

Cancer Incidence and Mortality in Varanasi District, Uttar Pradesh, India: 2018-2019

Population-Based Cancer Registry (PBCR) Report



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Population-Based Cancer Registry (PBCR) Report



Homi Bhabha Cancer Hospital (HBCH), Varanasi, Uttar Pradesh, India



Mahamana Pandit Madan Mohan Malaviya Cancer Centre (MPMMCC), Varanasi, Uttar Pradesh, India



Dr. R A Badwe – Director, TMC and Dr. S Pradhan – Director MPMMCC & HBCH along with other dignitaries released the Varanasi PBCR first year report



Dr. S Pradhan, Director of HBCH and MPMMCC handing over a copy of the PBCR, Varanasi 2017 report to Hon'ble Governor Smt. Anandiben Patel

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We greatly acknowledge the help provided by the Institute of Medical Sciences, Sir Sunderlal Hospital, Banaras Hindu University (BHU), Varanasi, Uttar Pradesh, India

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Contents

Sr. No.	Topic	Page number
I	Highlights	1
II	Executive summary	3
1	Uttar Pradesh state profile	8
2	Varanasi district profile	9
3	Administrative orders	12
4	Population covered by cancer registry	13
5	Cancer registration method	15
6	Community involvement in the cancer registration process	21
7	Cancer cases registration by source of registration: First source of information	23
8	Quality control	25
9	Cancer incidence and mortality: all sites	28
10	Leading cancer sites by gender	29
11	Cancer pattern in urban and rural area	42
12	Cancer pattern in paediatric age-group	45
13	Tobacco-related cancer	48
14	Cancer burden as per anatomical system	51
15	Socio-demographic information	53
16	Comparison of cancer incidence rate with other Indian registries	55
17	Technical support to population-based cancer registry Muzaffarpur, Bihar	62
18	The COVID-19 pandemic effect	65
19	Description of statistical terms used	67
20	Standard registry tables	68
21	Paediatric cancer incidence tables as per ICCC-3 standard	80
22	Village-wise incidence and mortality cases: 2017-2019	82
23	References	116
24	Acknowledgement	117
25	Annexure	121

I. Highlights

- ❖ Varanasi population based cancer registry is the first cancer registry in the Uttar Pradesh (UP) state of India. The registry was established on 1st April 2017.
- ❖ The registry covers around 4 million population of the district (urban area and 1,295 villages from 8 blocks of the district). The 57% population of the district is rural.
- ❖ The cancer registry staff has collected the cancer case data from all cancer centres, private hospitals, and laboratories in Varanasi and around the area as well government hospitals and primary health centres. There are more than 100 sources of cancer registration.
- ❖ The registry staff has interacted with more than 6,500 community leaders to gather the cancer cases information.
- ❖ In the year 2018 and 2019, the cancer registry registered 4,559 cancer incidence cases (2,577 males and 1,982 females).
- ❖ The main source of information is from Homi Bhabha Cancer Hospital and Mahamana Pandit Madan Mohan Malaviya Cancer Centre Varanasi and through village visits.
- ❖ The age adjusted incidence rate for males is 72.1 per 100,000 population and for females, it is 58.4 per 100,000 population.
- ❖ 1 in 12 males and 1 in 15 female are at risk of developing cancer in Varanasi district.
- ❖ Mouth, tongue and gall bladder cancer are predominant cancer among males in this population.
- ❖ We have registered 660 mouth cancer, 205 tongue and 143 gall bladder cancer cases in males during the period 2018 and 2019.
- ❖ Mouth cancer incidence in males is high in this population (AAR 18.4 per 100,000). 1 in 50 males is at risk of developing the disease.
- ❖ In this population 50.6% and 13.1% of cancer cases are due to tobacco consumption respectively in males and females.
- ❖ Breast, gall bladder and cervix uteri cancer are the predominant cancer among females in this population.
- ❖ We have registered 450 breast cancer, 270 gallbladder cancer and 239 cervix uteri cancer cases in females during the period 2018 and 2019.

- ❖ Breast cancer incidence is 13.1 per 100,000 population, which is low as compared to other urban registries in India. 1 in 71 females are at risk of developing breast cancer.
- ❖ Gall bladder cancer is the second leading cancer site in females. The incidence is 8.2 per 100,000 population. 1 in 100 females are at risk of developing gall bladder cancer in this population.
- ❖ Of the total cancer cases registered, 2% of cases are in paediatric age group. The age adjusted incidence for boys is 59.6 per million and 23.9 per million for girls. The leading cancer sites in boys are bone, myeloid leukaemia and leukaemia unspecified while in girls lymphoid leukaemia, bone and NHL.
- ❖ There is a difference in the cancer pattern between rural and urban areas. The cervix and gall bladder cancer burden is higher in rural areas as compared to urban areas.
- ❖ The COVID-19 pandemic has badly hampered the registry working. There may be under reporting in the urban area as compared to the rural area.
- ❖ Few hospitals and laboratories have not provided the cancer patients data to the cancer registry.
- ❖ The major cancer burden in Varanasi district is due to mouth, tongue, breast, gall bladder and cervix cancer. We need to raise awareness in the population about the signs, symptoms and risk factors of the disease. It is recommended that there should be easy access to diagnosis for symptomatic/likely cancer cases. The confirmed cancer cases should be provided treatment.
- ❖ As the tobacco-related cancer is high in this population, we need to effectively implement the tobacco control program in this district. The awareness of Tobacco Quit Line toll-free number 1800-11-2356 is required.
- ❖ The population based cancer registry in the Varanasi district will be used to monitor the cancer trends and to evaluate the effects of prevention and treatment.
- ❖ The cancer registry will act as a foundation for epidemiological studies of common cancer in these areas.
- ❖ The senior faculty and staff of cancer registry have presented the scientific posters using the registry data in the virtual meeting of the International Association of Cancer Registries (IACR) held on 12-14 October 2021.

II. Executive summary

Background

Tata Memorial Centre (TMC), Mumbai an autonomous institute under the Department of Atomic Energy, Government of India, started a population-based cancer registry in Varanasi district on April 1, 2017, with the help of Sir Sunderlal Hospital, Banaras Hindu University, and district health authority of Varanasi district. The 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. This is the first population-based cancer registry in the Uttar Pradesh state. The cancer registry has published the first year (2017) report in October 2020. The registry data will be useful in planning cancer control activities and strengthening cancer care services in the Varanasi district. **We are presenting here the report for the years 2018 and 2019.**

Population covered

The cancer registry covers the eight blocks of the district – Arajilina, Baragaon, Chiraigaon, Cholaipur, Harhua, Kashividyapeeth, Pindra, and Sewapuri covering a population of 3,676,841 as per census 2011. **The registry covers urban areas (90 wards) Ramnagar (Nagar Palika Parishad), 39 census town, Gangapur Nyay Panchayat (10 wards), Cantonment board, Maruadih railway settlement as well as 1,295 villages of the district. Around 57% population of the district is in the rural area.**

Registration method

Trained field investigators of the cancer registry regularly visit the villages as well as different hospitals, pathology laboratories, medical colleges, cancer control cells, and the birth and death registrar office to collect cancer incidence and death cases. The registry staff interacts with the village sarpanch, Auxiliary Nurse Midwife (ANM), Accredited Social Health Activist (ASHA) workers, and primary health centre staff periodically to know the cancer cases diagnosed in the area as well as cancer deaths that have occurred in the village. With the help of ASHA workers, the registry staff interacts with the patient's relative and they note down the information available.

In the urban area, the staff interacts with the local municipal corporators and local leaders to get information about the cancer cases diagnosed in the community. The information received from ASHA workers/patients' relatives/local leaders is further confirmed at the patient's treating hospital.

After confirming the patient's residence (resident of the district for at least one year) and duplicate checking by senior staff, the case is registered in the prescribed format. The data entry is carried out in *CanReg5* software.

Patients from this area travel to Prayagraj, Lucknow, Kanpur, Delhi, Chandigarh, and Mumbai for cancer treatment and also they receive the treatment at Sir Sunderlal (SS) Hospital, Banaras Hindu University (BHU), Varanasi, and other private hospitals.

Tata Memorial Centre (TMC) Mumbai started two cancer centres including Homi Bhabha Cancer Hospital (HBCH), Lahartara and Mahamana Pandit Madan Mohan Malaviya Cancer Centre (MPMMCC), BHU in Varanasi city. Both centres are well functioning in cancer care and treatment services. Centres are following the TMC treatment and follow-up protocol. From 2018, more than 50,000 cancer patients have been registered.

Results

This report is based on the cancer registry data for the years 2018 and 2019. In the year 2018 and 2019, the cancer registry recorded 4,559 incidence cancer cases including 2,577 males (56.5%) and 1,982 females (43.5%). The age-adjusted incidence rate for males is 72.1 per 100,000 population and for females, it is 58.4 per 100,000 population. The cumulative risk for the age group 0-74 in males is 8.3% (**1 in 12 men is at risk of developing cancer**) and in females, it is 6.6% (**1 in 15 females is at risk of developing cancer**).

For the years 2018 and 2019, the cancer registry recorded 2,630 cancer deaths including 1,554 deaths among males (59.1%) and 1,076 deaths among females (40.9%). The age-adjusted mortality rate for males is 43.6 per 100,000 population and for females, it is 32.3 per 100,000 population. The cumulative risk of death due to cancer in the age group 0-74 in males is 5.1% and for females, it is 3.8% (**1 in 20 males and 1 in 26 females is at risk of death due to cancer**).

Leading cancer sites

Among males; mouth, tongue, gallbladder, lung, and liver are the leading cancer sites. Among females; breast, gall bladder, cervix uteri, ovary and mouth are the leading cancer sites. The leading cancer sites are mentioned in table I and II.

Table I: Leading cancer sites in males for the period 2018-2019

ICD 10	Sites	Number	%	CR	AAR	TR
C03-C06	Mouth	660	25.6	15.7	18.4	46.1
C01-C02	Tongue	205	8.0	4.9	5.6	13.4
C23-C24	Gall bladder	143	5.5	3.4	4.2	8.7
C33-C34	Trachea, bronchus and lung	131	5.1	3.1	3.8	5.7
C22	Liver	131	5.1	3.1	3.8	7.0

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 for the period 2018-2019

ICD 10	Sites	Number	%	CR	AAR	TR
C50	Breast	450	22.7	11.7	13.1	32.0
C23-24	Gall bladder	270	13.6	7.0	8.2	18.6
C53	Cervix uteri	239	12.1	6.2	7.2	16.7
C56	Ovary	136	6.9	3.5	3.9	9.0
C03-06	Mouth	83	4.2	2.2	2.5	5.4

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

Primary unknown (C80) cases

This year we have noticed an improvement in the cancer case registration due to continuous interaction with the clinician by the registry staff as well improvement in the infrastructure. The percentage of primary unknown cases has slightly decreased for males from 4.4 to 3.9 and in females, no major change was observed as compared to the year 2017.

