	Talsar	2	-	2	1	1	2
102	Tanali	-	1	1	-	-	-
103	Terav	1	-	1	1	-	1
104	Terav Bk.	1	1	2	-	1	1

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
105	Tivadi	-	1	1	-	-	-
106	Tiware	-	1	1	-	-	-
107	Tondali	1	1	2	-	1	1
108	Turambao	1	-	1	1	-	1
109	Ubhale	-	1	1	-	-	-
110	Umroli	1	1	2	-	-	-
111	Vahal	-	2	2	1	1	2
112	Vareli	-	1	1	-	-	-
113	Veer	4	-	4	1	3	4
114	Vehele	-	-	-	3	-	3
115	Waghivare	-	1	1	1	-	1
116	Walope	2	1	3	1	2	3
117	Waloti	-	2	2	-	1	1
118	Yegaon	2	2	4	1	1	2
	Total	161	229	390	115	136	251

Cancer Incidence and Mortality Cases: Guhagar Taluka, Ratnagiri PBCR 2019-2020



Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Abloli	2	2	4	1	-	1
2	Adoor	3	5	8	-	1	1
3	Ambere Kh.	-	1	1	-	-	-
4	Are	-	2	2	-	1	1
5	Asgoli	1	1	2	-	-	-
6	Bhatgaon Tisang	4	-	4	4	-	4
7	Chikhali	3	2	5	1	-	1
8	Chindrawale	-	1	1	-	1	1
9	Deoghar	1	-	1	-	-	-
10	Dhopave	2	1	3	-	-	-
11	Dodavali	-	3	3	-	2	2
12	Gimavi	2	1	3	16	19	35
13	Hedavi	2	2	4	1	-	1
14	Jambhali Kh.	-	-	-	1	-	1
15	Janavale	1	1	2	1	-	1
16	Kajurlee	1	-	1	2	-	2
17	Karde	1	-	1	1	-	1
18	Karul	1	-	1	-	-	-
19	Katale	-	1	1	-	-	-
20	Kaundhar Kalsur	-	-	-	-	1	1

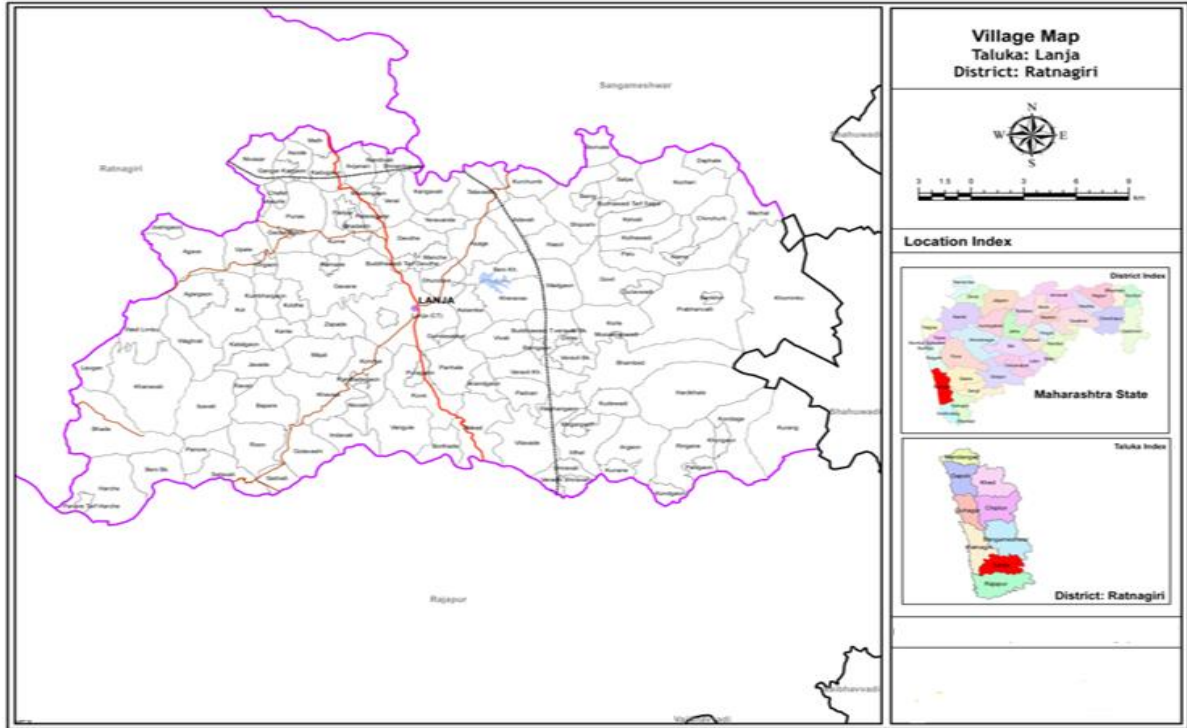
Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
21	Khamshet	1	-	1	-	-	-
22	Kharyachakond	-	1	1	-	-	-
23	Khodade	1	2	3	-	2	2
24	Kond Karul	-	3	3	-	1	1
25	Kotluk	-	2	2	-	1	1
26	Kudli	3	2	5	4	1	5
27	Malan	2	1	3	1	-	1
28	Masue	1	-	1	-	-	-
29	Masue Bk.	-	1	1	-	-	-
30	Mouje Anjanvel (Ct)	2	2	4	1	1	2
31	Mundhar	1	1	2	-	-	-
32	Mundhar Kh.	1	-	1	-	-	-
33	Naravan	1	2	3	1	1	2
34	Navanagar	1	1	2	-	-	-
35	Pabhare	1	3	4	-	3	3
36	Pacheri Agar	-	1	1	-	-	-
37	Pacheri Sada	-	2	2	-	1	1
38	Padave	2	6	8	1	2	3
39	Pali	1	-	1	1	-	1
40	Palkot Tarf Sakhari Trishul	-	1	1	-	-	-
41	Palpene	1	1	2	1	1	2
42	Palshet	2	3	5	1	-	1
43	Pangari Tarf Haveli	1	-	1	1	-	1
44	Pangari Tarf Welamb	-	1	1	-	-	-
45	Pat Panhale	4	-	4	2	-	2
46	Peth Anjanwel	-	1	1	-	1	1
47	Peve	1	2	3	2	1	3
48	Pimper	1	-	1	1	-	1
49	Pomendi	-	2	2	1	-	1
50	Sakhari Agar	-	3	3	-	1	1
51	Sakhari Bk.	1	-	1	1	-	1
52	Sakhari Trishul	1	1	2	1	-	1
53	Sheer Bk.	1	1	2	1	1	2
54	Shivane	-	2	2	-	1	1
55	Shringartali	1	2	3	1	1	2
56	Sural	1	1	2	2	-	2
57	Talavali	1	4	5	-	-	-
58	Tavasal	1	-	1	1	-	1
59	Velaneshwar	-	4	4	-	1	1
60	Veldur	-	1	1	-	1	1
61	Visapur	-	1	1	-	1	1

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
62	Warweli	1	1	2	1	-	1
63	Welamb	1	2	3	1	1	2
64	Zombadi	-	3	3	-	-	-
	Total	66	95	161	57	52	109

Cancer Incidence and Mortality Cases: Lanja Taluka, Ratnagiri PBCR 2019-2020



Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Adavali	-	1	1	1	3	4
2	Anjanari	-	1	1	-	1	1
3	Argaon	2	-	2	-	-	-
4	Asage	-	1	1	1	2	3
5	Asode	-	1	1	-	-	-
6	Baing	1	-	1	-	-	-
7	Bapere	1	1	2	3	1	4
8	Beni Bk.	1	2	3	1	2	3
9	Bhade	1	1	2	1	2	3
10	Bhambed	-	2	2	1	1	2
11	Borthade	1	-	1	1	-	1
12	Buddhawadi Tarf Devdhe	1	3	4	-	-	-
13	Devdhe	1	2	3	4	2	6
14	Gavane	-	2	2	-	3	3
15	Govil	2	-	2	2	-	2
16	Harche	1	-	1	-	-	-
17	Hardkhale	1	-	1	-	-	-
18	Hasol	-	-	-	-	1	1
19	Indavati	-	1	1	-	-	-
20	Javade	-	2	2	-	3	3

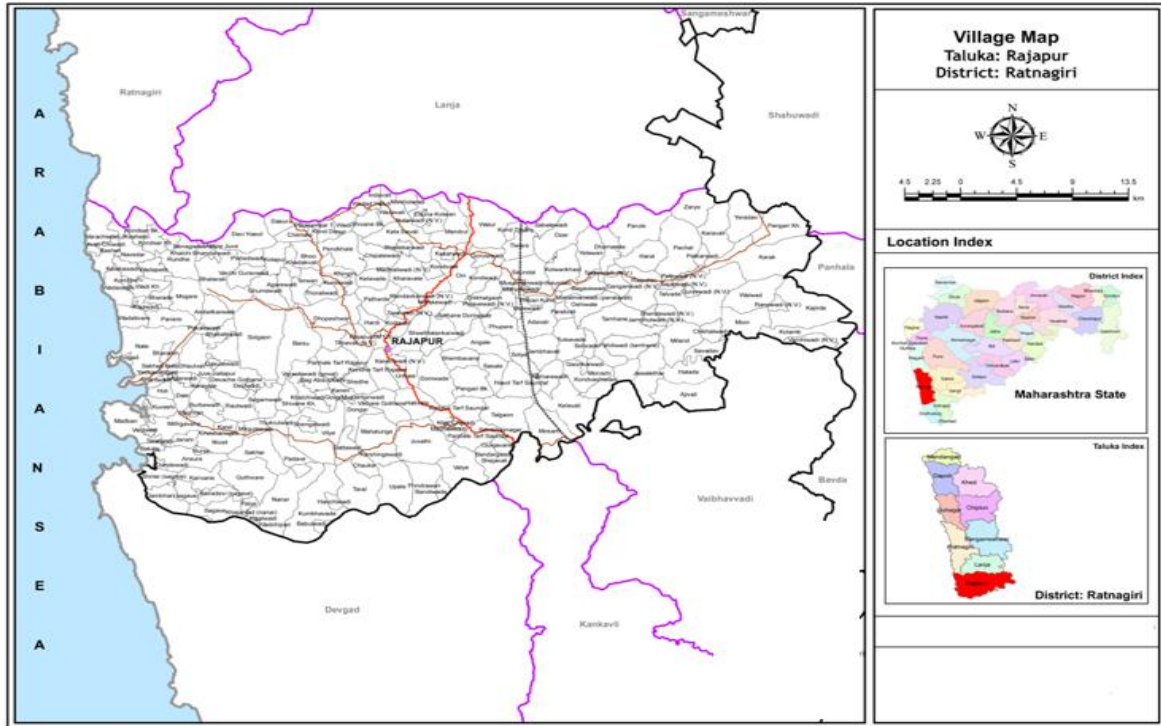
Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
21	Kangavali	-	-	-	1	-	1
22	Kante	-	-	-	1	-	1
23	Kelambe	-	1	1	-	-	-
24	Kelvali	-	1	1	1	1	2
25	Khanavali	-	-	-	-	2	2
26	Khavadi	-	3	3	-	3	3
27	Khorninko	-	1	1	-	1	1
28	Kochari	1	-	1	1	-	1
29	Kondage	1	1	2	1	1	2
30	Kondye	-	1	1	2	1	3
31	Korle	1	-	1	2	-	2
32	Kot	-	-	-	-	1	1
33	Kurchumb	-	-	-	1	-	1
34	Kurne	5	-	5	3	-	3
35	Kuve	1	-	1	-	-	-
36	Machal	-	1	1	-	-	-
37	Majal	2	-	2	2	-	2
38	Math	-	1	1	1	-	1
39	Nivasar	-	1	1	-	1	1
40	Nivoshi	-	-	-	1	-	1
41	Padvan	-	1	1	-	-	-
42	Palu	-	1	1	-	3	3
43	Panhale	1	-	1	-	-	-
44	Panore	1	1	2	1	1	2
45	Panore Tarf Harche	-	-	-	-	1	1
46	Pateregaon	-	1	1	-	1	1
47	Prabhanvalli	2	3	5	-	3	3
48	Punas	-	-	-	-	1	1
49	Puragaon	-	1	1	1	-	1
50	Ravari	-	1	1	-	-	-
51	Ringane	-	-	-	1	-	1
52	Roon	2	1	3	1	-	1
53	Salpe	-	1	1	-	1	1
54	Satavali	2	2	4	2	1	3
55	Shiposhi	1	-	1	-	-	-
56	Shiravali	2	-	2	1	1	2
57	Talavade	-	3	3	2	2	4
58	Upale	-	2	2	-	1	1
59	Vangule	2	-	2	1	-	1
60	Veral	2	4	6	3	2	5
61	Veravli Bk.	-	3	3	1	1	2