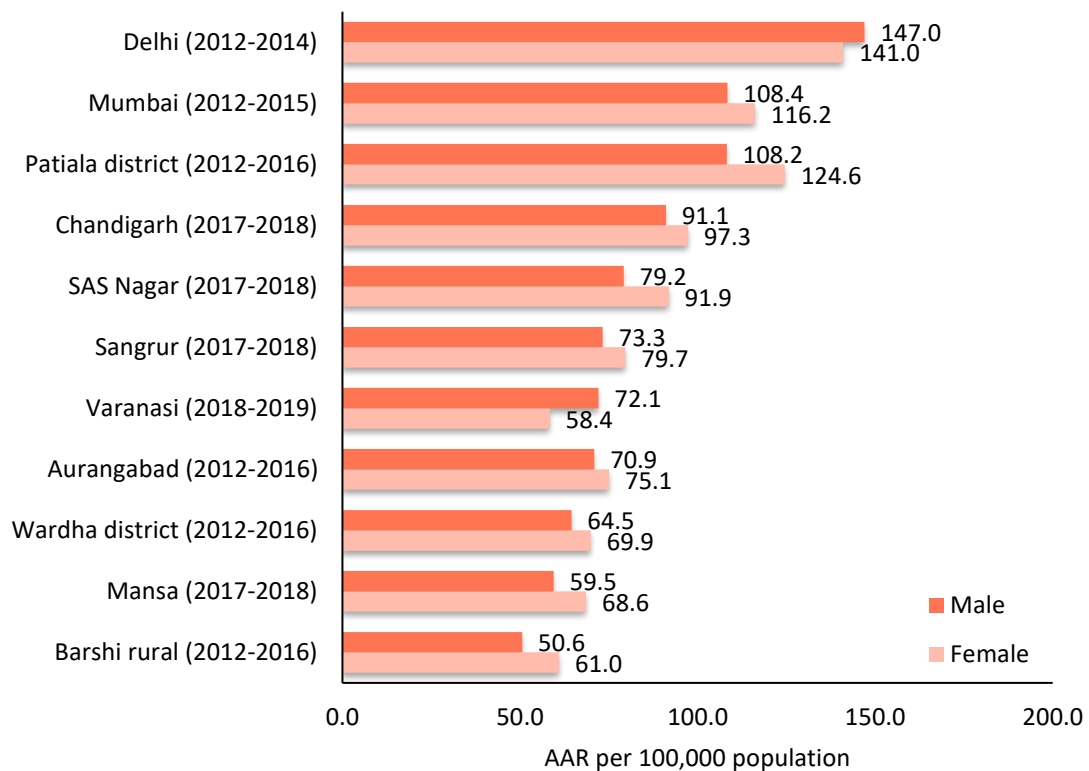
Late registration of 2017 incidence cases

In the first-year report of the population-based cancer registry, we have noted the under-reporting of the cases in the range of 14% to 28%. Few private laboratories, as well as leading hospitals, were reluctant in providing the cancer patient's data in the Varanasi district. Due to continuous interaction with the community leaders/patient's relatives to gather the information, we have registered a few cancer cases after the first-year report (2017) release, which will be considered as late registration.

The registry has noted 170 (Male – 97, Female – 73) late-registration incidence cases for the year 2017. After including the late registration, total cancer cases were 2,076 (male: 1,155 and female: 921) and the age-adjusted incidence rate for males for the year 2017 was 64.7 and for females, it was 56.6 per 100,000. Since it was first year data, we have noted under-reporting of the cancer cases.

Comparison of cancer registry rate with other registries in India

As compared to the other parts of India, cancer incidence rates are lower and comparable with other parts of India. ⁽¹⁻⁵⁾

Figure I: All site cancer incidence rate

Cancer patterns in urban and rural areas

The Varanasi cancer registry covers 57% of rural area and 43% of urban areas. The cancer incidence rate in urban and rural areas for males is 68.0 and 76.1 per 100,000 population respectively. For females, the cancer incidence rate in urban and rural areas is 55.0 and 62.2 per 100,000 population. For females, the rural area cancer incidence rates are higher compared to the urban area. Mouth cancer is the leading cancer site in both urban and rural males with an age-adjusted incidence rate 18.2 and 18.5 per 100,000 population respectively. For females, breast, gall bladder and cervix uteri are the top three leading cancer sites. The cervix cancer incidence for rural areas is higher than that of the urban areas. **Due to COVID-19 pandemic we have limited access to the urban area hospital. We may have missed the cases from the urban area however due to community interaction chances of under reporting is low in rural area however there may be under diagnosis.**

Paediatric cancer registry

The Varanasi PBCR is monitoring the paediatric cancer burden in the district. We have maintained the data of the paediatric cancer cases as per the ICC-3 standard. The paediatric cancer incidence in boys is 59.6 per million and for girls it is 23.9 per million.

Cancer control activities in the Varanasi district/ recommendation

The cancer registry data has estimated the risk of developing cancer in males 8.3% and in females 6.6%. The major cancer burden in the Varanasi district is due to mouth, tongue, breast, gall bladder, and cervix uteri cancers. These cancers are preventable. Mouth cancer incidence rates are higher in the Varanasi district as compared to other cancer registries. In males 50% cases are due to tobacco use. The gall bladder cancer is the second leading cancer site in females and third leading cancer sites in males. We need to create awareness about the risk factors about the disease (such as food habit – effect of consumption of mustard oil and risk of gall bladder cancer as well protective factors such as leafy vegetables, fruits).

This report recommends initiation of the awareness programs on tobacco hazards, risk factors signs and symptoms of cancer in schools, colleges, work place and communities as well as for the primary health centre workers, and government medical officers. It is also recommended that there should be ease of access to diagnosis of symptomatic/ likely cases and the confirmed cancer cases should be provided timely treatment at the cancer centres.

The public health department of the Uttar Pradesh state should implement these activities with technical support from the TMC Varanasi. The population-based cancer registry in the Varanasi district will be used to monitor cancer trends and to evaluate the effects of prevention and treatment. The cancer registry will act as a foundation for epidemiological studies of common cancers in these areas.

1. Uttar Pradesh state profile

Uttar Pradesh state is located in the northern region of India. The state shares its borders with states Himachal Pradesh, Rajasthan, Madhya Pradesh, Bihar, Jharkhand, Chhattisgarh, and Haryana. The state also borders the capital of India- New Delhi along with the newly formed state of Uttarakhand. It is bordered by Nepal in the north. Uttar Pradesh has been one of the oldest states in the country and in every single way reflects the life and culture of India as a whole. The total area of the state is 240,928 Km². The population of the state is 199,812,341⁽⁶⁾. Lucknow is the capital of Uttar Pradesh.

As per the 2011 census, Uttar Pradesh has a total population of 199,812,341 out of which 104,480,510 (52.3%) are males and 95,331,831 (47.7%) are females. The population density of Uttar Pradesh is 829 people per Km²; it is the highest populated state in India.

The state is spread over an area of about 240,928 Km² making it the 5th largest state in the country in terms of area. The state has a growth rate of about 20.23%, which is higher than the national average of 17.6%. The population of the state is rising considerably due to rapid efforts toward development and progress. The literacy rate in the state is about 67.7%. The Uttar Pradesh state population, literacy, and area are mentioned in table 1.

Table 1: Uttar Pradesh state population, literacy and area

Sr. No.	Characteristics	Unit	Value
1.	Area (i) Rural-rea (ii) Urban area	Km ²	240,928.0 2,33,365.7 7,562.3
2.	Total population (Census 2011) (i) Urban population (ii) Rural Population	Number	199,812,341 44,495,063 (22.3%) 155,317,287 (77.7%)
3.	District	Number	75
4.	Density	Km ²	829
5.	Female per 1000 male	Number	912
6.	Literacy rate	%	67.7

2. Varanasi district profile

Varanasi, or Benaras, (also known as Kashi) is one of the oldest living cities in the world. Varanasi's prominence in Hindu mythology is virtually unrevealed. Mark Twain, the English author and literature, who was enthralled by the legend and sanctity of Benaras, once wrote: "Benaras is older than history, older than tradition, older even than legend and looks twice as old as all of them put together." The Ganges is said to have its origins in the tresses of Lord Shiva and Varanasi, it expands to the mighty river that we know of. The city is a centre of learning and civilization for over 3000 years. With Sarnath, the place where Buddha preached his first sermon after enlightenment, just 10 km away, Varanasi has been a symbol of the Hindu renaissance ⁽⁷⁾.

It is surrounded by Mirzapur district, Jaunpur district, Ghazipur district, Chandauli and Sant Ravidas Nagar district. According to the 2011 Census of India, Varanasi district ranks 18th in Uttar Pradesh with a population of 3,676,841 which is 1.8% of the total population of 199,812,341 of Uttar Pradesh State. Varanasi district has a population density of 2,395 persons per sq.km. which is more than the state average of 829 persons per sq. km ⁽⁶⁾.

The location of the Varanasi district is presented in figure 1. Varanasi district health blocks and the number of villages are presented in table 2.

Figure 1: Location of Varanasi district, Uttar Pradesh



Table 2: Blocks under Varanasi district

Sr. No.	Block	Number of villages
1	Arajiline	220
2	Baragaon	139
3	Chiraigaon	133
4	Cholapur	148
5	Harhua	173
6	Kashividyapeeth	106
7	Pindra	191
8	Sewapuri	185
Total		1295

Health infrastructure of Varanasi district

Varanasi district has five district hospitals and five sub-district hospitals with basic diagnostic and surgical facilities. The district has 30 block primary health centres, 8 community health centres, and more than 300 sub-centres. Primary health care is offered at these hospitals. Detailed information about the hospital and PHC is presented in Table 3.

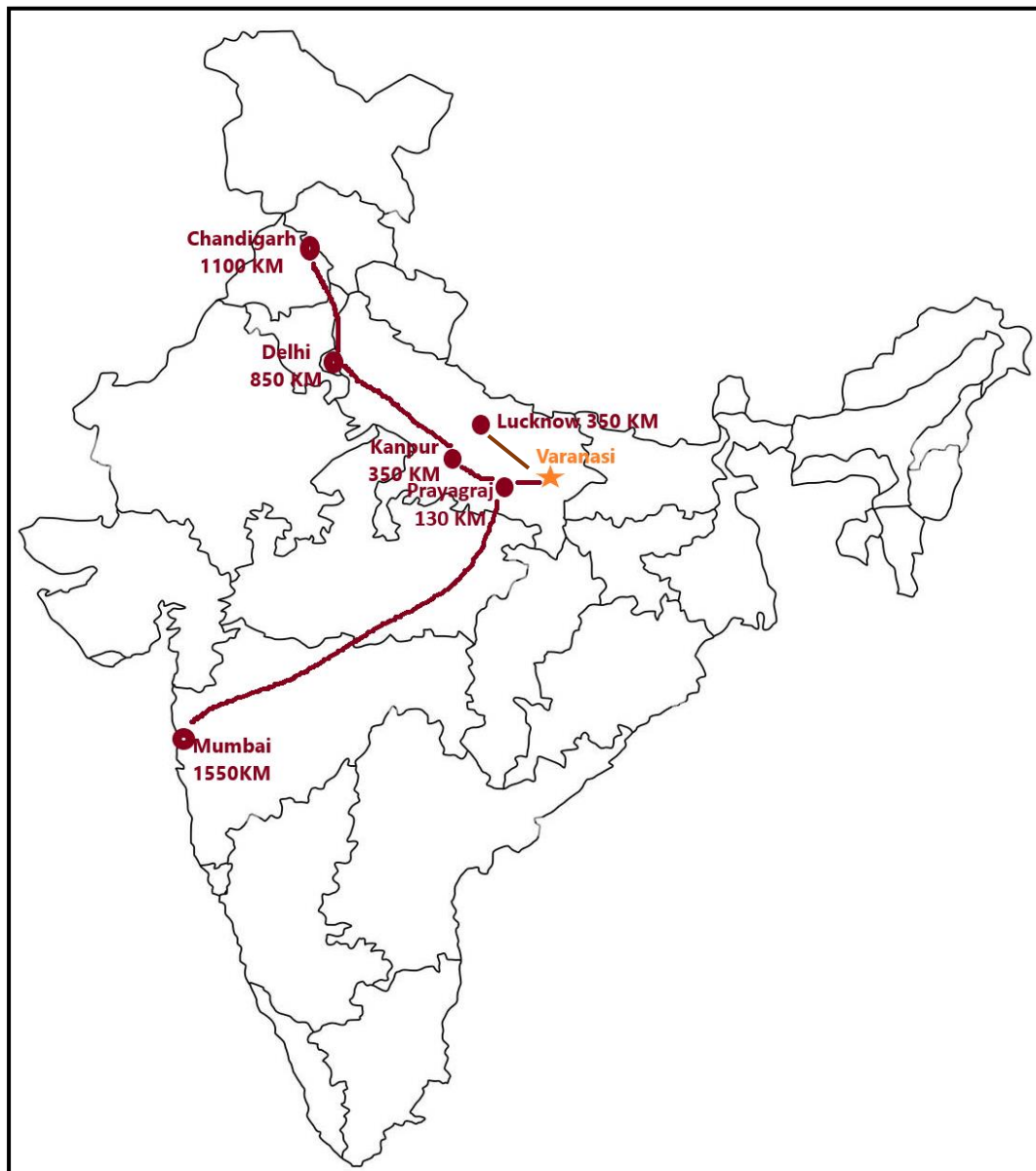
Table 3: Major Health Facilities in Varanasi district

Sr. No.	Institute	Number
1.	Central government hospital	3
2.	District hospital (DH)	5
3.	Sub-district hospital (SDH)	5
4.	Community health centre	8
5.	Block primary health centre (PHC)	30
6.	Sub-Centre (SC)	312
7.	Maternity welfare centre	41
8.	Maternity welfare sub-centre	306
9.	Rural hospital (RH)	
	(a) Allopathic	37
	(b) Ayurvedic	26
	(c) Homeopathic	15
	(d) Unani	1
	(e) T.B. centre	2

Tata Memorial Centre, Mumbai – an autonomous unit of the Department of Atomic Energy, Government of India with the help of the Government of Uttar Pradesh and BHU, Varanasi has started the Homi Bhabha Cancer Hospital (HBCH) and Mahamana Pandit Madan Mohan Malaviya Cancer Centre (MPMMCC) in Varanasi. The HBCH and MPMMCC have surgical, radiotherapy and medical oncology facilities. From 2018, more than 50,000 cancer patients have been registered. The hospital is listed in the various government-sponsored schemes for cancer treatment.

The cancer treatment facility is also available in SS Hospital, BHU Varanasi. The patient from Varanasi district travel to Prayagraj, Lucknow, Kanpur, Delhi, Chandigarh and Mumbai for cancer treatment. The distance from Varanasi to different cancer treatment centres is presented in figure 2.

Figure 2: The distance from Varanasi to different cancer treatment centres



3. Administrative orders

The Chief Medical Officer (CMO), District Public Health Department of the Varanasi district has issued an administrative order to all the government and private hospitals to provide data of all cancer patients to the population-based cancer registry. The Director of Institute of Medical Sciences, BHU also issued the letter to all the departments of SS hospital to support the cancer registry staff in cancer cases data collection. Due to administrative support from the government of Varanasi, we have very good co-operation from the government institute.

प्रेषक,
मुख्य चिकित्सा अधिकारी,
वाराणसी।

सेवा में,
1. निदेशक,
मानसिक चिकित्सालय, वाराणसी।
2. मण्डलीय अपर निदेशक/प्रमुख अधीक्षक,
श्री शिव प्रसाद गुप्त मण्डलीय जिला चिकित्सालय, वाराणसी।
3. प्रमुख अधीक्षक,
राजकीय महिला चिकित्सालय, वाराणसी।
4. मुख्य चिकित्सा अधीक्षक,
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6. समस्त अधीक्षक/प्रभारी चिकित्साधिकारी,
सामुदायिक स्वास्थ्य केंद्र-वाराणसी।

पत्रांक: आईआईसीओ/विधि/टाटा/मेडसे/कैंसर रजि०/2020/ दिनांक 01-12-2020
विषय: जनपद वाराणसी में पापुलेशन बेस्ड कैंसर रजिस्ट्री।

महोदय,
प्रो. आर.ए. बड़वे, निदेशक, टाटा मेमोरियल सेन्टर, मुम्बई के पत्र संख्या-CCCN0. 037/29-5-17/TMC दिनांक 30 मई, 2017 द्वारा अवगत कराया गया है कि उनके सेन्टर/पापुलेशन बेस्ड कैंसर रजिस्ट्री स्टाफ द्वारा बी.एच.एम. के सहयोग से जनपद के सेन्टर सरकार एवं निजी चिकित्सालयों में भ्रमण कर सम्बन्धित चिकित्सालयों के अनिलेखों के आधार पर जनपद में कैंसर रोगियों की संख्या एवं कैंसर के कारणों से मृत्यु के आंकड़ों को तैयार कराया जायेगा।

तुम्हारा अनुरोध है कि पापुलेशन बेस्ड कैंसर रजिस्ट्री स्टाफ द्वारा कर रहे कम्युनिटी सर्वे में जो हेल्थ वर्कर एवं कम्युनिटी लीडर कैंसर रजिस्ट्री सर्वे में आवश्यक सहयोग करें।

भवदीय
मुख्य चिकित्सा अधिकारी
वाराणसी।

पत्रांक: आईआईसीओ/विधि/टाटा/मेडसे/कैंसर रजि०/2020/ दिनांक 01-12-2020
प्रतिलिपि-
स्थानीय प्रतिनिधि-पापुलेशन बेस्ड कैंसर रजिस्ट्री, टाटा मेमोरियल सेन्टर, मुम्बई।

मुख्य चिकित्सा अधिकारी
वाराणसी।

CMO letter for government hospitals

प्रेषक,
मुख्य चिकित्सा अधिकारी,
वाराणसी।

सेवा में,
समस्त प्रबन्धक/संचालक,
1. निजी नर्सिंग होम/हॉस्पिटल
2. निजी लैब/पैथालॉजी
3. निजी कैंसर हॉस्पिटल
4. निजी रेडियो डायग्नोस्टिक सेन्टर
जनपद-वाराणसी।

पत्रांक: आईआईसीओ/विधि/टाटा/मेडसे/कैंसर रजि०/2020/ दिनांक 01-12-2020
विषय: जनपद वाराणसी में पापुलेशन बेस्ड कैंसर रजिस्ट्री।

महोदय,
प्रो. आर.ए. बड़वे, निदेशक, टाटा मेमोरियल सेन्टर, मुम्बई के पत्र संख्या-CCCN0. 037/29-5-17/TMC दिनांक 30 मई, 2017 के क्रम में आप सभी को अघोषितार्थी के कार्यालय के पत्रांक-आईआईसीओ/विधि/टाटा/मेडसे/कैंसर रजि०/2018/3163-1 के माध्यम से कैंसर सम्बन्धित मरीजों के अनिलेख उपलब्ध एवं सहयोग करने की अपेक्षा की गयी थी, परन्तु आपकी तरफ से किसी प्रकार का सहयोग नहीं किया गया।

उक्त के क्रम में आपको निर्देशित किया जाता है कि आप टाटा मेमोरियल सेन्टर, मुम्बई के स्टाफ/कमरा नंबर 02, पी.डी.नरसिंह उपग्रहय, वाराणसी डिपार्टमेंट ऑफ रेडियोलॉजी, सर सुन्दर लाल चिकित्सालय, बी.एच.एम. वाराणसी को वर्ष 2017 के कैंसर सम्बन्धित मरीजों के अनिलेख उपलब्ध कराने में सहयोग प्रदान करें।

भवदीय
मुख्य चिकित्सा अधिकारी
वाराणसी।

पत्रांक: आईआईसीओ/विधि/टाटा/मेडसे/कैंसर रजि०/2020/ दिनांक 01-12-2020
प्रतिलिपि-
स्थानीय प्रतिनिधि-पापुलेशन बेस्ड कैंसर रजिस्ट्री, टाटा मेमोरियल सेन्टर, मुम्बई।

मुख्य चिकित्सा अधिकारी
वाराणसी।

CMO letter for private centres

काराही हिन्दू विश्वविद्यालय BANARAS HINDU UNIVERSITY
विश्वविद्यालय के अध्यक्ष का कार्यालय
सर सुन्दर लाल चिकित्सालय
Office of the MEDICAL SUPERINTENDENT
SR. SUNDERLAL HOSPITAL

Ref.No.SSH/F. PS to MS/2019-20/ 4648
Dated: 20.02.2020

The Head, Department of Radiology/Pathology/
General Medicine (Hematology),
Institute of Medical Sciences,
Banaras Hindu University

Dear Sir/Madam,

This is to inform you that the Mahamana Pandit Madan Mohan Malaviya Cancer Centre has established Population Based Cancer Registry in Varanasi District to know about the burden of cancer in the district. To plan the cancer care services in the Varanasi District, the cancer registry staff will collect the patient's data.

All are requested to kindly cooperate with the cancer registry staff to collect the data for its optimum use.

Thanking you.

Yours faithfully,
MEDICAL SUPERINTENDENT

Copy for information to:-
1. The Director, IMS
2. Dr. Divya Khanna, Assistant Professor, Preventive Oncology/Incharge, PBCR
MPMMC, TMC, Varanasi

MEDICAL SUPERINTENDENT

IMS BHU

4. Population covered by cancer registry

Varanasi district is divided into urban area and eight rural blocks: Baragaon, Harhua, Pindra, Arajiline, Chiraigaon, Cholapur, Kashividyapeeth, and Sewapuri. As per the 2011 census, the total population of Varanasi district is 3,676,841. Of the total population, 2,079,790 (56.6%) is rural and 1,597,051 (43.4%) is urban. Of the total population, 52.3% are males and 47.7% are females. The population as per the 2011 census is mentioned in table 4. ^(6, 7)

Table 4: Varanasi district population as per census 2011

Area	Male	Female	Total
Rural	1,076,526	1,003,264	2,079,790 (56.6%)
Urban	845,331	751,720	1,597,051 (43.4%)
Total	1,921,857 (52.3%)	1,754,984 (47.7%)	3,676,841 (100%)

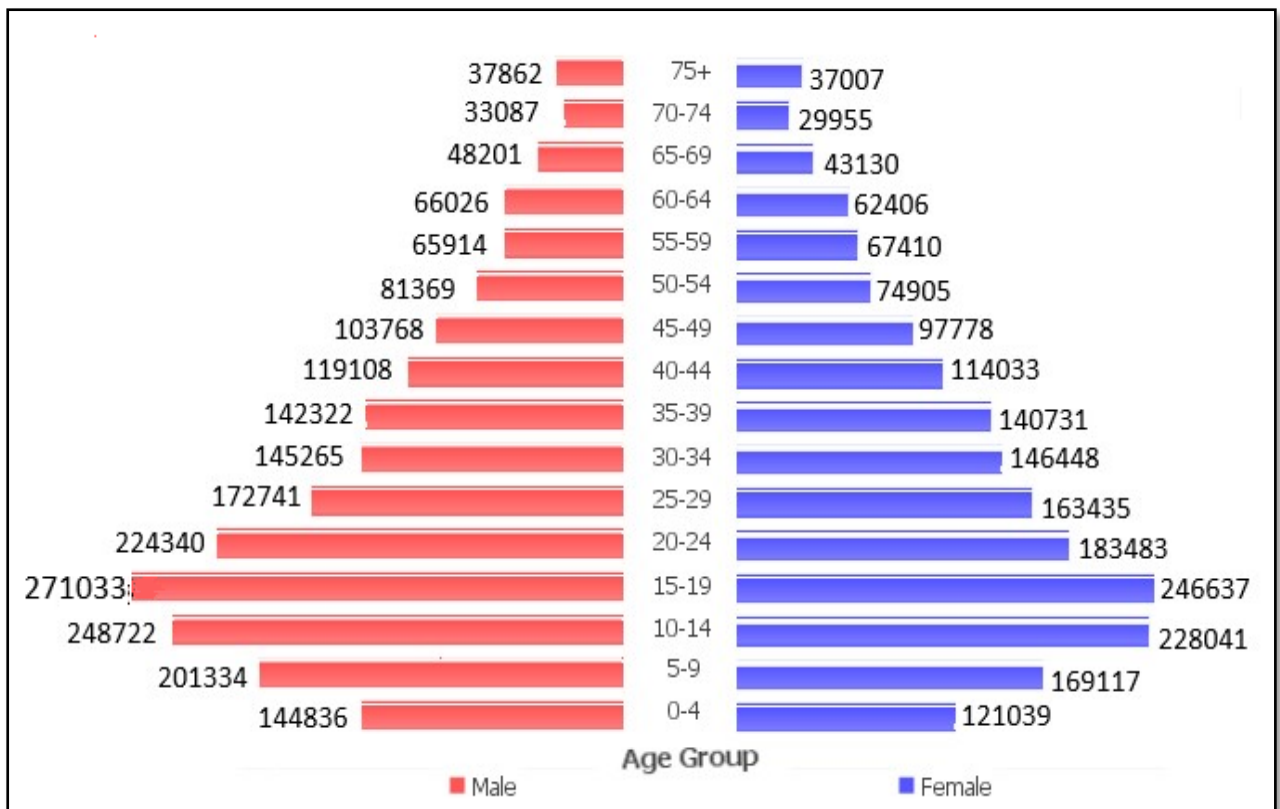
Estimated population of Varanasi district: 2018-2019

The registry population for 2018 and 2019 was estimated by the ratio method by using the 2001 to 2011 census population. As a result, average population of year 2018-2019 is 40,31,477 in which 21,05,925 males (52.2%) and 19,25,552 females (47.8%). The estimated average population for 2018-2019 is presented in table 5. The population pyramid of the Varanasi district is shown in figure 3.