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
62	Veravli Kh.	2	2	4	3	2	5
63	Vivali	1	2	3	-	1	1
64	Wadgaon	-	-	-	1	-	1
65	Wadi Limbu	-	1	1	-	1	1
66	Waghangaon	-	-	-	-	1	1
67	Waghrat	-	1	1	-	-	-
68	Waked	1	-	1	1	1	2
69	Yeravande	1	-	1	-	-	-
Total		51	70	121	60	61	121

Cancer Incidence and Mortality Cases: Rajapur Taluka, Ratnagiri PBCR 2019-2020



Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Ajivali	-	1	1	-	-	-
2	Ambolgad	2	-	2	1	-	1
3	Angale	-	1	1	-	1	1
4	Ansure	2	2	4	-	2	2
5	Avali Chiwadi	-	-	-	1	2	3
6	Bag Abdul Kadir	-	1	1	-	1	1
7	Bagavewadi	1	-	1	-	-	-
8	Bakale	1	-	1	-	-	-
9	Bandiwade	-	1	1	-	-	-
10	Benagiwadi	-	-	-	-	1	1
11	Bhalavali	-	4	4	2	1	3
12	Bharade	1	-	1	1	-	1
13	Bhoo	3	1	4	2	-	2
14	Chavhanwadi	1	-	1	2	-	2
15	Chikhalgaon	-	-	-	-	2	2
16	Chuna Kolwan	1	1	2	1	2	3
17	Dandewadi	-	1	1	-	-	-
18	Devache Gothane	4	5	9	1	4	5
19	Devi Hasol	-	1	1	-	1	1
20	Devihadol	1	-	1	-	-	-

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
21	Dhaulvali	5	5	10	5	4	9
22	Dhopeswar	-	2	2	-	2	2
23	Dongar	1	1	2	1	-	1
24	Gothane Doniwade	2	-	2	2	1	3
25	Goval	-	1	1	1	2	3
26	Hardi	-	1	1	-	1	1
27	Hasol Tarf Saundal	-	1	1	-	-	-
28	Hatade	1	1	2	1	-	1
29	Hativale	1	1	2	-	-	-
30	Holi	-	1	1	1	1	2
31	Jaitapur	-	1	1	1	-	1
32	Jambhari(Sagave)	-	1	1	-	-	-
33	Jambhawali	1	-	1	1	-	1
34	Janshi	1	1	2	-	-	-
35	Jawalethar	-	1	1	-	1	1
36	Juvathi	3	1	4	2	1	3
37	Kajirda	1	-	1	1	-	1
38	Kalakawadi	-	1	1	-	1	1
39	Kalasavali	2	3	5	3	-	3
40	Kaneri	1	3	4	-	-	-
41	Kaneriwadi	-	1	1	-	1	1
42	Karavali	3	-	3	1	-	1
43	Kasheli	2	3	5	1	6	7
44	Katali	2	1	3	3	3	6
45	Kelavali	1	4	5	1	-	1
46	Khadakvalli	-	2	2	-	1	1
47	Kharavate	1	1	2	1	2	3
48	Khingini	3	-	3	1	-	1
49	Kodavali	-	2	2	-	3	3
50	Kolamb	-	-	-	-	1	1
51	Kombhe	1	1	2	1	1	2
52	Kond Tiware	1	-	1	1	-	1
53	Kondhe Tarf Rajapur	2	-	2	-	-	-
54	Kondsar Bk.	1	-	1	1	-	1
55	Kondsar Kh.	1	2	3	1	1	2
56	Kondvashiwadi	1	-	1	1	1	2
57	Kondye Tarf Saundal	-	6	6	1	6	7
58	Kumbhavade	4	1	5	1	-	1
59	Kunbiwadi	-	1	1	-	1	1
60	Kuveshi	-	-	-	1	1	2
61	Madban	-	-	-	1	-	1
62	Mahalunge	1	-	1	1	-	1

Ratnagiri District PBCR Report 2019-2020

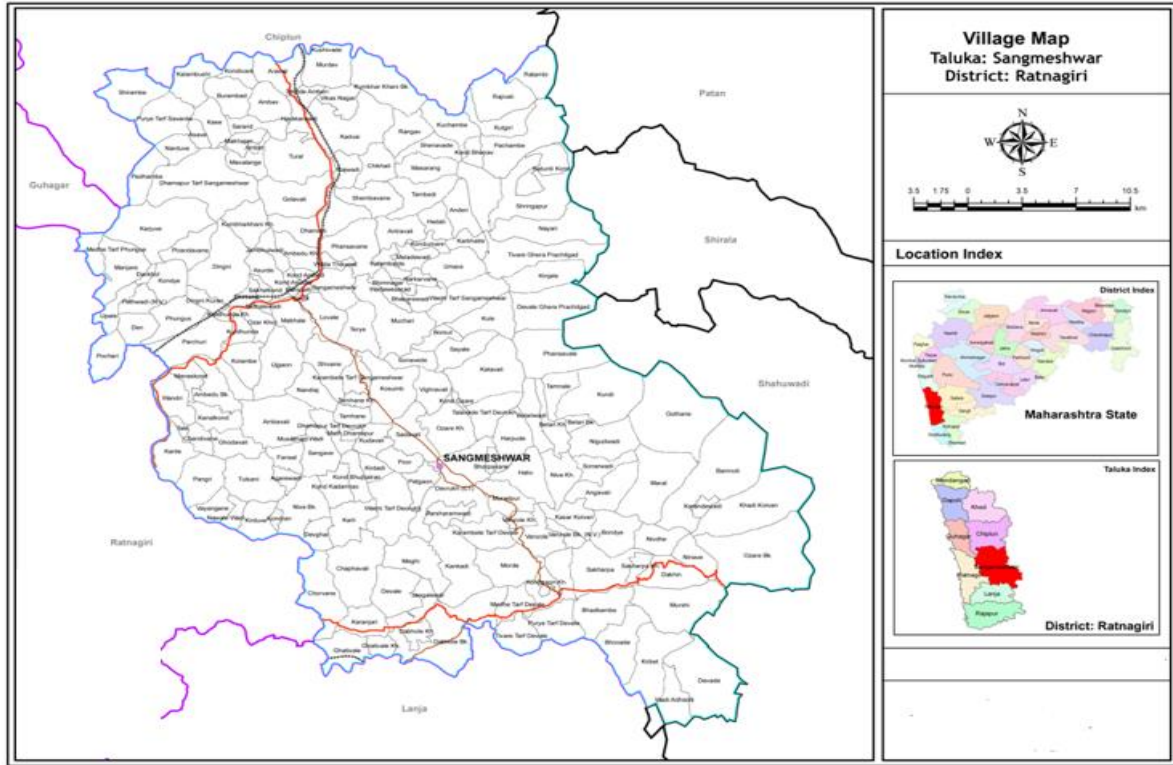
Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
63	Mandrul	-	1	1	-	1	1
64	Math Kh.	-	1	1	-	-	-
65	Miland	-	1	1	-	-	-
66	Mirgulewadi	-	1	1	-	1	1
67	Mithgavane	-	2	2	-	1	1
68	Moor	2	-	2	2	1	3
69	Musalmanwadi	1	-	1	1	-	1
70	Nanar	1	-	1	1	1	2
71	Nate	-	1	1	1	-	1
72	Navedar	-	2	2	-	-	-
73	Niveli	1	1	2	-	-	-
74	Oni	1	2	3	1	2	3
75	Oshiwale	1	1	2	-	-	-
76	Ozar	-	2	2	-	-	-
77	Pachal	-	1	1	2	1	3
78	Padave	-	2	2	-	1	1
79	Palye	-	1	1	-	1	1
80	Pangari Kh.	-	1	1	-	1	1
81	Panhale Tarf Rajapur	-	1	1	-	2	2
82	Panhale Tarf Saundal	-	1	1	-	-	-
83	Paratvali	-	2	2	-	1	1
84	Parule	1	-	1	1	-	1
85	Patharde	1	-	1	-	-	-
86	Pendkhale	-	2	2	-	1	1
87	Pishedwadi	-	1	1	-	-	-
88	Raipatan	1	1	2	1	-	1
89	Rajawadi	1	-	1	2	3	5
90	Sabalewadi	-	1	1	-	1	1
91	Sakhar	-	2	2	1	1	2
92	Sakhari Nate	2	2	4	5	3	8
93	Sasale	2	3	5	2	-	2
94	Saundal	1	-	1	1	1	2
95	Shedekarwadi	-	1	1	-	1	1
96	Shedhe	1	2	3	1	-	1
97	Sheel	2	1	3	3	1	4
98	Shejavali	1	-	1	-	-	-
99	Shembavane	2	1	3	2	1	3
100	Shivane Bk.	1	-	1	1	-	1
101	Shivane Kh.	-	1	1	-	1	1
102	Sogamwadi	1	1	2	1	-	1
103	Solgaon	3	2	5	2	1	3
104	Talvade	1	-	1	-	1	1

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
105	Tamhane	2	3	5	1	-	1
106	Taral	1	1	2	1	-	1
107	Terwan	1	1	2	-	1	1
108	Tulsavade	-	-	-	-	1	1
109	Tulsundewadi (Kuveshi)	2	1	3	2	1	3
110	Unhale	-	1	1	1	-	1
111	Upale	1	1	2	-	1	1
112	Valye	1	2	3	-	1	1
113	Vikhare Gothane	1	1	2	-	-	-
114	Vilye	-	2	2	-	-	-
115	Wadad Hasol	-	2	2	2	1	3
116	Wadapeth	2	2	4	2	1	3
117	Wadativare	-	1	1	-	-	-
118	Watul	-	1	1	-	1	1
119	Yelawan	-	-	-	-	1	1
120	Yeradav	-	1	1	-	1	1
121	Zarye	-	1	1	-	-	-
Total		104	140	244	93	102	195

Ratnagiri District PBCR Report 2019-2020

Cancer Incidence and Mortality Cases: Devrukh- Sangameshwar Taluka, Ratnagiri PBCR 2019-2020



Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Ambav	-	1	1	-	1	1
2	Ambavali	2	-	2	1	-	1
3	Ambedu Bk.	-	-	-	1	1	2
4	Ambedu Kh.	-	1	1	-	1	1
5	Anderi	1	-	1	-	-	-
6	Angavali	2	3	5	1	1	2
7	Antravali	3	-	3	-	-	-
8	Aravali	3	2	5	1	1	2
9	Bamnoli	-	1	1	-	1	1
10	Bhadkambe	-	-	-	-	2	2
11	Bhovade	-	-	-	-	1	1
12	Borsut	1	1	2	1	1	2
13	Burambad	3	2	5	2	3	5
14	Chaphavali	2	3	5	3	1	4
15	Chikhali	1	2	3	1	-	1
16	Dabhole Bk.	2	1	3	1	-	1
17	Dabhole Kh.	1	1	2	1	-	1
18	Devade	-	-	-	1	-	1
19	Devale	1	2	3	2	2	4
20	Devale Ghera Prachitgad	-	1	1	-	-	-

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
21	Dhamani	3	2	5	1	1	2
22	Dhamapur Tarf Sangameshwar	3	1	4	2	-	2
23	Dingni	-	2	2	1	2	3
24	Dingni Kuran	-	1	1	-	-	-
25	Ghativale	1	-	1	-	-	-
26	Ghativale Kh.	1	2	3	1	-	1
27	Ghodavali	-	1	1	-	-	-
28	Golavali	1	-	1	-	-	-
29	Hativ	-	2	2	-	1	1
30	Hedali	-	1	1	-	-	-
31	Kadvai	4	5	9	4	2	6
32	Kalambaste	-	3	3	-	-	-
33	Kalambushi	2	1	3	2	1	3
34	Kanalkond	-	-	-	1	-	1
35	Kankadi	1	1	2	1	2	3
36	Kante	-	1	1	-	-	-
37	Karambele Tarf Devale	-	-	-	-	1	1
38	Karambele Tarf Sangameshwar	-	2	2	1	1	2
39	Karjuve	2	-	2	-	-	-
40	Kasar Kolvan	-	-	-	1	1	2
41	Kase	-	1	1	-	-	-
42	Katavali	-	-	-	2	-	2
43	Kirbet	1	-	1	1	-	1
44	Kolambe	-	1	1	-	-	-
45	Kondivare	2	-	2	2	1	3
46	Kondran	-	2	2	-	-	-
47	Kosumb	-	3	3	-	2	2
48	Kuchambe	1	-	1	2	-	2
49	Kudavali	-	1	1	-	2	2
50	Kule	1	2	3	1	1	2
51	Kundi	-	1	1	-	1	1
52	Kurdhunda	-	1	1	-	1	1
53	Kutgiri	-	-	-	-	1	1
54	Lovale	-	1	1	1	3	4
55	Mabhale	-	-	-	1	-	1
56	Makhajan	3	3	6	1	-	1
57	Manaskond	-	1	1	-	2	2
58	Manjare	4	3	7	2	2	4
59	Maral	1	-	1	2	1	3
60	Mavalange	-	1	1	-	-	-
61	Medhe Tarf Devale	-	-	-	1	-	1

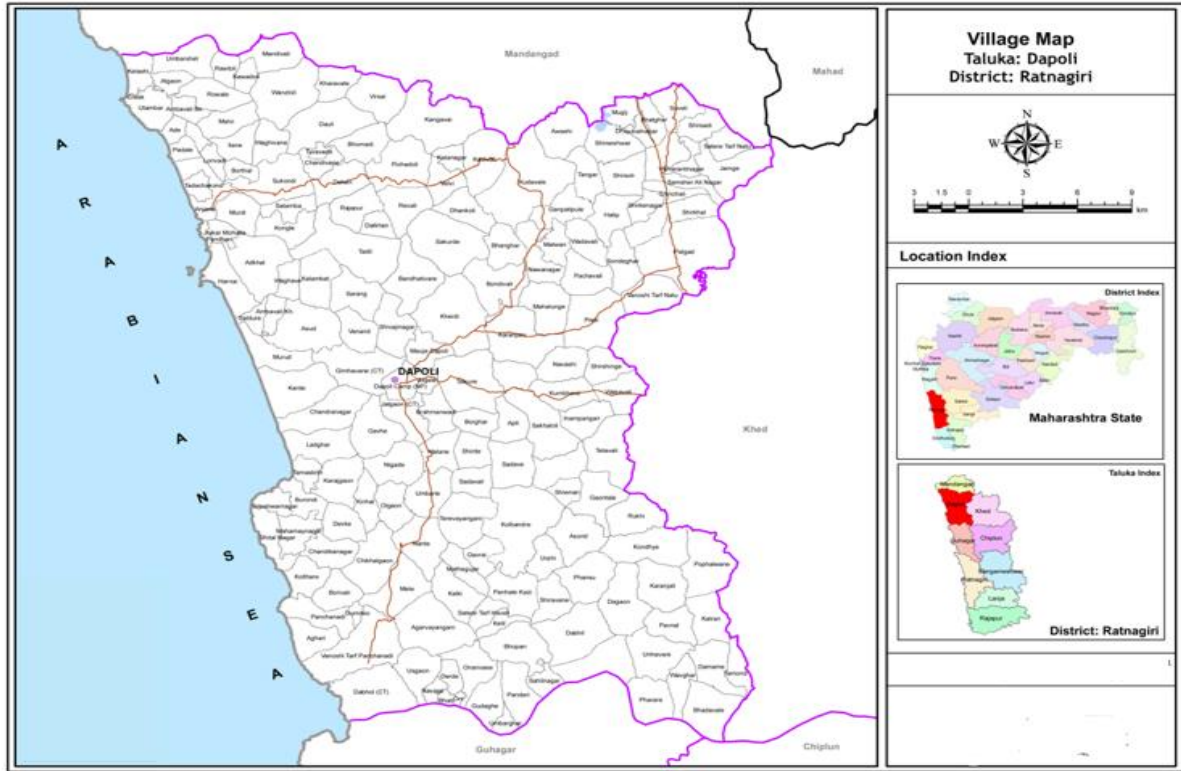
Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
62	Medhe Tarf Phungus	1	-	1	-	-	-
63	Meghi	1	1	2	3	1	4
64	Morde	1	-	1	1	-	1
65	Muchari	1	-	1	-	1	1
66	Muradpur	-	-	-	1	-	1
67	Murdav	3	1	4	1	-	1
68	Murshi	-	1	1	-	-	-
69	Nandlaj	-	1	1	-	1	1
70	Narduve	-	-	-	-	1	1
71	Navdi	2	3	5	1	-	1
72	Nayari	-	1	1	-	-	-
73	Nigudwadi	1	-	1	1	-	1
74	Nive Bk.	-	-	-	1	1	2
75	Ozare Bk.	-	1	1	-	-	-
76	Ozare Kh.	1	3	4	1	-	1
77	Pachambe	-	1	1	-	-	-
78	Pangri	-	1	1	-	1	1
79	Parchuri	2	-	2	1	-	1
80	Patgaon	1	1	2	-	1	1
81	Pedhambe	1	-	1	-	-	-
82	Phansavane	1	1	2	-	-	-
83	Phungus	2	-	2	2	-	2
84	Pirandavane	-	1	1	1	1	2
85	Poor	1	-	1	-	1	1
86	Purye Tarf Savarde	-	1	1	-	2	2
87	Rampeth	4	2	6	1	2	3
88	Rangav	1	2	3	-	-	-
89	Sadavali	-	3	3	1	3	4
90	Sakhalkond	1	-	1	1	-	1
91	Sakharpa	1	-	1	1	-	1
92	Sakharpa Kh.	-	1	1	-	1	1
93	Sangameshwar	-	-	-	1	1	2
94	Sangave	1	1	2	-	1	1
95	Sarand	1	2	3	-	1	1
96	Shembavane	-	1	1	-	2	2
97	Shenavade	1	1	2	-	-	-
98	Shivane	-	1	1	-	-	-
99	Sonavede	1	-	1	1	1	2
100	Songiri (N.V.)	1	1	2	2	-	2
101	Tale	1	1	2	-	1	1
102	Tambedi	1	-	1	-	-	-
103	Tamhane Kh.	-	1	1	-	1	1
104	Tamnale	-	2	2	-	-	-

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
105	Terye	-	1	1	-	2	2
106	Tivare Ghera Prachitgad	-	-	-	1	-	1
107	Tivare Tarf Devale	-	-	-	1	-	1
108	Tulsani	2	-	2	1	2	3
109	Tural	2	1	3	-	1	1
110	Ujgaon	-	1	1	-	-	-
111	Umare	-	2	2	-	-	-
112	Vanzole Bk.	-	-	-	-	1	1
113	Vayangane	1	-	1	-	1	1
114	Vighravali	-	1	1	-	-	-
115	Wadawesarad	-	-	-	1	-	1
116	Wandri	-	3	3	-	2	2
117	Washi Tarf Deorukh	-	1	1	-	-	-
118	Washi Tarf Sangameshwar	-	2	2	-	1	1
Total		100	130	230	80	90	170

Cancer Incidence and Mortality Cases: Dapoli Taluka, Ratnagiri PBCR 2019-2020



Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Ade	-	1	1	-	-	-
2	Adkhal	-	2	2	-	1	1
3	Agarvayangani	1	2	3	1	-	1
4	Aghari	1	-	1	1	-	1
5	Anjarla	1	3	4	1	1	2
6	Apti	-	1	1	1	1	2
7	Asond	-	-	-	-	1	1
8	Asud	1	2	3	-	-	-
9	Awashi	-	2	2	-	3	3
10	Bandhativare	1	-	1	1	-	1
11	Bhatghar	1	-	1	1	-	1
12	Bhati	1	-	1	1	-	1
13	Bhomadi	1	-	1	1	-	1
14	Bondivali	-	1	1	-	1	1
15	Borivali	1	-	1	1	-	1
16	Borthal	-	1	1	-	1	1
17	Brahmanwadi	-	2	2	-	-	-
18	Burondi	1	1	2	-	2	2
19	Chandivane	1	-	1	-	-	-
20	Chandranagar	1	-	1	1	-	1

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
21	Chikhargaon	-	-	-	-	1	1
22	Dabhil	1	-	1	-	-	-
23	Dabhol (Ct)	5	7	12	3	3	6
24	Dauli	-	1	1	-	-	-
25	Dehen	-	-	-	2	-	2
26	Devke	1	1	2	1	1	2
27	Dumdeo	1	-	1	-	-	-
28	Ganpatipule	1	-	1	-	-	-
29	Gavhe	-	1	1	-	1	1
30	Gimhavane	1	5	6	2	2	4
31	Gudaghe	1	1	2	1	-	1
32	Harnai	3	8	11	3	1	4
33	Hatip	-	2	2	-	2	2
34	Ilane	-	-	-	12	29	41
35	Inampangari	-	1	1	-	1	1
36	Jalgaon	5	9	14	2	3	5
37	Jamge	1	-	1	1	1	2
38	Kalambat	1	1	2	1	1	2
39	Kalanagar	-	1	1	-	-	-
40	Kangavai	1	1	2	1	1	2
41	Karajgaon	1	1	2	-	1	1
42	Karanjali	2	1	3	-	1	1
43	Karanjani	3	-	3	-	-	-
44	Karde	1	1	2	1	-	1
45	Katran	1	-	1	1	-	1
46	Kawadoli	-	1	1	-	-	-
47	Kelashi	-	4	4	-	-	-
48	Kelil	-	1	1	-	-	-
49	Kherdi	2	-	2	2	-	2
50	Kolbandre	2	2	4	1	1	2
51	Kolthare	2	1	3	1	1	2
52	Kondhye	-	1	1	-	1	1
53	Kudavale	-	-	-	1	-	1
54	Ladghar	1	1	2	-	-	-
55	Mahalunge	1	1	2	-	-	-
56	Malvi	-	2	2	-	1	1
57	Mandivali	1	1	2	-	-	-
58	Mathegujar	-	1	1	-	1	1
59	Matwan	1	-	1	-	-	-
60	Mugij	-	1	1	-	-	-
61	Murud	-	1	1	-	-	-
62	Nante	1	-	1	-	-	-
63	Nargoli	-	-	-	-	1	1