Table 5: Estimated average population of Varanasi district: 2018-2019

Age Group	Male		Female		Total	
	Number	%	Number	%	Number	%
00-04	144836	6.9	121039	6.3	265875	6.6
05-09	201334	9.6	169117	8.8	370451	9.2
10-14	248722	11.8	228041	11.8	476763	11.8
15-19	271033	12.9	246637	12.8	517670	12.8
20-24	224340	10.7	183483	9.5	407823	10.1
25-29	172741	8.2	163435	8.5	336176	8.3
30-34	145265	6.9	146448	7.6	291713	7.2
35-39	142322	6.8	140731	7.3	283053	7.0
40-44	119108	5.7	114033	5.9	233141	5.8
45-49	103768	4.9	97778	5.1	201546	5.0
50-54	81369	3.9	74905	3.9	156274	3.9
55-59	65914	3.1	67410	3.5	133324	3.3
60-64	66026	3.1	62406	3.2	128432	3.2
65-69	48201	2.3	43130	2.2	91331	2.3
70-74	33087	1.6	29955	1.6	63042	1.6
75+	37862	1.8	37007	1.9	74869	1.9
Total	2105928	100	1925555	100	4031483	100

Figure 3: Population pyramid of Varanasi district 2018-2019



5. Cancer registration method

Staff selection and training

The field investigators, field supervisors, and data entry operators were selected from the district and they were provided training in cancer registry operation at the Centre for Cancer Epidemiology, Tata Memorial Centre, Mumbai. To observe the cancer registry working, the recruited cancer registry staff were deputed to Homi Bhabha Cancer Hospital, Sangrur, and Chandigarh PBCR.

Periodically training programs were conducted by the Centre for Cancer Epidemiology, Tata Memorial Centre, Mumbai either in person or virtual.

Cancer incidence cases

Trained field investigator of the registry visits the allotted villages periodically (in a period of 6 to 8 months) to gather information regarding the cancer cases diagnosed in the area and the cancer deaths documented in the village administrative office. The field investigator interacts with the village Sarpanch, Auxiliary Nurse Midwives (ANMs), Anganwadi workers, Accredited Social Health Activist (ASHA) workers, and the medical officer of the primary health centre and collects the information regarding cancer cases diagnosed in the village as well as any cancer death that has occurred in the village. The social worker takes the detailed information of the cancer case and visits the patient's house, along with the ASHA workers. The field investigator interacts with the patient/patient's relative and asks the following questions:

- When was the patient diagnosed with cancer?
- Does the patient have a case file number with the treating hospital?
- Does the patient have any discharge report, biopsy report, or CT scan report?

The social worker notes down the available information. 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. Field investigator also identifies any new cancer case/death in the village and repeats the same procedure mentioned above. This is a continuous process of village visits.

Cancer death cases

During the village visit, the social worker inquiries about cancer deaths that have happened 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 the medical records available in the cancer registry, the cancer death is registered.

Cancer prevalence cases

During the field visit, sometimes field investigator may come across the cases diagnosed before 2018. In this situation, the field investigator collects detailed information on the cancer case from the patient's relative and maintains the data in the registry office. During the second visit, field investigator updates the status of the cancer cases. If there is any death of the prevalent case in that year, then the cancer death is registered after matching the information with the registry record.

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 hospitals are scrutinized by the senior staff member. 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) ⁽⁸⁾. The preventive oncology consultant 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.

Data entry

The data entry is carried out in *CanReg5* software developed by the International Agency for Research on Cancer (IARC), Lyon, France ⁽⁹⁾.

After duplicate checking and other quality measures, the cancer incidence and death cases are registered. The cancer registration process of the registry is presented in figure 5.

Cancer cases data collection from different hospitals

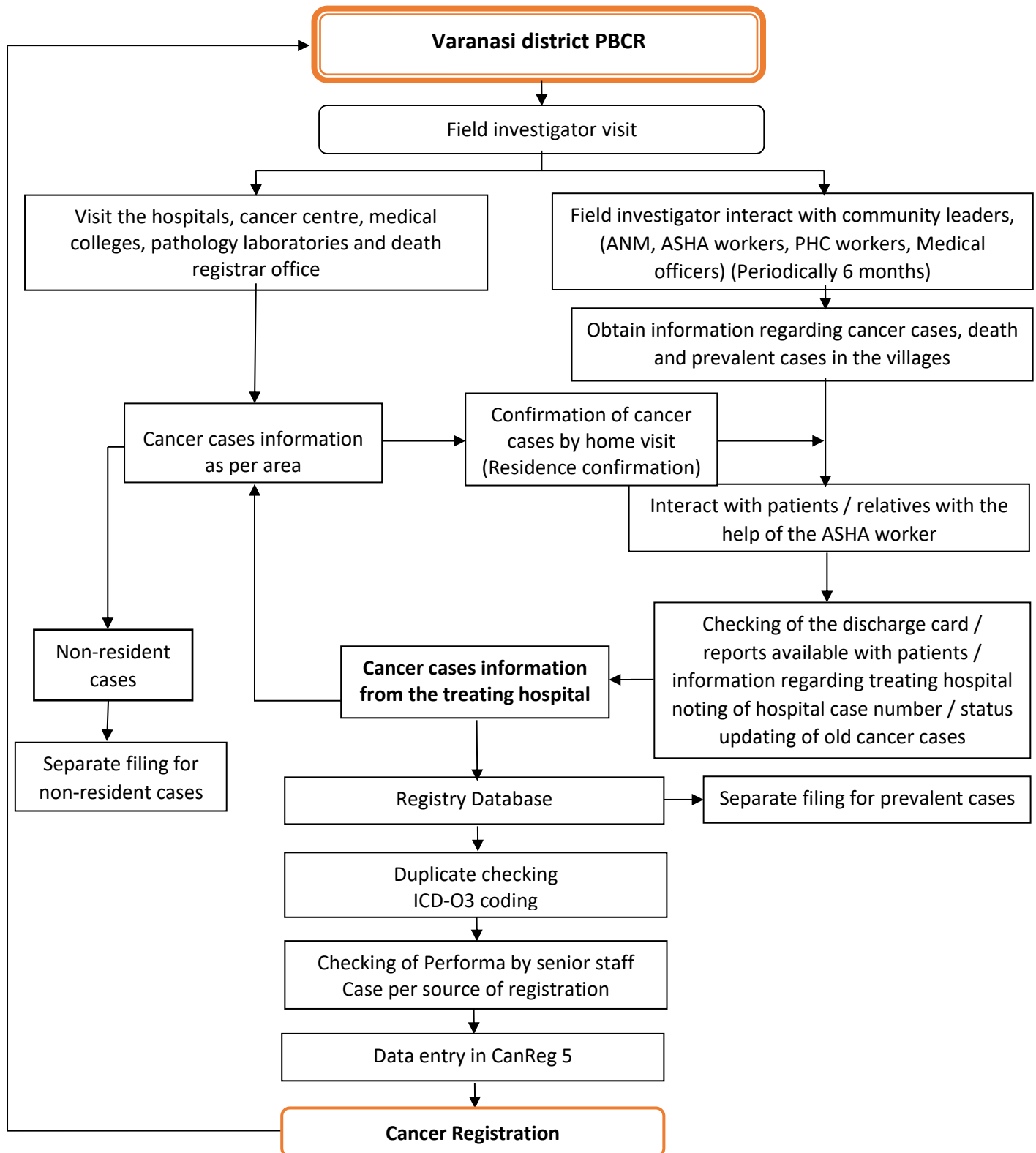
The registry staff regularly visits the following centres to collect information on the cancer cases and death cases in Varanasi district. The different sources of data collection are mentioned in table 6.

Table 6: Different sources of data collection

Sr. No.	Institution name	Place
1	Sir Sunderlal Hospital, Banaras Hindu University	Varanasi
2	Homi Bhabha Cancer Hospital & MPMCC	Varanasi
3	Anant hospital Varanasi	Varanasi
4	Apex Hospital and Diagnostic Centre	Varanasi
5	Arihant Diagnostic Centre	Varanasi
6	Block Development Office Arajiline	Varanasi
7	Block Development Office Baragaon	Varanasi
8	Block Development Office Chiraigaon	Varanasi
9	Block Development Office Cholapur	Varanasi
10	Block Development Office Haruha	Varanasi
11	Block Development Office Kashividyapeeth	Varanasi
12	Block Development Office Pindra	Varanasi
13	Block Development Office Sewapuri	Varanasi
14	Cantonment Hospital, Sadar	Varanasi
15	Chandpur Diagnostic Centre Varanasi	Varanasi
16	Community Health Centre Arajiline Block	Varanasi
17	Community Health Centre Baragaon Block	Varanasi
18	Community Health Centre Chiraigaon Block	Varanasi
19	Community Health Centre Cholapur Block	Varanasi
20	Community Health Centre Harhua Block	Varanasi
21	Community Health Centre Kashividyapeeth Block	Varanasi
22	Community Health Centre Pindra Block	Varanasi
23	Community Health Centre Sewapuri Block	Varanasi
24	D S Research center Varanasi	Varanasi
25	Dabur Oncquest, Lanka Varanasi	Varanasi
26	Death Record Office Arajiline Block	Varanasi
27	Death Record Office Baragaon Block	Varanasi
28	Death Record Office Chiraigaon Block	Varanasi
29	Death Record Office Cholapur Block	Varanasi
30	Death Record Office Harhua Block	Varanasi
31	Death Record Office Pindra Block	Varanasi
32	Death Record Office Sewapuri Block	Varanasi
33	Death Record Office Kashividyapeeth Block	Varanasi
34	Death Registration Office Nagar Nigam	Varanasi
35	Dinesh Pathology	Varanasi
36	Dirghayu Hospital and Surgical Centre, Sarnath	Varanasi

Sr. No.	Institution name	Place
37	Dr Lal Path, Lanka	Varanasi
38	Dr Mohan Kumar Lab, Lanka	Varanasi
39	ECHS Hospital	Varanasi
40	Galaxy Hospital Mahmoorganj	Varanasi
41	Ganga Sewa Sadan Hospital	Varanasi
42	Heritage Hospital, Lanka	Varanasi
43	Heritage Institute of Medical Sciences, Bhadawar	Varanasi
44	Janta Hospital, Rewari Talab	Varanasi
45	Karauli Diagnostics, Bhojubeer	Varanasi
46	Mata Anandamayee Hospital	Varanasi
47	Medicadre Diagnosis, Mahmoorganj	Varanasi
48	Noble Star Diagnostic & Interventional center	Varanasi
49	Opal Hospital	Varanasi
50	Pt Deen Dayal Upadhyay Govt. Hospital	Varanasi
51	Popular Hospital	Varanasi
52	Prakashdeep Hospital	Varanasi
53	Primary Health Centre Arajiline Block	Varanasi
54	Primary Health Centre Baragaon Block	Varanasi
55	Primary Health Centre Chiraigaon Block	Varanasi
56	Primary Health Centre Cholapur Block	Varanasi
57	Primary Health Centre Harhua Block	Varanasi
58	Primary Health Centre Kashi Vidya Peeth Block	Varanasi
59	Primary Health Centre Pindra Block	Varanasi
60	Primary Health Centre Sewapuri	Varanasi
61	Ragini Diagnostic	Varanasi
62	Rastogi Diagnostic Clinic	Varanasi
63	Rays Diagno Interventions Pvt. Ltd.	Varanasi
64	S G Lab	Varanasi
65	Sampurna Clinic, Pt. Deen Dayal Upadhyay Hospital	Varanasi
66	Shree Ram Krishna Mission Hospital, Luxa	Varanasi
67	Shubham Hospital	Varanasi
68	Sirgona Diagnosis Center, Maqbool Alam Road	Varanasi
69	SRL Diagnosis Centre	Varanasi
70	Suvidha Diagnosis, Jawahar Nagar Bhelupur	Varanasi
71	Trimurti Cancer Hospital	Varanasi
72	Urban Primary Health Care Centre Adampur	Varanasi
73	Urban Primary Health Care Centre Anandmayi	Varanasi

Sr. No.	Institution name	Place
74	Urban Primary Health Care Centre Asfaq Nagar	Varanasi
75	Urban Primary Health Care Centre Bajardiha	Varanasi
76	Urban Primary Health Care Centre Bari Bazar	Varanasi
77	Urban Primary Health Care Centre Benia	Varanasi
78	Urban Primary Health Care Centre Bhelupur	Varanasi
79	Urban Primary Health Care Centre Cantonment	Varanasi
80	Urban Primary Health Care Centre Chauka Ghat	Varanasi
81	Urban Primary Health Care Centre Durgakund	Varanasi
82	Urban Primary Health Care Centre Jaitpura	Varanasi
83	Urban Primary Health Care Centre Konia	Varanasi
84	Urban Primary Health Care Centre Lallapur	Varanasi
85	Urban Primary Health Care Centre Madanpura	Varanasi
86	Urban Primary Health Care Centre Madhopur	Varanasi
87	Urban Primary Health Care Centre Mandudih	Varanasi
88	Urban Primary Health Care Centre Ordely Bazar	Varanasi
89	Urban Primary Health Care Centre Pandeypur	Varanasi
90	Urban Primary Health Care Centre Rajghat	Varanasi
91	Urban Primary Health Care Centre Sadar Bazar	Varanasi
92	Urban Primary Health Care Centre SevaSadan	Varanasi
93	Urban Primary Health Care Centre Shivpur	Varanasi
94	Urban Primary Health Care Centre Sikraul	Varanasi
95	Urban Primary Health Care Centre Townhall	Varanasi
96	Vimta Labs, Lanka	Varanasi
97	Tata Memorial Hospital	Mumbai
98	Dr. Ram Manohar Lohia Hospital	Lucknow
99	Sahara Hospital	Lucknow
100	Sanjay Gandhi Postgraduate Institute of Medical Sc.	Lucknow
101	Kamala Nehru Memorial Hospital	Prayagraj
102	Kriti Scanning Centre	Prayagraj
103	Motilal Nehru Divisional Hospital	Prayagraj
104	Ganesh Shankar Vidyarthi Memorial Medical College	Kanpur
105	J.K. Cancer Institute	Kanpur
106	Lala Lajpat Rai Hospital	Kanpur
107	Rama Dental College & Hospital	Kanpur

Figure 4: Cancer registration method

6. Community involvement in the cancer registration process

The cancer patients from the Varanasi district travel to different cities for cancer treatment. It is practically difficult for the registry staff to visit these centres regularly. Few hospitals and private laboratories are reluctant in providing cancer patient's data of the district. To overcome this problem, we started community interaction. The primary health centre staff, ASHA workers, and Anganwadi workers cooperated by providing information on newly diagnosed cancer/cancer deaths that occurred in the village. The trained field investigator from the registry continuously interacts with these community members to obtain information regarding cancer cases in the villages. In the urban area, we have interacted with municipal corporators and the local leaders.

The community interaction confirmed the residence information of the cancer cases. Interaction with the patient/ patient's relatives provides demographic information such as education, income, religion, etc. Regular village visits and interaction with the community have enabled the registry to update the status of cancer patients, which will be utilized for cancer survival analysis. Initially, various centres were reluctant to provide data on cancer cases. To tackle this, field visits and interactions with community leaders enabled the registry to acquire information about the cancer cases from the villages after contacting patients / their relatives through these community leaders. In 2018 and 2019, registry staff interacted with 6,538 community leaders which included Sarpanch, Municipal corporator, Medical officer, ANM and ASHA workers. Registry staff interacted with community leaders and primary health centre staff to collect information about diagnosed cancer cases. The detail of the same by blocks is presented in table 7.

Table 7: Community leaders/ primary health centre staff involved in the cancer registration process

Block Name	Total No. of Villages/ Ward	Sarpanch/ Panch/ Parshad (Sabhasad)	SMO	MO	HEO	ANM	ASHA Workers	Anganwadi workers	MPHW	Total
Varanasi urban	90	90	6	43	0	10	535	0	4	688
Arajiline	220	130	1	5	1	30	365	525	2	1059
Baragaon	139	80	1	5	1	28	221	316	2	654
Chiraigaon	133	76	1	5	1	32	232	323	7	677
Cholapur	148	89	1	3	1	16	208	297	3	618
Harhua	173	75	1	2	1	33	204	301	2	619
Kashividyapeeth	106	66	1	2	1	34	296	577	4	981
Pindra	191	104	1	2	1	23	273	230	1	635
Sewapuri	185	87	1	3	1	20	229	262	4	607
Total	1385	797	14	70	8	226	2563	2831	29	6538

SMO: Senior Medical Officer, MO: Medical Officer, HEO: Health Education Officer, MPHW: Multipurpose Health Worker, ANM: Auxiliary Nurse Midwife, ASHA: Accredited Social Health Activist

Cancer awareness program

While interacting with ANM/ASHA workers, a need of a cancer awareness program for ANM/ASHA and school teachers was observed. In the awareness meetings, emphasis was laid on the awareness of cancer signs and symptoms, risk factors and preventive measures especially on mouth, breast and cervix uteri cancer. Health education program explaining cancer registry activities, role of school teachers/ students and family members in the cancer registry program was also conducted.

Due to the cancer awareness program, the registry received valuable cooperation from ANM/ASHA workers in identifying the cancer cases in the community. The cancer awareness program conducted by the registry staff is mentioned in table 8.

Table 8: Cancer awareness program conducted by the registry staff

Date	Place/ Location	Beneficiary
8 th Mar, 2021	Arya Mahila P G College, Varanasi	Principal, Teachers, staffs and students and special guest SDM, Varanasi
16 th Mar, 2021	Rajkiya Women Degree College, Varanasi	Principal, Teachers, staffs and students
15 th Dec, 2021	Mahamana Malviya Inter College, Bachhawn	Principal, Teachers, staffs and students
17 th Dec, 2021	National Inter College, Block Pindra	Principal, Teachers, staffs and students
8 th Mar, 2022	Government Girls Polytechnic, Varanasi	Principal, Teachers, staffs and students
31 st May, 2022	Government ITI college, Varanasi	Principal, Teachers, staffs and students
31 st May, 2022	MPMMCC, Varanasi	Patient attended and Hospital staffs
31 st May, 2022	HBCH, Varanasi	Patient attended and Hospital staffs
2 nd Jun, 2022	Government Girls Polytechnic, Varanasi	Principal, Teachers, staffs and students
23 rd – 28 th Aug, 2022	DAE iconic week: Azadi ka Amrit Mahotsav	Government schools, in hospitals, Nagar Nigam, NDRF, Airport authorities, and policeline employees

7. Cancer cases registered by source of registration: First source of information

HBCH/ MPMCC served as a primary source of information for identifying newly diagnosed cancer cases whereas village visits as a major source for information on cancer death registration. More than 55% of incidence cases are registered from HBCH/ MPMCC as the first source of information. Also, the registry has covered 40.2% mortality and 28.0% incidence cases from village/ house visit due to effective interaction with the community. HBCH/ MPMCC and village/ house visit are the major sources for the data collection. The cancer incidence and death cases registered by the source of registration are mentioned in table 9 and table 10.

Table 9: Cancer cases information by the first source of cancer registration

Sr. No.	Source of registration	Male	%	Female	%	Total	%
1	Homi Bhabha Cancer Hospital/ MPMCC, Varanasi	1427	55.4	1154	58.2	2581	56.6
2	Village visit and house visit	741	28.8	534	26.9	1275	28.0
3	Tata Memorial Centre, Mumbai	141	5.5	77	3.9	218	4.8
4	Dr. Lal Pathology Centre, Varanasi	68	2.6	69	3.5	137	3.0
5	S. S. Hospital BHU, Varanasi	80	3.1	55	2.8	135	3.0
6	Apex Hospital, Varanasi	39	1.5	36	1.8	75	1.6
7	D. S. Research Centre, Varanasi	23	0.9	20	1.0	43	0.9
8	Nagar Nigam Death Office, Varanasi	24	0.9	11	0.6	35	0.8
9	S. G. Lab Jawhar Nagar, Varanasi	3	0.1	7	0.4	10	0.2
10	Heritage Hospital and Diagnostic Centre, Varanasi	11	0.4	4	0.2	15	0.3
11	IMS BHU Pathology, Varanasi	3	0.1	0	0.0	3	0.1
12	Ashirvad Nidan Kendra, Varanasi	3	0.1	0	0.0	3	0.1
13	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow	2	0.1	0	0.0	2	0.0
14	Pandit Deendayal Mandliya Hospital, Varanasi	0	0.0	2	0.1	2	0.0
15	Dr. Mohan Kumar Lab, Varanasi	2	0.1	0	0.0	2	0.0
16	Nirja Diagnostic, Varanasi	1	0.0	1	0.1	2	0.0
17	Other Source/ hospitals	9	0.3	12	0.6	21	0.5
Total		2577	100.0	1982	100.0	4559	100.0

Table 10: Cancer death information by the first source of cancer registration

Sr. No.	Source of registration	Male	%	Female	%	Total	%
1	Village visit and house visit	607	39.1	451	41.9	1058	40.2
2	Homi Bhabha Cancer Hospital/ MPMMCC, Varanasi	530	34.1	375	34.9	905	34.4
3	S. S. Hospital BHU, Varanasi	125	8.0	76	7.1	201	7.6
4	Tata Memorial Centre, Mumbai	91	5.9	49	4.6	140	5.3
5	Dr. Lal Pathology Centre, Varanasi	67	4.3	45	4.2	112	4.3
6	Apex Hospital, Varanasi	47	3.0	28	2.6	75	2.9
7	Nagar Nigam Death Office, Varanasi	39	2.5	19	1.8	58	2.2
8	D. S. Research Centre, Varanasi	24	1.5	22	2.0	46	1.7
9	Heritage Hospital and Diagnostic Centre, Varanasi	7	0.5	1	0.1	8	0.3
10	IMS BHU Pathology, Varanasi	3	0.2	0	0.0	3	0.1
11	Prakash Pathology, Varanasi	0	0.0	3	0.3	3	0.1
12	S. G. Lab Jawhar Nagar, Varanasi	1	0.1	2	0.2	3	0.1
13	Railway Cancer Hospital, Varanasi	2	0.1	0	0.0	2	0.1
14	Popular Hospital, Varanasi	1	0.1	1	0.1	2	0.1
15	Kamala Nehru Memorial Hospital, Allahabad	1	0.1	1	0.1	2	0.1
16	Ashirvad Nidan Kendra, Varanasi	2	0.1	0	0.0	2	0.1
17	Other Sources/ Hospitals	7	0.5	3	0.3	10	0.4
Total		1554	100.0	1076	100.0	2630	100.0

8. 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 2018-2019, 4,559 incident cancer cases (2,577 males (56.5%) and 1,982 females (45.3%)) have been registered by PBCR Varanasi. For the same period, 2,630 cancer deaths have been registered (1,554 males (59.1%) and 1,076 females (40.9%)). The overall mortality to incidence ratio is 0.58 (males 0.60 and females 0.54). The MI ratio is comparable to other established rural PBCRs in India. ⁽¹⁾

Reabstraction 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, a need 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 retrained by CCE-TMC, Mumbai. The data was modified and re-entered.