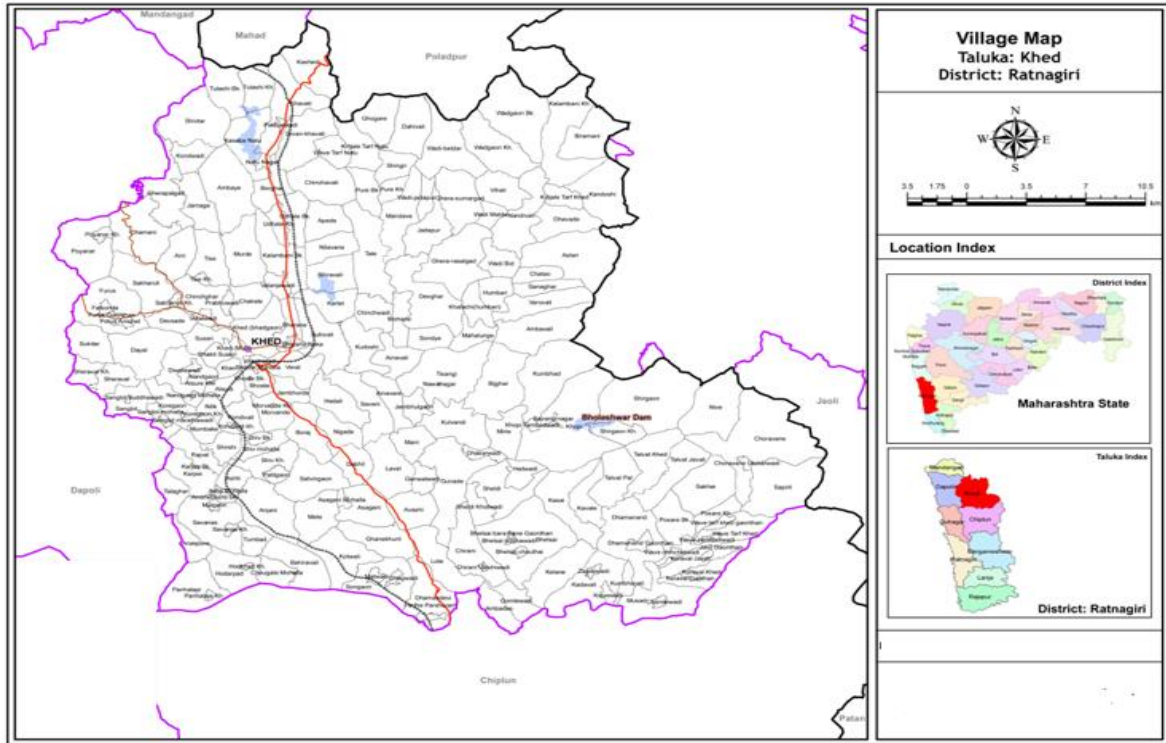
Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
64	Navase	-	1	1	-	1	1
65	Onanvase	1	1	2	-	-	-
66	Pachavali	-	1	1	-	1	1
67	Palgad	1	-	1	1	2	3
68	Panchanadi	2	2	4	1	3	4
69	Panderi	1	-	1	1	-	1
70	Pandhari	1	2	3	-	-	-
71	Pangari Tarf Haveli	1	-	1	1	-	1
72	Phansu	-	-	-	-	1	1
73	Pharare	1	1	2	-	1	1
74	Pisai	-	-	-	1	-	1
75	Pophalwane	-	2	2	-	2	2
76	Rawtoli	-	1	1	-	1	1
77	Revali	1	-	1	1	-	1
78	Rukhi	1	1	2	-	-	-
79	Sadave	1	1	2	1	-	1
80	Sakhaloli	-	3	3	-	3	3
81	Sakurde	2	-	2	1	-	1
82	Sarang	-	-	-	1	-	1
83	Shirde	1	-	1	-	-	-
84	Shirkhal	-	1	1	-	-	-
85	Shirsadi	2	-	2	2	-	2
86	Shirseshwar	1	-	1	-	-	-
87	Shirshinge	1	-	1	1	-	1
88	Shivajinagar	1	2	3	-	-	-
89	Sondeghar	-	-	-	-	1	1
90	Soveli	1	1	2	1	1	2
91	Tadil	2	1	3	1	-	1
92	Talsure	1	1	2	-	2	2
93	Tamastirth	-	2	2	-	2	2
94	Tangar	2	1	3	1	-	1
95	Tetavali	2	1	3	-	1	1
96	Umbarghar	-	-	-	1	1	2
97	Umbarle	-	1	1	-	-	-
98	Umbarshet	-	1	1	-	-	-
99	Urphi	-	1	1	-	-	-
100	Usgaon	-	1	1	-	-	-
101	Utambar	4	-	4	1	-	1
102	Vanand	-	1	1	-	-	-
103	Vanoshi Tarf Natu	1	-	1	-	1	1
104	Vanoshi Tarf Panchanadi	1	-	1	-	-	-
105	Velvi	-	-	-	1	-	1
106	Virvai	1	1	2	-	-	-

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
107	Visapur	1	-	1	-	-	-
108	Wakavali	-	1	1	-	-	-
109	Wanzloli	-	1	1	-	1	1
110	Wavghar	1	1	2	-	1	1
Total		95	126	221	70	99	169

Cancer Incidence and Mortality Cases: Khed Taluka, Ratnagiri PBCR 2019-2020



Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Ainavali	-	1	1	-	2	2
2	Ainavare	-	-	-	1	-	1
3	Aini	1	-	1	-	-	-
4	Alsure	-	1	1	1	1	2
5	Ambadas	2	1	3	2	1	3
6	Ambavali	-	1	1	-	1	1
7	Ambaye	1	-	1	-	-	-
8	Anjani	-	-	-	2	-	2
9	Asagani	-	-	-	1	-	1
10	Asagani Mohalla	-	-	-	-	1	1
11	Avashi	-	2	2	1	2	3
12	Bahiravali	-	2	2	-	-	-
13	Bharana Naka	1	-	1	-	-	-
14	Bharane	2	-	2	1	1	2
15	Bhelsai	1	-	1	1	-	1
16	Bhoste	2	-	2	-	-	-
17	Bhoste Bk.	-	1	1	-	-	-
18	Bijghar	1	-	1	1	-	1
19	Chakale	1	1	2	-	-	-
20	Chinchavali	1	-	1	-	-	-

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
21	Chinchghar	2	1	3	1	1	2
22	Chinchwadi	-	-	-	1	-	1
23	Choravane	1	1	2	1	-	1
24	Dabhil	1	-	1	-	-	-
25	Dahivali	-	1	1	-	1	1
26	Dayal	2	-	2	-	-	-
27	Devghar	-	2	2	-	1	1
28	Devsade	1	-	1	-	-	-
29	Dhamanand	1	1	2	-	-	-
30	Dhamandevi	-	1	1	1	2	3
31	Dhamani	2	-	2	-	1	1
32	Dhavade	1	-	1	1	-	1
33	Furus	2	1	3	-	1	1
34	Furus Amshet	1	2	3	1	2	3
35	Ghanekhunt	2	-	2	1	1	2
36	Gherapalgad	-	3	3	-	-	-
37	Ghera-Rasalgad	-	-	-	1	-	1
38	Ghogare	-	-	-	-	1	1
39	Gunade	1	-	1	1	-	1
40	Hedali	2	1	3	1	-	1
41	Hodkhad Kh.	1	-	1	-	-	-
42	Jaitapur	1	-	1	1	-	1
43	Jamage	-	1	1	-	1	1
44	Jambhurde	1	1	2	1	-	1
45	Kalambani Bk.	-	1	1	-	-	-
46	Karjee	-	2	2	-	-	-
47	Karjee Bk.	1	1	2	-	1	1
48	Kasai	-	2	2	-	2	2
49	Kelane	1	3	4	-	1	1
50	Khari	-	1	1	-	-	-
51	Khed (Bhadgaon)	-	1	1	-	-	-
52	Khopi	-	1	1	1	-	1
53	Khopi Tambadwadi	2	-	2	1	-	1
54	Kotwali	1	3	4	-	3	3
55	Kudoshi	1	-	1	-	-	-
56	Kulvandi	-	1	1	-	-	-
57	Lavel	2	3	5	-	-	-
58	Lote	2	4	6	1	-	1
59	Mandave	1	-	1	-	-	-
60	Mete	-	1	1	-	-	-
61	Mirle	-	1	1	-	-	-
62	Morvande	1	1	2	-	2	2

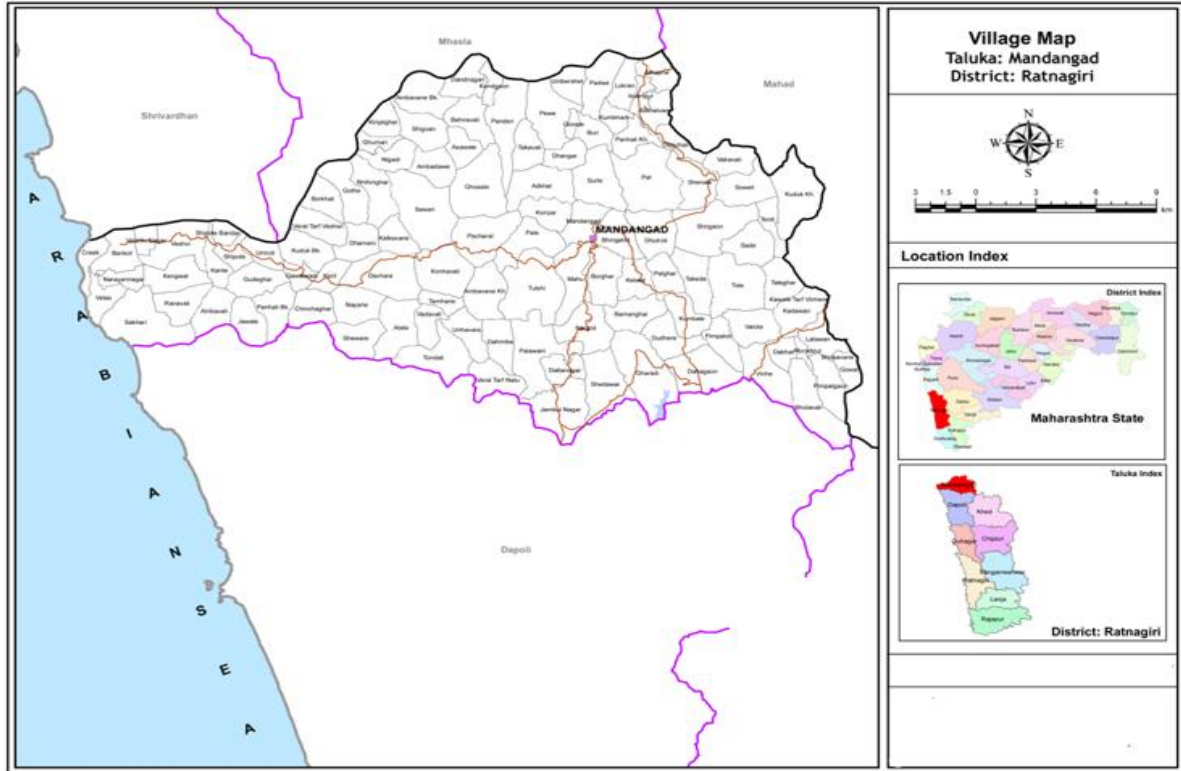
Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
63	Mumbake	-	2	2	-	2	2
64	Musad	1	1	2	2	1	3
65	Nandgaon	-	1	1	2	1	3
66	Nandgaon Mohalla	1	-	1	-	-	-
67	Nandivali	1	1	2	-	-	-
68	Nawanagar	-	-	-	-	1	1
69	Nigade	-	-	-	-	1	1
70	Panhalaje	1	-	1	-	-	-
71	Panhalaje Kh.	1	-	1	-	-	-
72	Patilgaon	1	-	1	-	-	-
73	Posare Bk.	-	-	-	-	1	1
74	Poyanar	-	2	2	-	-	-
75	Poyanar Kh.	-	2	2	-	-	-
76	Rajvel	-	1	1	-	-	-
77	Sakhar	-	1	1	1	-	1
78	Sakharoli Kh.	1	1	2	-	-	-
79	Sanglot	-	1	1	-	1	1
80	Sapirli	1	-	1	-	-	-
81	Satvingaon	-	1	1	-	-	-
82	Savanas	1	1	2	-	-	-
83	Savanas Kh.	1	-	1	-	-	-
84	Saveni	5	1	6	3	1	4
85	Sheldi	1	-	1	1	-	1
86	Shiravali	1	-	1	-	-	-
87	Shirgaon	2	1	3	3	1	4
88	Shirshi	-	1	1	-	1	1
89	Shiv Bk.	1	1	2	-	-	-
90	Shiv Kh.	1	-	1	1	-	1
91	Shivtar	-	3	3	-	2	2
92	Songaon	-	7	7	-	1	1
93	Sukdar	2	3	5	2	1	3
94	Sukivali	-	1	1	-	1	1
95	Suseri	-	3	3	9	11	20
96	Tale	3	-	3	1	-	1
97	Talvat Khed	1	-	1	-	-	-
98	Talvat Pal	-	1	1	-	1	1
99	Tisangi	2	2	4	-	-	-
100	Tise	-	1	1	-	-	-
101	Tumbad	-	1	1	-	-	-
102	Udhale Kh.	-	-	-	1	-	1
103	Varovali	-	1	1	-	1	1
104	Veral	1	1	2	-	1	1

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
105	Vihali	1	-	1	-	-	-
106	Wadgaon Bk.	1	-	1	-	-	-
107	Wave Tarf Khed	-	-	-	1	-	1
	Total	92	111	203	57	62	119

Cancer Incidence and Mortality Cases: Mandangad Taluka, Ratnagiri PBCR 2019-2020

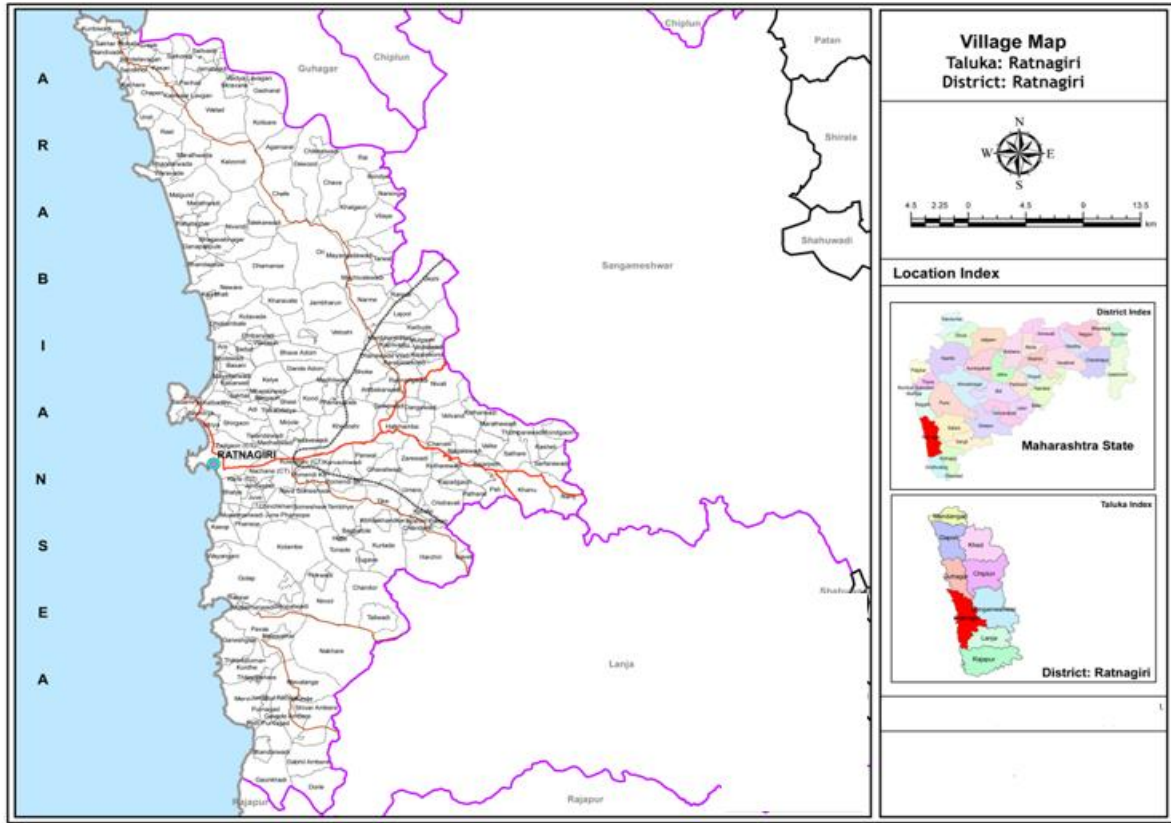


Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Ambavali	-	-	-	-	1	1
2	Ambavane Kh.	-	1	1	-	-	-
3	Atale	-	-	-	1	-	1
4	Bamanghar	1	-	1	1	-	1
5	Bholavali	-	1	1	1	-	1
6	Borghar	-	-	-	-	1	1
7	Dandnagari	1	1	2	1	-	1
8	Dhamani	-	1	1	-	1	1
9	Dhutroli	2	1	3	1	-	1
10	Dudhere	1	-	1	2	-	2
11	Ghosale	-	1	1	-	2	2
12	Jambul Nagar	1	-	1	1	-	1
13	Jawale	-	-	-	2	6	8
14	Kelwat	1	-	1	1	-	1
15	Kuduk Kh.	-	-	-	1	-	1
16	Kumbale	1	1	2	-	-	-
17	Kumbharli	1	-	1	2	-	2
18	Latawan	1	1	2	1	-	1
19	Lokarvan	-	1	1	-	-	-
20	Mahu	-	1	1	-	-	-

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
21	Mhapral	3	1	4	2	3	5
22	Narayannagar	-	1	1	-	1	1
23	Nargoli	1	-	1	-	-	-
24	Nigadi	-	1	1	-	1	1
25	Pale	1	-	1	-	-	-
26	Palghar	-	-	-	-	1	1
27	Panderi	1	-	1	1	-	1
28	Pat	-	2	2	-	1	1
29	Pimpalgaon	1	-	1	-	-	-
30	Sakhari	-	-	-	-	1	1
31	Shedawai	1	1	2	1	-	1
32	Shenale	1	1	2	2	-	2
33	Shipole	1	-	1	-	-	-
34	Shipole Bandar	-	1	1	-	-	-
35	Shirgaon	1	1	2	-	1	1
36	Soweli	1	-	1	-	-	-
37	Surle	1	-	1	-	-	-
38	Tide	-	-	-	-	2	2
39	Umroli	1	1	2	1	-	1
40	Vadavali	-	1	1	-	-	-
41	Vakavali	-	-	-	1	-	1
42	Velas	-	-	-	-	1	1
	Total	24	21	45	23	23	46

Cancer Incidence and Mortality Cases: Ratnagiri Taluka, Ratnagiri PBCR 2019-2020



Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Agarnaral	1	-	1	-	1	1
2	Are	1	-	1	-	-	-
3	Basani	-	-	-	1	-	1
4	Bhatye	5	3	8	3	4	7
5	Bhoke	1	-	1	1	1	2
6	Bondye	-	1	1	-	-	-
7	Chafe	1	1	2	3	1	4
8	Chanderai	-	-	-	1	1	2
9	Chandor	-	-	-	1	-	1
10	Chapheri	2	-	2	-	-	-
11	Charveli	-	1	1	-	-	-
12	Chidravali	-	2	2	-	2	2
13	Dande Adom	-	1	1	2	1	3
14	Dewood	-	-	-	-	1	1
15	Dhamanse	2	1	3	2	-	2
16	Dorle	-	1	1	-	-	-
17	Ganapatipule	1	1	2	1	2	3
18	Ganeshgule	-	2	2	-	-	-
19	Gaonkhadi	4	5	9	2	3	5
20	Gavade Ambere	-	4	4	1	2	3

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
21	Golap	1	2	3	3	1	4
22	Harchiri	1	1	2	1	-	1
23	Hatis	-	1	1	-	1	1
24	Hatkhamba	4	6	10	4	2	6
25	Ibrahim Pattan	2	-	2	3	-	3
26	Jaigad	3	2	5	-	3	3
27	Jakimiryra	-	-	-	2	1	3
28	Jambhari	1	1	2	-	-	-
29	Jambharun	-	-	-	1	1	2
30	Kalbadevi	1	-	1	1	-	1
31	Kalzondi	3	-	3	2	-	2
32	Kambale Lavgan	-	-	-	1	-	1
33	Kapadgaon	-	-	-	2	-	2
34	Karbude	1	5	6	1	4	5
35	Karvachiwadi	2	1	3	1	-	1
36	Kasarweli	2	-	2	4	1	5
37	Kasop	-	1	1	-	-	-
38	Kelye	3	2	5	1	-	1
39	Khalgaon	-	1	1	2	1	3
40	Khanu	2	3	5	2	3	5
41	Kharavate	-	1	1	-	1	1
42	Kharviwada	-	-	-	-	2	2
43	Khedoshi	2	6	8	-	3	3
44	Kolambe	-	2	2	-	1	1
45	Kolisare	1	2	3	-	1	1
46	Kotavade	2	2	4	-	4	4
47	Kurdhe	1	1	2	1	1	2
48	Kurtade	1	1	2	3	-	3
49	Kuwarbav (Ct)	4	4	8	3	1	4
50	Lajool	-	1	1	-	2	2
51	Majgaon	2	1	3	2	-	2
52	Malgund	3	3	6	1	1	2
53	Mavalange	2	3	5	1	1	2
54	Mervi	1	1	2	2	-	2
55	Miravane	-	2	2	-	-	-
56	Mirjole	1	5	6	2	2	4
57	Mirya Bandar	1	-	1	1	1	2
58	Nachane (Ct)	2	1	3	-	-	-
59	Nakhare	-	1	1	-	-	-
60	Nandivade	-	1	1	-	-	-
61	Nanij	1	2	3	1	2	3
62	Narbe	1	-	1	1	-	1
63	Natunde	-	-	-	-	1	1
64	Neware	1	6	7	-	1	1
65	Nirool	1	-	1	-	-	-
66	Nivali	1	2	3	5	4	9
67	Nivendi	1	6	7	-	2	2