Incidence rates of childhood cancers

In the year 2018-2019, PBCR has registered 70 cancer cases in boys and 25 in girls. The age-specific rates reported the paediatric cancer are mentioned in table 11.

Table 11: Incidence rate of paediatric cancer cases in Varanasi district: 2018-2019

Age group	Boys		Girls	
	Number of Cases	Age-Specific Rate	Number of Cases	Age-Specific Rate
0 – 4	18	62.1	6	24.8
5 – 9	24	59.6	7	20.7
10 – 14	28	56.3	12	26.3
Age Adjusted Rate per 1,000,000 (AAR per million)	59.6		23.9	

The age-adjusted incidence rate for the paediatric age group (0-14) was 59.6 per million for boys and 23.9 per million for girls. As per the International Incidence of Childhood Cancer volume III, the incidence rate for boys and girls is less than 60 per million ⁽¹⁰⁾. There is under-reporting of the paediatric cancer cases diagnosed in the district. The underreporting is more in girls as compared to boys. We need to undertake studies to find out the reason for the

under-reporting of paediatric cancer cases. Of the total cases registered, 2% of them belong to paediatric cancer.

The microscopic confirmation was 77.1% in boys and 84.0% in girls.

Microscopic verification of the cases

In the year 2018-2019, out of 2,577 male cases, 1,690 cases (65.6%) were diagnosed with microscopic verification. 11.2% of cases were diagnosed based on radiological findings and 8.2% of cases were diagnosed clinically. Most of the other and unspecified cases were based on verbal autopsy i.e. relative's remark (eg. Primary site unknown cases).

In females, out of 1,982 cases, we have 1,286 cases (65.0%) diagnosed with microscopic verification. 12.9% of cases were diagnosed on radiological findings and 8.1% of cases were diagnosed clinically.

Cases registered based on narrations by the patient's relatives

While interacting with the community in the villages as well as in the urban areas, it was observed that patient's relatives burned the medical records after the death of the patient. In some cases, even after consulting the oncologist/ cancer centre, patients have not completed the prescribed treatment due to social/financial issues. Many of these patients also burned their pathology/ CT scan/ discharge summary paper. In this case, we have interacted with the patient's relatives and we have asked the following questions:

1. Where was the patient diagnosed? Which hospital did the patient visit?
2. What was the opinion of the treating consultants?
3. Whether the patient has taken any chemotherapy/ radiotherapy
4. Where did the patients undergo an MRI/CT scan/USG?

The registry tried identifying evidence based on the patient's/ patient's relatives' narration; like, verbally giving the date of biopsy or patient mentioning the received chemotherapy/radiotherapy/surgery or the name of the medical/ surgical/ radiation oncologist that patient was taking treatment from. We register the cancer case based on the information gathered through these narrations.

The registry staff also follow-back these cases in the treating hospital. However, a majority of times, the staff do not get the medical records from the treating hospital.

Such a cancer registration approach was used by the Barshi, Sangrur, and Mansa registries as well as by the Gadchiroli cancer registry. In the coming years, due to awareness in the population and due to the health insurance scheme, we may get the medical record from the cancer centres or government health insurance scheme office.

Death Certificate Only (DCO) Cases

We have registered 382 (14.9%) cases in males and 276 (14.0%) cases in females under the DCO/Other categories. The death cases have been registered based on the narration/relative's remarks/discharge summary available with the patient's relative. In principle, they are not registered based on the death certificate only because the death certificate does not have the documentation as a cancer death.

Per source case registration

The number of sources per incidence case registered was noted. The cases were counted as per source notification. In Varanasi, the average number of sources per case registered is 2.5. Due to field interactions, the coverage is satisfactory.

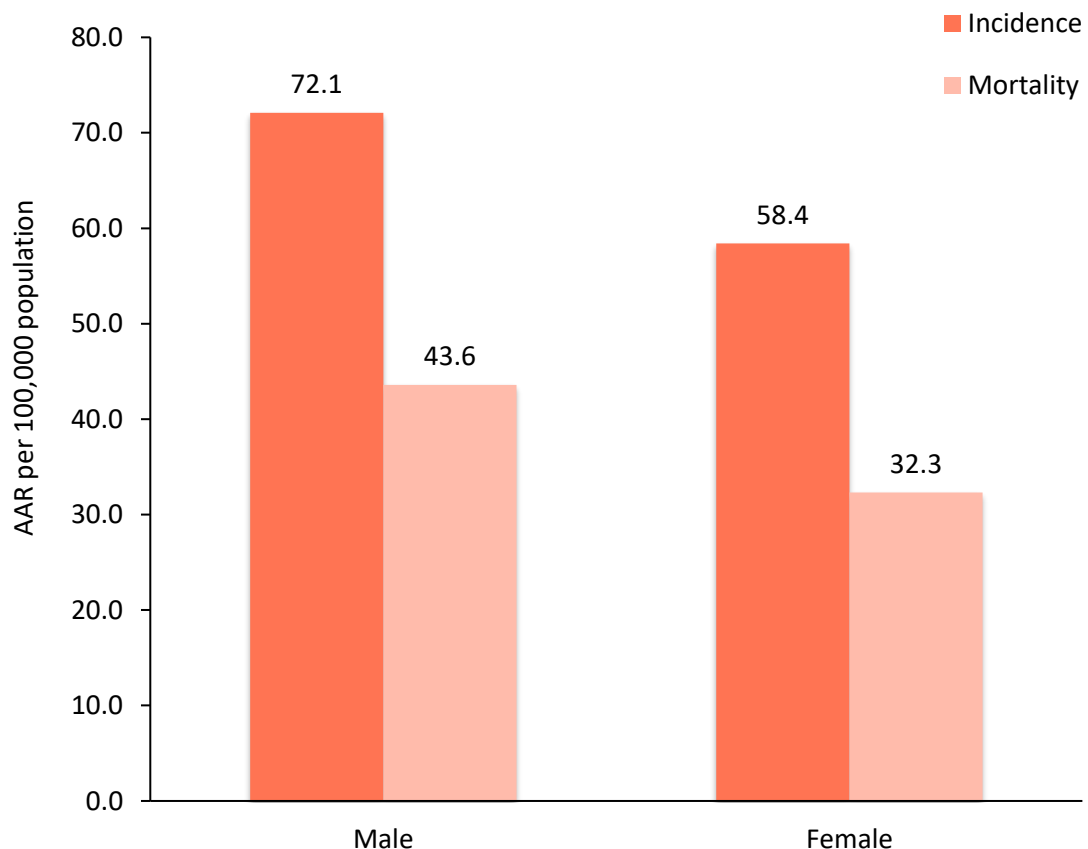
Source	Number of cases confirm
Source 1	4559
Source 2	3510
Source 3	2214
Source 4	734
Source 5	213
Source 6	65
Source 7	16
Source 8	8
Total sources	11319
Per source of registration	2.5 (11319/4559)

9. Cancer incidence and mortality: all sites

In the year 2018-2019, the cancer registry registered 4,559 cancer cases. There were 2,577 male (56.5%) cases and 1,982 female (43.5%) cases. The age-adjusted incidence rate for males was 72.1 per 100,000 population and for females, it was 58.4 per 100,000 population.

In the year 2018-2019, the cancer registry registered 2,630 cancer deaths of which 1,554 were male (59.1%) deaths and 1,076 were female (40.9%) deaths. The age-adjusted mortality rate for males was 43.6 per 100,000 population and for females, it was 32.3 per 100,000 population. 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 sex: 2018-2019 (Varanasi district)



10. Leading cancer sites by gender

Among males; mouth, tongue, gall bladder, lung, liver, prostate, stomach, oesophagus, larynx and lip were the leading cancer sites. The top ten leading cancer sites for males are presented in figure 6. Among females; breast, gall bladder, cervix uteri, ovary, mouth, liver, lung, tongue, stomach, and corpus uteri were the leading cancer sites. The top ten leading cancer sites for females are presented in figure 7.

Figure 6: Leading cancer sites in males: 2018-2019

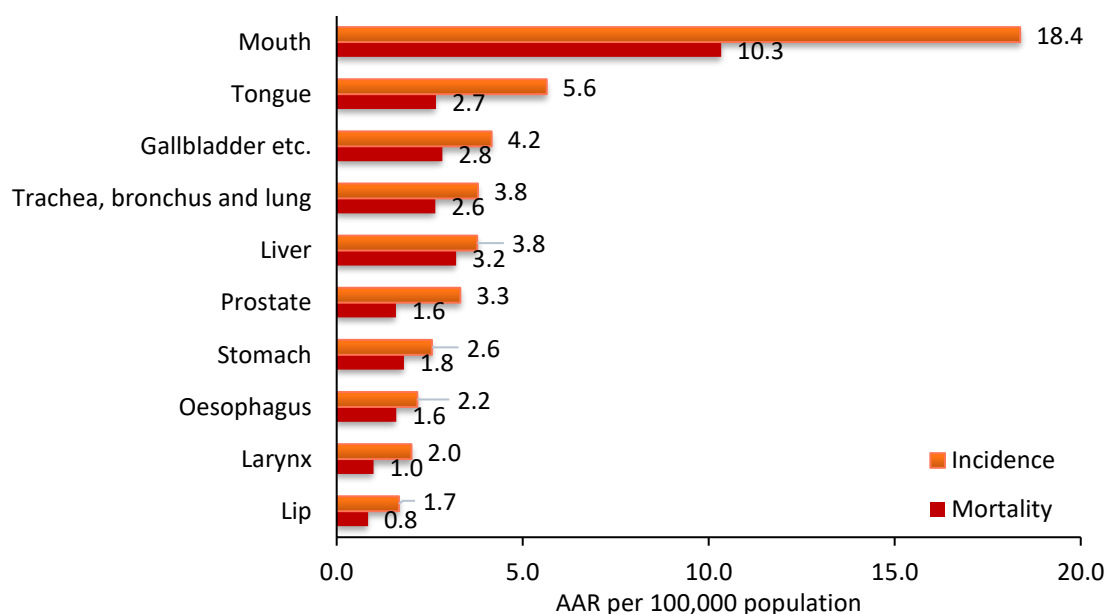
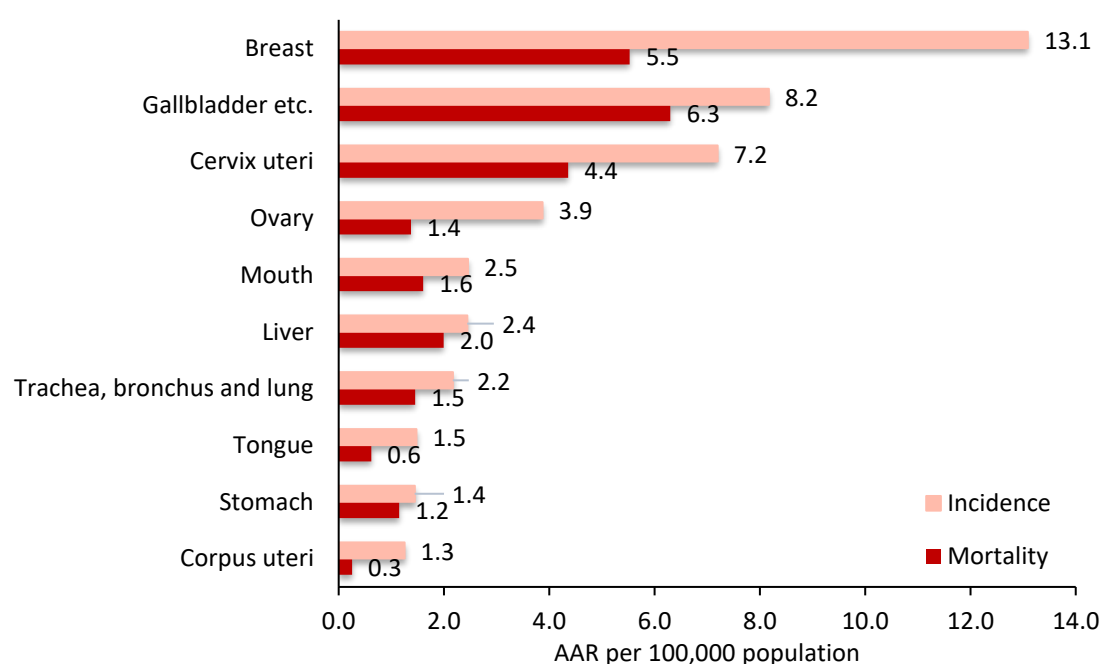