Ratnagiri District PBCR Report 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
68	Ori	3	1	4	4	1	5
69	Pali	1	1	2	3	-	3
70	Panwal	-	-	-	1	-	1
71	Pavas	4	4	8	3	2	5
72	Phanasavale	-	2	2	-	3	3
73	Phansop	1	3	4	1	1	2
74	Pomendi Bk.	1	1	2	-	-	-
75	Pomendi Kh.	-	-	-	-	2	2
76	Ranpat	1	-	1	1	-	1
77	Saitvade	2	4	6	3	-	3
78	Sakhartar	2	1	3	2	-	2
79	Sandelavagan	-	2	2	-	1	1
80	Sathare	-	-	-	1	-	1
81	Satkondi	-	1	1	-	-	-
82	Shirgaon	3	2	5	2	2	4
83	Shivar Ambere	2	2	4	2	2	4
84	Someshwar	1	3	4	1	-	1
85	Tarwal	-	1	1	-	-	-
86	Tembhye	-	-	-	2	-	2
87	Thikanbehere	-	1	1	-	-	-
88	Tike	-	3	3	1	-	1
89	Tonade	-	1	1	-	-	-
90	Ukshi	-	1	1	-	1	1
91	Umare	1	-	1	1	-	1
92	Valke	1	-	1	-	-	-
93	Varavade	2	1	3	1	1	2
94	Vedrewadi	-	-	-	1	-	1
95	Vetoshi	-	3	3	1	2	3
96	Vilaye	1	-	1	-	-	-
97	Watad	2	4	6	3	2	5
98	Zadgaon (Ct)	1	1	2	-	-	-
99	Zarewadi	1	-	1	1	-	1
	Total	151	216	367	133	125	258

Cancer Incidence and Mortality Cases: Unknown Taluka, Ratnagiri PBCR 2019-2020

Sr No.	Village	Incidence 2019-2020			Mortality 2019-2020		
		Male	Female	Total	Male	Female	Total
1	Taluka Unknown	3	4	7	-	-	-
	Total	3	4	7	-	-	-


20. Paper presentation for IACR Conference

The Division of Medical Records and Cancer Registry presented the following research papers in the International Association of Cancer Registries (IACR) Conference which was held at Beijing, China for the years 2024.


Ten-Year Overall Survival of Testicular Cancer from Rural Cancer Registry, Ratnagiri, Maharashtra State, India.

Monika Sarade¹, Sandip Bhojane¹, Dipak Das¹, Suvarna Patil² and Atul Budukh^{1,3}


TEN-YEAR OVERALL SURVIVAL OF TESTICULAR CANCER FROM RURAL CANCER REGISTRY, RATNAGIRI, MAHARASHTRA STATE, INDIA
Monika Sarade¹, Sandip Bhojane¹, Dipak Das¹, Suvarna Patil², and Atul Budukh^{1,3}



1. Centre for Cancer Epidemiology (CCE), Tata Memorial Centre (TMC), Mumbai, India



2. Bhaktashreshtha Kamalakarpani Laxman Walewar (BKLW) Hospital, Dervan, Maharashtra, India



3. Homi Bhabha National Institute (HBNL), Mumbai, India

*Corresponding Author- monikasarade178@gmail.com

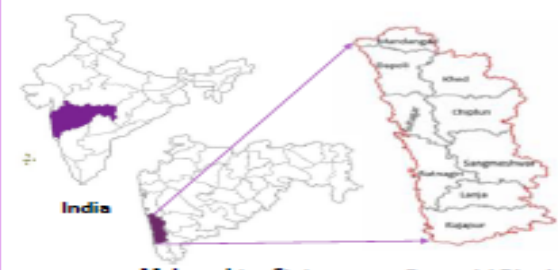
Background

- Ratnagiri PBCR was established in 2009, covering around 1.6 million population.
- Registry uses active method of case follow up and is updated regularly.
- Data are scarce on population-based testicular cancer survival, especially in rural areas of Maharashtra state, India.

Objective

We are presenting ten years survival of testicular cancer cases registered in Ratnagiri district of Maharashtra state, India for the period 2009-2018.

Registry Location



Methodology

- The major sources of cancer registry are Tata Memorial Centre (TMC) and BKLW Hospital (BKLW).
- Data was collected and entered in Canreg5 software and quality control was conducted by TMC, Mumbai.
- Follow-up was performed by house visits/phone calls by registry staff.
- For Testicular cancer survival analysis, the date of diagnosis is starting date and last follow-up date is December 31, 2023.
- The 5-year and 10-year overall survival was calculated using Kaplan Meier method and relative survival (RS) by Pohar Perme method.

Result

- The incidence and mortality rate of testicular cancer for Ratnagiri cancer registry 2009-2018 was 0.6 and 0.2 per 100,000 respectively.
- A total of 43 testicular cancer cases were registered of which, 27 (62.8%) were alive and 16 (37.2%) dead.
- 88.4% of cases completed treatment; the majority was treated at TMC and BKLW hospitals and are on regular follow-up.
- The 5 and 10-year age-standardized relative survival (ASRS) was 71% and 63.3% respectively.
- The survival by age group, stage, treatment types and treatment status is presented in Table 1.
- Testicular cancer 10-year overall survival and survival by treatment status is presented in Fig. 1 and 2 respectively.

Table 1: Ten-year overall survival of testicular cancer

Variables	Freqn n(%)	Observed Survival (%)				Relative Survival (%)				Hazard Ratio	p- value
		1 Year	3 Year	5 Year	10 Year	1 Year	3 Year	5 Year	10 Year		
Overall	43	81.4	72.1	69.8	61.1	81.6	72.8	71	63.3		
Age at diagnosis											
<40 Years	34	91.2	75.4	76.5	65.9	91.4	79.5	77.3	67.4	1	
≥40 Years	9	44.4	44.4	44.4	44.4	44.5	45.1	45.8	45.8	2.9	0.048
Stage											
Localised*	8	100	100	100	100	100	100	100	100	2.4	
Loco-regional	16	68.8	68.8	68.8	45.8	68.9	69.3	69.3	47.1	1	
Distant-metastasis	8	87.5	75	62.5	62.5	87.7	75.5	63.2	63.2	2.3	0.512
Unknown	11	81.8	54.6	54.6	54.6	82.2	55.6	56	56	0.9	0.867
Types of treatment											
Surgery	6	83.3	80.7	80.7	80.7	83.6	87.5	87.5	87.5	1	
Surgery+CT	25	92	84	80	63.7	92.3	84.8	81.3	65.4	0.9	0.884
Surgery+RT	10	70	60	60	60	70.2	68.6	60.6	68.6	1.2	0.812
+CT/ Surgery+RT /CT	2	0	0	0	0	0	0	0	0		
No treatment*	2	0	0	0	0	0	0	0	0		
Treatment status											
Complete	38	88.5	79	76.1	66.4	88.7	79.7	77.6	68.8	1	
Incomplete	5	20	20	20	20	20.1	20.1	20.1	20.1	7.0	0.001

*Omitted from the Cox proportional hazards model due to the absence of events in either the alive or death category.

Fig. 1: Ten-year overall survival of testicular cancer

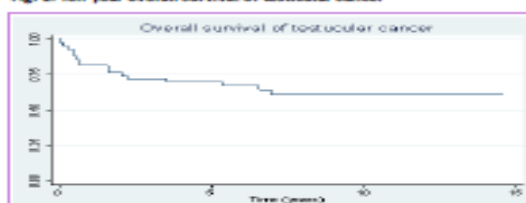
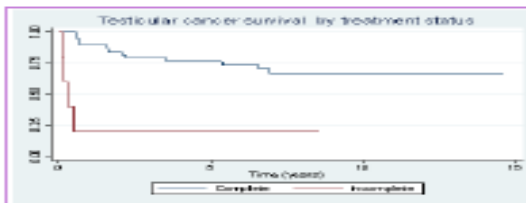


Fig. 2: Ten-year survival of testicular cancer by treatment status

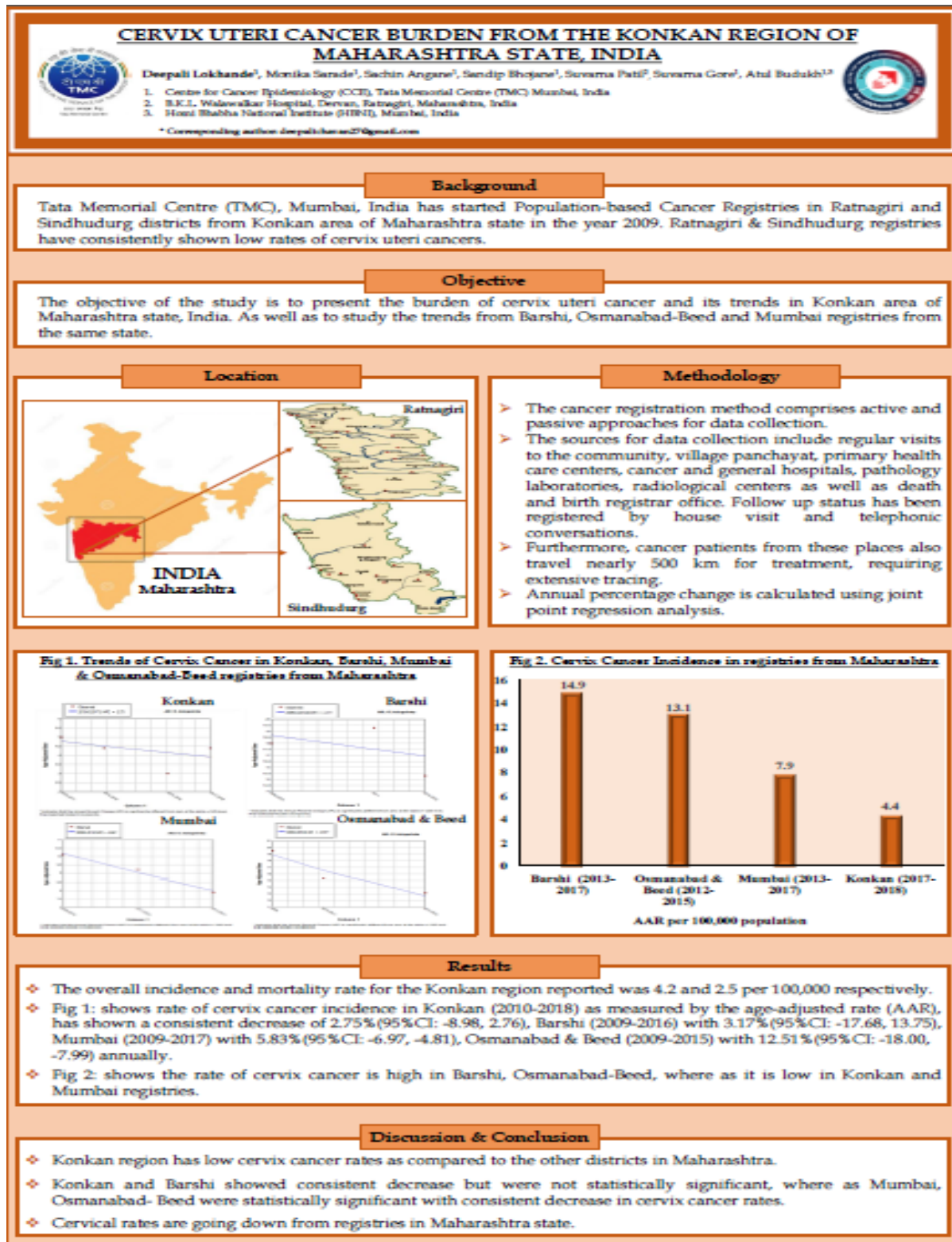


Discussion and Conclusion

- The overall survival of Testicular cancer reported from the Ratnagiri registry is higher than the Mumbai cancer registry; however, it is lower than SEER Cancer Registries.
- The long-term overall testicular cancer survival is in comparison with other Asian countries.
- Stage and treatment are important prognostic factors for the long-term survival of testicular cancer.