Figure 7: Leading cancer sites in females: 2018-2019



Comparison of leading cancer sites with other Indian registries

The site-wise cancer cases details are shown in respective tables below with crude rate, age-adjusted incidence rate, and truncated rate. The age-specific incidence rate for males and females for each site, as well as comparisons with other Indian registries, are also depicted in the respective figures below.

Cancer of mouth (C03-C06)

	Male	Female
Number of cases	660	83
% of total cases	25.6	4.2
Crude Incidence Rate per 100,000	15.7	2.2
Age-Adjusted Incidence Rate per 100,000	18.4	2.5
Truncated Rate per 100,000	46.1	5.4

Figure 8: Age-specific incidence rate of cancer of mouth: 2018-2019 (Varanasi district)

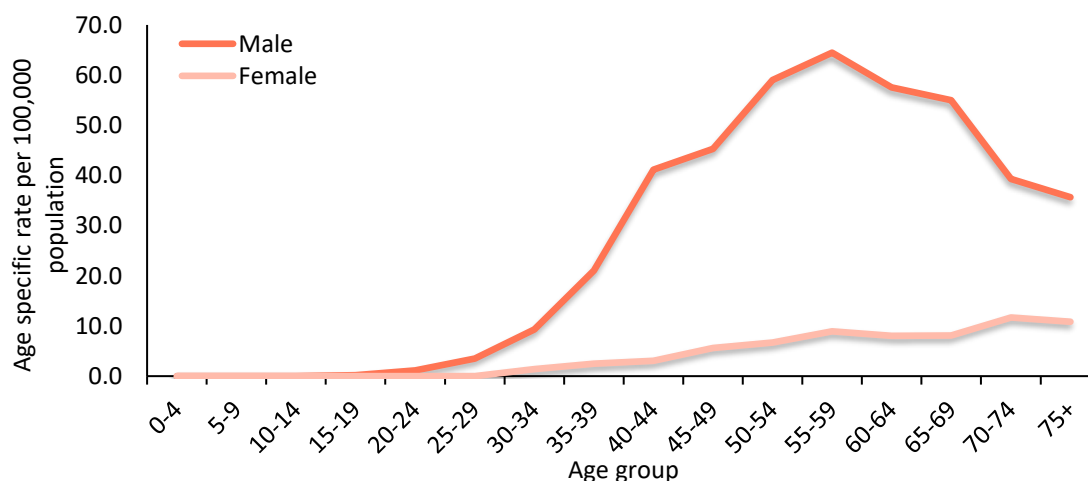
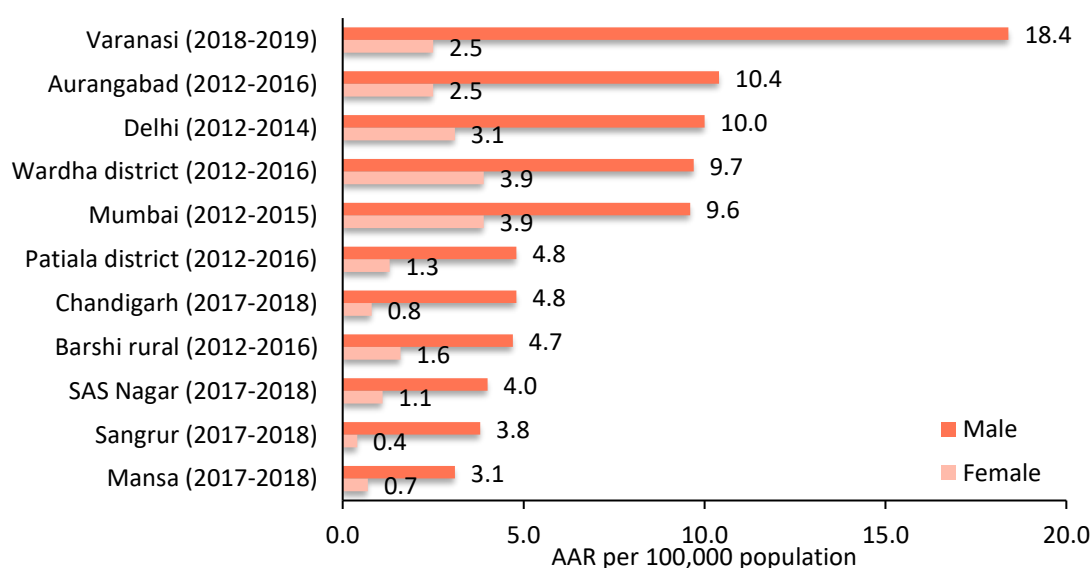


Figure 9: Comparison of mouth cancer incidence rate with other Indian registries



Cancer of tongue (C01-C02)

	Male	Female
Number of cases	205	48
% of total cases	8.0	2.4
Crude Incidence Rate per 100,000	4.9	1.2
Age-Adjusted Incidence Rate per 100,000	5.6	1.5
Truncated Rate per 100,000	13.4	2.9

Figure 10: Age-specific incidence rate of cancer of tongue: 2018-2019 (Varanasi district)

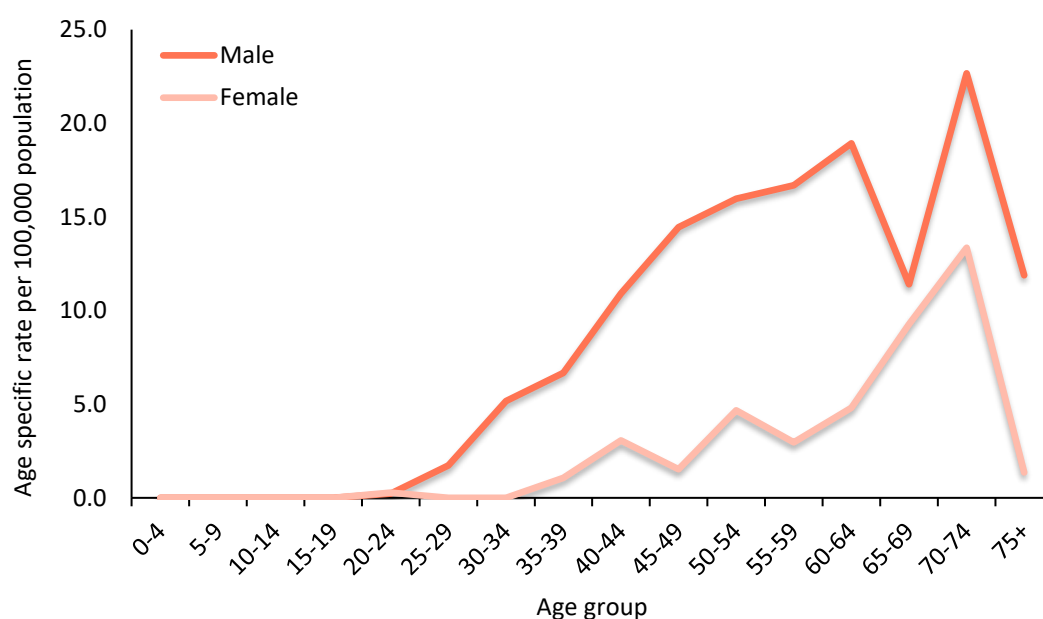
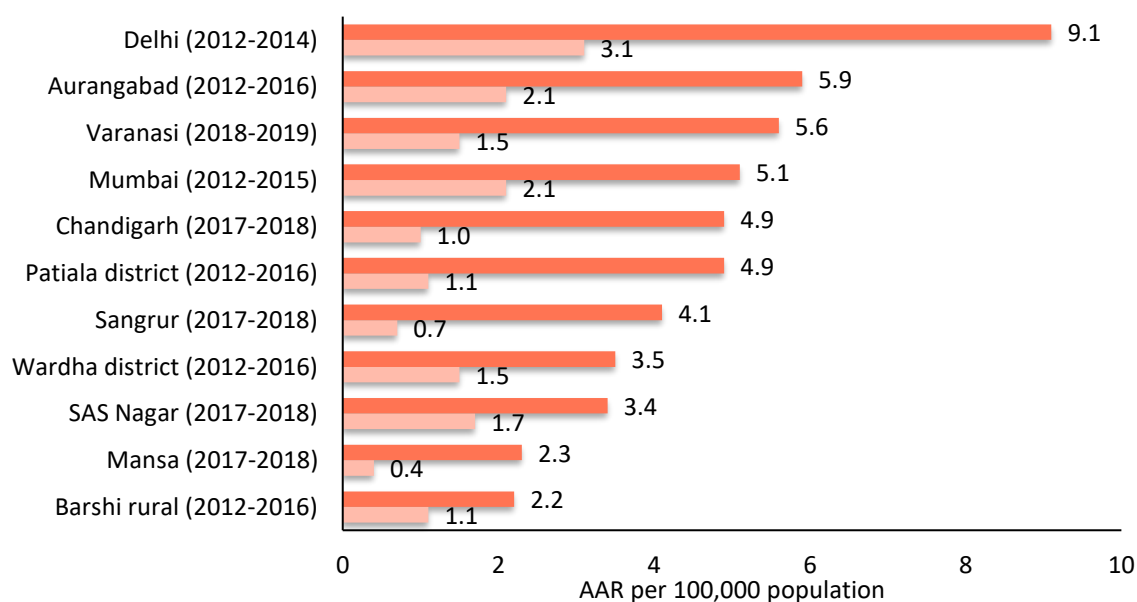


Figure 11: Comparison of tongue cancer incidence rate with other Indian registries



Cancer of gall bladder (C23-C24)

	Male	Female
Number of cases	143	270
% to total cases	5.5	13.6
Crude Incidence Rate per 100,000	3.4	7.0
Age Adjusted Incidence Rate per 100,000	4.2	8.2
Truncated Rate per 100,000	8.7	18.6

Figure 12: Age-specific incidence rate of cancer of gall bladder: 2018-2019 (Varanasi district)