Cervix Uteri Cancer Burden from the Konknan Region of Maharashtra State, India.

Deepali Lokhande¹, Monika Sarade¹, Sachin Angane¹, Sandip Bhojane¹, Suvarna Patil², Suvarna Gore¹ and Atul Budukh^{1,3}



Burden of Non-Hodgkins Lymphoma in Adolescents, Young Adults (AYA), and Elderly in Konkan Region Maharashtra, India.


Narpat Padvi¹, Deepali Lokhande¹, Monika Sarade¹, Sandip Bhojane¹, Sachin Angane¹, Suvarna Patil³ and Atul Budukh^{1,3}.



BURDEN OF NON-HODGKINS LYMPHOMA IN ADOLESCENTS, YOUNG ADULTS (AYA), AND ELDERLY IN KONKAN REGION, MAHARASHTRA, INDIA.

Narpat Padvi¹, Deepali Lokhande¹, Monika Sarade¹, Sandip Bhojane¹, Sachin Angane¹, Suvarna Patil³, Atul Budukh^{1,2}

1. Centre for Cancer Epidemiology, ACTREC, Navi Mumbai, Maharashtra, India.
 2. Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai 400094, India.
 3. B.K.L. Wakalkar Hospital, Dervan, Ratnagiri, Maharashtra India.
 *Corresponding author- narpatpadvi19@gmail.com



INTRODUCTION

- Non-Hodgkin's lymphoma (NHL) is a common hematological malignancy. In 2022, the NHL ranked 11th in cancer incidence and 13th in cancer mortality in India.

- The overall mortality rate was 0.7 per 100000 (male 1.1, female 0.4 per 100,000).
- In the Konkan region, males aged 40 years and above had significantly higher incidence and mortality rate as compared to those aged 15-39 years: RR 4.9, (95% CI 1.7-13.7) and RR 7.0, (95% CI 1.7-29.5) respectively.
- Similarly, females above 40 and above years had a greater rate of both incidence and mortality as compared to females aged 15-39 years with RR 4.9 (95% CI 0.4-6.4), and RR 7.4 (95% CI 0.9-60.5) respectively. Details are presented in Tables 2 and 3.
- In the Konkan region, the most predominant cancers in both sexes are malignant lymphoma, large B-cell, diffuse, NOS followed by Malignant lymphoma, NHL, and NOS.

OBJECTIVE

- To study the burden of Non-Hodgkins lymphoma in adolescents, young adults (AYA), and elderly in the Konkan region, Maharashtra, India.

Table 1: NHL cancer cases and death cases in Konkan, 2010-2018

	Cancer Case	Death
Male	201	138
Female	102	57

METHODOLOGY

- Data was collected from two cancer registries in the Konkan region covering Ratnagiri and Sindhudurg for years 2010-2018 covering Populations of 1.6 and 0.8 million respectively.
- Data from different sources was collected by regular visits to the community, village panchayat, primary health care centers, cancer and general hospitals along with pathology laboratories, radiological centers as well as death and birth registrar office.
- The collected data is scrutinized by the senior staff and verified data is entered into the CanReg5 software.
- Age-adjusted rate (AAR), rate ratio (RR), and mortality rate were computed based on age and sex, with 95% Confidence Intervals (CI) using Excel. The rate ratio was calculated using the methods established by Boyle and Parkin, 1991.
- Age groups 15-39 were considered as Adolescents and Young Adults (AYA) and age groups 40-75+ as 'Elderly'.

Table 2: Incidence and mortality rate of NHL cancer among males, 2010-2018

Age group	Incidence			Mortality		
	AAR	SE	RR (CI)	AAR	SE	RR (CI)
40-75+	4.0	1.0	4.9 (1.7-13.7)	2.9	0.8	7.0 (1.8-27.8)
15-39	0.8	0.4		0.4	0.3	

REGISTRY LOCATION




Figure 1: Registry Location (Konkan region)

Table 3: Incidence and mortality rate of NHL cancer among females, 2010-2018

Age group	Incidence			Mortality		
	AAR	SE	RR (CI)	AAR	SE	RR (CI)
40-75+	1.8	1.1	4.9 (0.4-6.4)	1.1	0.5	7.4 (0.9-60.5)
15-39	0.4	0.3		0.1	0.2	

RESULT

- A total of 303 NHL cases; male 201 (66.3%), female 102 (33.6%) were registered in the Konkan region. Details presented in Table 1.
- Overall NHL age-adjusted incidence rate was 1.2 per 100000 (male: 1.7, Female: 0.8 per 100,000).

DISCUSSION AND CONCLUSION

- The findings underscore the epidemiological significance of NHL in the Konkan region.
- NHL is a rare malignancy, however, as compared to AYA rates are higher among the elderly, and similar observations are seen for mortality of NHL.
- Understanding the patterns and risk factors correlated with NHL is essential for influencing public health strategies and enhancing initiatives to mitigate the impact of this disease on afflicted communities.

21. Achievements

Ratnagiri PBCR dataset was used for publications are below.

1. Shivshankar S, Sarade M, Bhojane S, Kolekar S, Patil S, Budukh A. **Quality assessment of a rural population-based cancer registry (PBCR) at Ratnagiri, Maharashtra, India** for the years 2017-18. *Ecancermedicalscience*. 2024 Feb 21;18:1672. PMID: 38439807; PMCID: PMC10911674.
2. Bagal S, Budukh A, Thakur JS, Dora T, Qayyumi B, Khanna D, Fernandes D, Chakravarti P, Singh R, Patil S, Dikshit R, Chaturvedi P. **Head and neck cancer burden in India: an analysis from published data of 37 population-based cancer registries**. *Ecancermedicalscience*. 2023 Sep 21;17:1603. doi: 10.3332/ecancer.2023.1603. PMID: 37799939; PMCID: PMC10550331.
3. National Cancer Registry Programme Investigator Group. **Cancer Incidence and Mortality Across 43 Cancer Registries in India**. *JAMA Netw Open*. 2025;8(8): e2527805. doi:10.1001/jamanetworkopen.2025.27805
4. Monika Sarade, Dipak Das, Sharyu Mhamane, Sandip Bhojane, Suvarna Patil, Shripad Banavali, Gagan Prakash and Atul Budukh. **Long-term overall survival of testicular cancer: findings from a rural population-based cancer registry, Ratnagiri district, Maharashtra state, India**. *ecancer* 2025, 19:2080 <https://doi.org/10.3332/ecancer.2080>
5. Suyash Agate, Suvarna Patil, Monika Sarade, Deepali Lokhande, Sandip Bhojane, Sachin Angane, Dipak Das, Shripad Banavali, Pankaj Chaturvedi, Atul Budukh **Overall survival of oral cancer from the population-based cancer registries of the Konkan area, Maharashtra, India**. *BMC Cancer* (10.1186/s12885-026-15689-w)
6. Ratnagiri cancer incidence data (2010-2016) projected to 2022 was used for India in **Global Cancer Observatory 2022**. Available online <https://gco.iarc.who.int/today/en>

22. References

1. Census of India 2011 (<https://www.censusindia.co.in/states/maharashtra>) downloaded on June 2025.
2. Canreg5 Open Source Software: International Agency for Research on Cancer Lyon, France.
3. Sarade M, Bhojne S, Lokhande D, Patil S, Patil N, Banavali S, Budukh A, Dikshit R and Badwe R, Cancer Incidence and Mortality in Ratnagiri district, Maharashtra, India (2017-2018), Tata Memorial Centre, Mumbai.
4. Lokhande D, Sarade M, Bhise M, Patil S, Patil N, Banavali S, Budukh A M, Dikshit R, Badwe R A. Cancer Incidence and Mortality in Sindhudurg District, Maharashtra State, India: 2017-2018 Tata Memorial Centre (TMC), Mumbai
5. Saoba S, Fernandes D, Budukh A M, Chaturvedi P, Dikshit R A, Mahantshetty U, Badwe R, Gupta S. Cancer Incidence and Mortality in Visakhapatnam District, Andhra Pradesh State, India: 2017 – 2018. Tata Memorial Centre (TMC), Mumbai, India.
6. Budukh A, Bagal S, Gupta D, Pandey N, Singh R, Prabhash K, Chaturvedi P, Dikshit R, Badwe RA, and Gupta S. Cancer Incidence and Mortality in Muzaffarpur, Bihar state, India: 2019-2021. Tata Memorial Centre (TMC), Mumbai, India 2024.
7. Budukh A, Khanna D, Bagal S, Sharma A, Vishwakarma R, Pradhan S, Chaturvedi P, Dikshit R and Badwe R. Cancer Incidence and Mortality in Varanasi District, Uttar Pradesh, India: 2018-2019. Tata Memorial Centre, Mumbai, India 2022.
8. Gulia A, Budukh A, Chaturvedi P, Dikshit R, Badwe R, and Gupta S. Cancer Incidence and Mortality in Mansa District, Punjab, India: 2019-2020. Tata Memorial Centre (TMC), Mumbai, India 2024.
9. Gulia A, Budukh A, Chaturvedi P, Dikshit R, Badwe R, and Gupta S. Cancer Incidence and Mortality in Sangrur District, Punjab, India: 2019-2020. Tata Memorial Centre (TMC), Mumbai, India 2024.
10. Budukh A, Bagal S, Gupta D, Pandey N, Singh R, Prabhash K, Chaturvedi P, Dikshit R, Badwe RA, and Gupta S. Cancer Incidence and Mortality in Muzaffarpur, Bihar state, India: 2019-2021. Tata Memorial Centre (TMC), Mumbai, India 2024.
11. Budukh A, Swain SK, Dash B, Saoba S, Bagal S, Nayak L, Chaturvedi P, Dikshit R, Badwe RA, and Gupta S. Cancer Incidence and Mortality in Khordha District, Odisha state, India: 2022 Tata Memorial Centre (TMC), Mumbai, India 2025.
12. Report of National Cancer Registry Programme – Indian Council of Medical Research: 2012-2016, Bengaluru (2020). https://ncdirindia.org/All_Reports/PBCR_Annexures/Default.apx, accessed on June 2025.
13. International Classification of Diseases for Oncology – Third edition: WHO, Geneva 2000.

14. International Incidence of Childhood Cancer 3 – indicators of data quality: IARC – WHO, Lyon, France <https://iicc.iarc.fr/results/introduction/qualityindicators.pdf> Accessed June 2025.
15. International Incidence of Childhood Cancer Volume III <https://iicc.iarc.fr/results/registry-specific-tables/> Accessed June 2025.
16. Bray F, Colombet M, Aitken JF, Bardot A, Eser S, Galceran J, Hagenimana M, Matsuda T, Mery L, Piñeros M, Soerjomataram I, de Vries E, Wiggins C, Won Y-J, Znaor A, Ferlay J, editors (2023). Cancer Incidence in Five Continents, Vol. XII (IARC CancerBase No. 19). Lyon: International Agency for Research on Cancer. Available from: <https://ci5.iarc.who.int>, Accessed June 2025.
17. Ferlay J, Ervik M, Lam F, Laversanne M, Colombet M, Mery L, Piñeros M, Znaor A, Soerjomataram I, Bray F (2024). Global Cancer Observatory: Cancer Today (version 1.1). Lyon, France: International Agency for Research on Cancer. Available from: <https://gco.iarc.who.int/today>, Accessed June 2025.
18. <https://mrsac.gov.in/MRSAC/map/map>, Accessed June 2025.
19. Office of the Registrar General & Census Commissioner, India. (2011). A-02: Decadal variation in population 1901–2011, Maharashtra (Ratnagiri District). Ministry of Home Affairs. Retrieved from: <https://censusindia.gov.in/nada/index.php/catalog/43360>.

23. Acknowledgements

The Ratnagiri population-based Cancer registry (PBCR) is grateful to various hospitals administrators, pathology laboratories, medical specialists in private practice, village panchayats, community leaders, Sarpanch, ASHA workers, Anganwadi workers, ANMs and primary health centres who have co-operated with us by permitting our field investigators to collect the data on cancer patients under their care.

The various pathology laboratories and their respective pathologists, private and public hospitals, nursing homes, diagnostic centres, deserve special mention, and we sincerely thank them for permitting us to utilize their records.

We acknowledge the support and cooperation of the Health Department and Village authorities in the successful completion of this work. District Health Office, Primary Health Centres (PHC), Sub-Centres and all healthcare staff for their assistance in data collection, verification and coordination. Their dedication and timely support greatly contributed to the accuracy and completeness of the registry report.

We extend our sincere thanks to the BKLW Hospital for providing office infrastructure and other necessary administrative support.

Finally, the Registry staff, Consultants and Volunteers are highly appreciated for their diligence and enthusiasm in the collection and processing the data on which this report is based.

This work was made possible due to the institutional support and guidance of the Director of Tata Memorial Centre (TMC), Tata Memorial Hospital (TMH), Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), and Centre for Cancer Epidemiology (CCE).

The Population-Based Cancer Registry Ratnagiri District gratefully acknowledges the following dignitaries and institutions for their valuable support.

District Collector, Ratnagiri

Mr. M. Devender Singh

Civil Hospital, Ratnagiri

Dr. Bhaskar Jagtap, Civil Surgeon
Dr. Yash Prasade, District Programme Co-ordinator, NRHM
Dr. Uttamrao Kamble, NCD Centre, Ratnagiri

Dr. Ghanekar Hospital & Oncology Centre, Chiplun

Dr. Vikram Ghanekar, Onco Surgeon

Onco-Lifecare Cancer Centre, Mirjoli, Chiplun

Dr. Ishaq Khatib, Medical Director
Dr. Shahid Pardesi, Medical Superintendent
Dr. Ketan Kalariya, Radiation Oncologist

D.H.O. Ratnagiri

Dr. Aniruddha Athalye

Sub District Government Hospital, Kamthe

Dr. Asitkumar Narwade

Dr. Kanchan Madar

CEO, Nagarparishad

Mr. Tushar Waghore, Ratnagiri

Mr. Vishal Bhosle, Chiplun

Mr. Tushar Babar, Rajapur

Taluka Health Officer (THO)

Dr. Jyoti Yadav, Chiplun

Dr. Ghanshyam Phulchand Jangid, Guhagar

Dr. Prashantkumar Parage, Lanja

Dr. Akshay Kamle, Dr. Balaji Lokare, Rajapur

Dr. Govind More, Sangmeshwar

Dr. Amit Vanjare, Dapoli

Dr. Abhishek Gavande, Mandangad

Dr. Maheshwari Satav, Ratnagiri

Dr. Shailesh Kharatmol, Khed

Rural Hospital (RH)

Dr. Balwant, Guhagar

Dr. Satish Raosaheb Patil, M. O. Lanja

Dr. Ramchandra Mestry, M. O. Rajapur

Dr. Rupali Naik, Dental Dept, Sangmeshwar

Block Development Officer

Mr. Tukaram Jadhav, Rajapur

ICDS (Integrated Child Development Service)

Mr. Rajesh Gajalwad, ICDS Officer, Lanja

Mrs. Pragati Ligam, HOD, ICDS Officer, Rajapur

Mr. Vinayak Bhosale, Administrative Officer

Onco-Life Cancer Centre, Satara

Mr. Uday Deshmukh, Founder, CEO

Sanjeevani Hospital, Ratnagiri

Dr. Ashok Prabhudesai

Parkar Hospital & Research Institute, Ratnagiri

Dr. Mateen Parkar

Chirayu Hospital, Ratnagiri

Dr. Ramesh Chavan

President of Ratnagiri Doctors Association

Dr. Toral Shinde

Dr. Prasanna Mulye

Dr. Nalawade Clinic, Ratnagiri

Dr. Arun Nalawade, ENT Surgeon

Dr. Mhaskar Hospital, Ratnagiri

Dr. Munir Mhaskar, Onco Surgeon

Dr. Pathare Clinic, Ratnagiri

Dr. Parag Patre, ENT Surgeon

Hind Lab Diagnostic Centre (Mahalab)

Dr. Rakesh Rajiv Patkar

Prime Diagnostics Centre

Dr. Mahak Agrawal

Gogate Clinic, Urologist, Ratnagiri

Dr. Sunil Gogate

Dr. Gondhlekar Clinic, Ratnagiri

Dr. Ravindra Gondhlekar

Sub District Hospital, Dapoli

Mrs. Anagha Ghag

Mrs. Pandye, Head, Asha Sevika, Dapoli

Shri Siddhivinayak Ganpati Cancer Hospital, Miraj

Dr. Vikas Gosavi

Mr. Vinod Terdal (Director, Administration)

Kolhapur Cancer Center, Kolhapur

Dr. Suraj Pawar, Director

Mr. Suraj Wagare, IT/EDP Manager

Krishna Institute of Medical Sciences, Karad

Dr. Anand Gudur

Arogyam Path Lab, Chiplun

Dr. Tejanand Ganpatye

Shraddha Pathology Lab, Ratnagiri

Dr. Ravindra Shrikhande

Sanjeevani Pathology Laboratory, Ratnagiri

Dr. Smruti Gurjar-Prabhudesai

Nishkarsh Diagnostics, Shivaji Nagar, Ratnagiri

Dr. Ninad Naphade

Modern Path Lab, Khed

Dr. Vahida Mukadam

Siddhivinayak Clinical Laboratory, Rajapur

Mr. Rajesh Gelye

Sure Path Lab, Kankavli

Dr. Sneha Gavandalkar

Dr. Manchekar Hospital

Dr. Manoj Manchekar, Onco Surgeon

Dr. Desai Hospital, Chiplun

Dr. Satish Desai

Dr. Reelkar's Shraddha Hospital, Chiplun

Dr. Vijay Reelkar

Dr. Bhagwat Hospital, Dapoli

Dr. Suyog Bhagwat

Dr. Tushar Bhagwat

Dr. Bhatkar Hospital, Dapoli

Dr. Shishir Bhatkar

Khan Bahadur Memorial Hospital, Dapoli

Dr. Munir Sarguro

Patwardhan Hospital, Dapoli

Dr. Naresh Patwardhan

Dr. Nivedita Patwardhan

Sushrut Hospital, Dapoli

Dr. Vaibhav Kulkarni, Surgeon

Mehta Hospital, Dapoli

Late Dr. Prashant Mehta, Surgeon

Dr. Kunal Mehta, Surgeon

Shraddha Maternity Hospital, Mandangad

Dr. Shraddha Ambekar

Soham Clinic, Lanja

Dr. Swarup Sarfare

Omkar Path Lab, Kankavli

Dr. Geeta Moghe

Eklure Hospital, Lanja

Dr. Shripad Eklure

Dr. Swarup Eklure

Private Physicians/Clinicians

Dr. Vinod Joshi, physician, Anjarle, Dapoli

Dr. Leena Joshi, Physician, Anjarle, Dapoli

Dr. V.V. Suryavanshi, Physician, Asood, Dapoli

Dr. Sabir N. Momin, Physician, Kelshi, Dapoli

Dr. Swapnil Guhagarkar, Shree Clinic, Kelshi

Dr. Vaibhav Takbhate, Physicaian, Mandivli

Dr. Mahesh Agre, Physician, Jalgaon, Dapoli

Dr. Sunil Goriwale, Physician, Tadil, Dapoli

Dr. Shridhar Baam, Physician, Mandangad

Dr. Vivek Morvekar, Physician, Matwan

Dr. Vivekanand Fatak, Physician, Dapoli

Dr. Suyog Paranjpe, President, Doctor's Association, Rajapur

Dr. Nikhil Paranjpe, Physician, Dhartale, Rajapur

Cantre for Cancer Epidemiology

WG CDR Anand Kumar Tiwari (Retd) - CAO

Mr. Suryakant Shedge – Accounts Officer II

Mr. Prashant Kadam - AAO

Mrs. Sujata Bantumilli - AAO

Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Navi Mumbai

Dr. Navin Khattry, Dy Director, CRC

Dr. Prasanna Venkatraman, Dy Director, CRI

Wg Cdr P. J. Monteiro (Retd) - CAO

Mrs. Kamala Paidipati - Dy Controller of Accounts

Sadhichha Clinic, Kuve, Lanja

Dr. Pravin Sutar

Shree Mangesh Hospital, Lanja

Dr. Anil Patki

Dr. Hemant Patki

Chhotubhai Desai Hospital, Lanja

Dr. Amit Desai

Dhanvantari Clinic - Vaibhav Vasahat, Lanja

Dr. Ashok Gaikwad

Dr. Vaishali Gaikwad

Joshi Hospital, Rajapur

Dr. Arun Joshi

Dr. Makrand Joshi

Mauli Clinic, Rajapur

Dr. Sagar Patil

Dr. Abu Tayshetye Hospital, Kankavli

Dr. Abu Tayshetye

Tata Memorial Hospital, Mumbai

Dr. CS Pramesh – Director

Dr. Shailesh Shrikhande – Deputy Director

Dr. Siddhartha Laskar – Dy Director Academics

Mr. Anil Sathe – Director, Administration (TMC)

Mr. Suryakant Mohapatra – JCFA

Mr. Benny George – CAO, HRD

Mr. Chandrakant Shetty – Dy Admin Officer

24. Photo Gallery



Evidence Based Management (EBM) conference organised at Tata Memorial Centre, Mumbai 24th to 26th February 2023 attended by the Cancer Registry Staff.



Ratnagiri PBCR staff along with Sindhudurg, Sangrur, Muzaffarpur, Khordha and Mayurbhanj cancer registry staff were deputed for “ICD-10 Mortality Coder Training” organized at Varanasi from 15th to 21st February 2024.

Ratnagiri District PBCR Report 2019-2020



Paediatric Cancer Registry and Data Meeting held at Adyar Cancer Institute (WIA) Chennai in 31st January to 1st February 2025. (Presented the Paediatric Cancer burden from the Konkan area of Maharashtra state, India.)



Mrs. Monika Sarade Presented the Research papers in the International Association of Cancer Registries (IACR) Conference which was held at Beijing, China 4th to 7th November 2024.



Ratnagiri Population-Based Cancer Registry staff.

Registry Staff Collecting the Cancer Cases from various Sources Hospitals, Pathology Laboratories, Birth and Death Registrar Office of the Ratnagiri District



**Dr. Yash Prasade
District Programmer Co-ordinator**



Health Awareness Camp and Participating field staff with NCD Mobile Screening van camp in Ratnagiri District.



Field Investigator Village visit/House visit in Ratnagiri District.





Tata Memorial Hospital, Mumbai



Advanced Centre for Treatment, Research and Education in Cancer, Navi Mumbai



**Centre for Cancer Epidemiology,
Navi Mumbai**



**Bhaktshreshtha Kamalakar pant Laxman
Walawalkar Hospital, Dervan Ratnagiri**

“Cancer is curable if detected early”