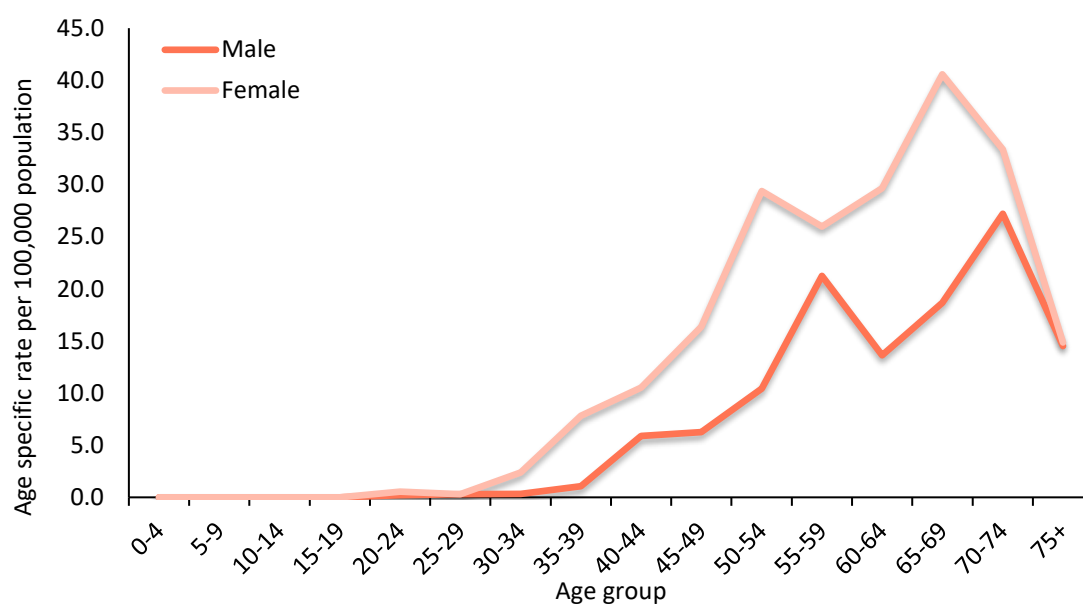
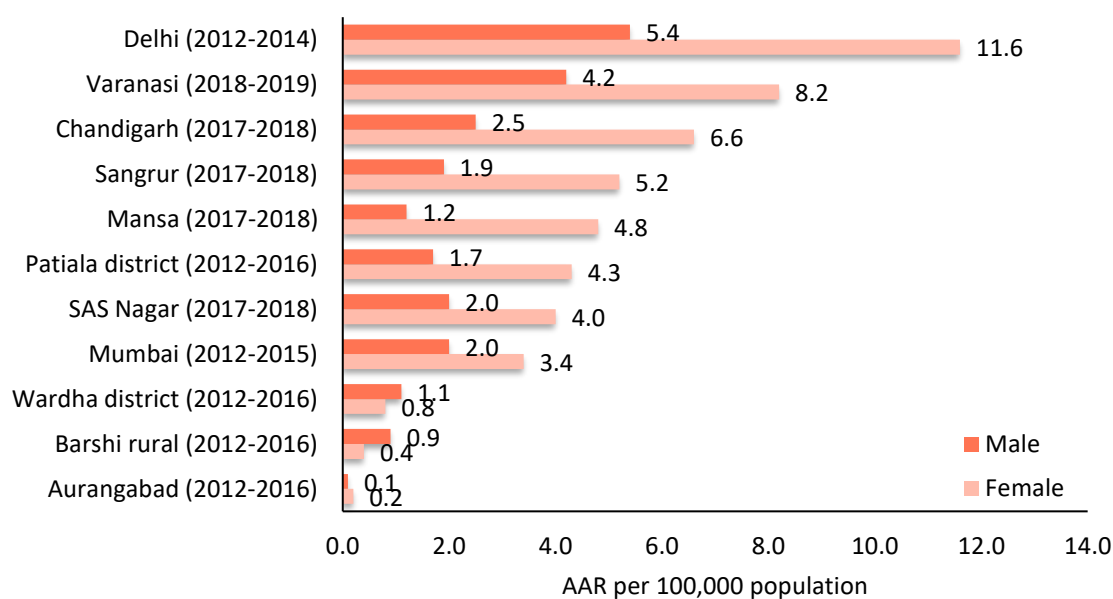


Figure 13: Comparison of gall bladder cancer incidence rate with other Indian registries



Cancer of trachea, bronchus and lung (C33-C34)

	Male	Female
Number of cases	131	72
% to total cases	5.1	3.6
Crude Incidence Rate per 100,000	3.1	1.9
Age Adjusted Incidence Rate per 100,000	3.8	2.2
Truncated Rate per 100,000	5.7	4.5

Figure 14: Age-specific incidence rate of cancer of trachea, bronchus and lung: 2018-2019 (Varanasi district)

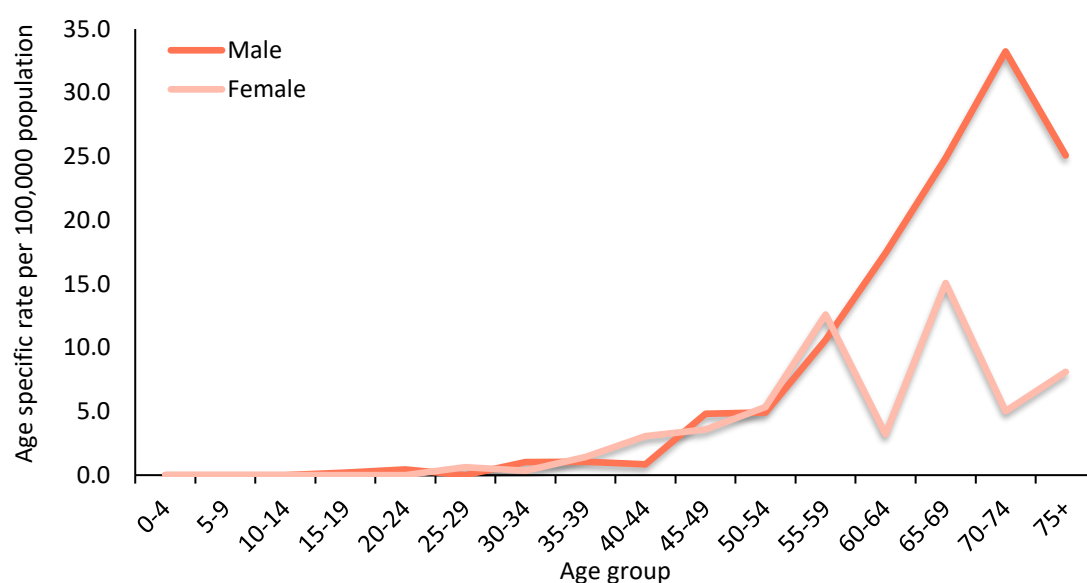
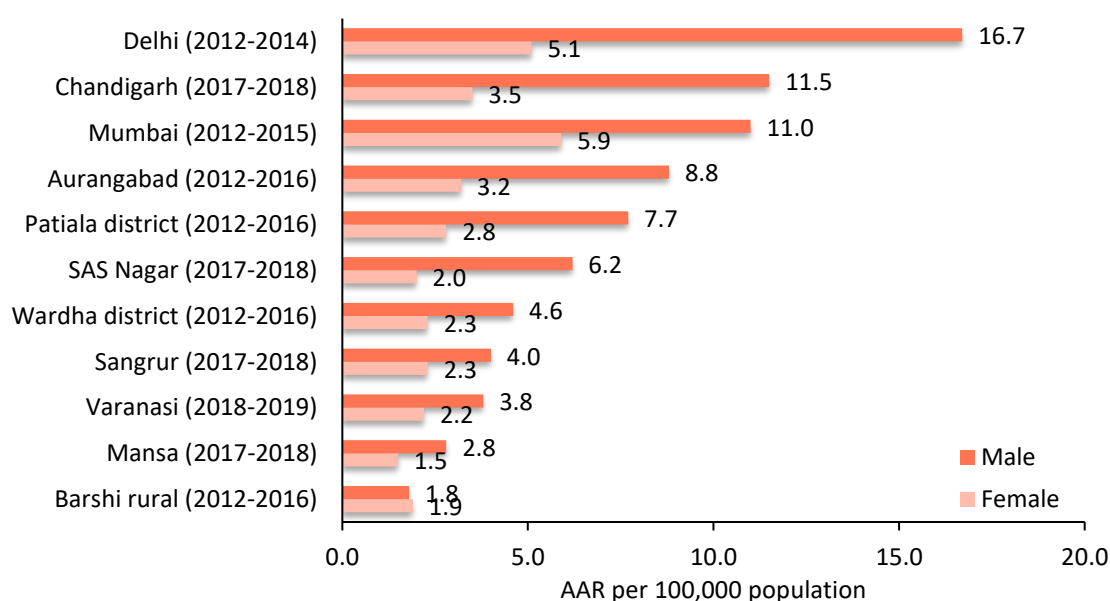


Figure 15: Comparison of trachea, bronchus and lung cancer incidence rate with other Indian registries



Cancer of liver (C22)

	Male	Female
Number of cases	131	82
% of total cases	5.1	4.1
Crude Incidence Rate per 100,000	3.1	2.1
Age-Adjusted Incidence Rate per 100,000	3.8	2.4
Truncated Rate per 100,000	7.0	5.8

Figure 16: Age-specific incidence rate of cancer of liver: 2018-2019 (Varanasi district)

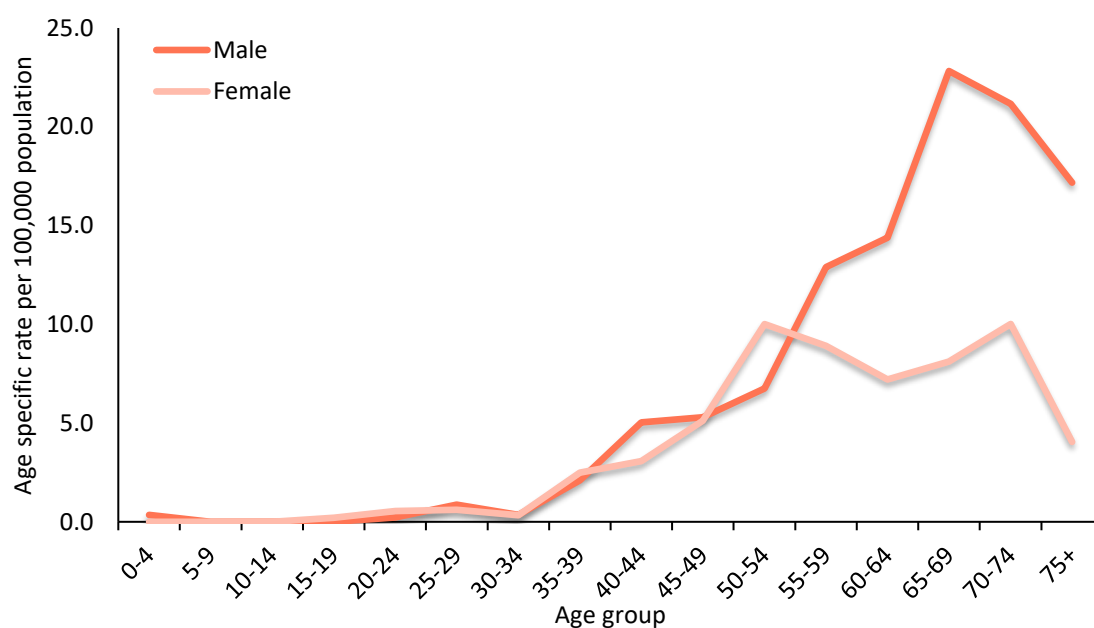
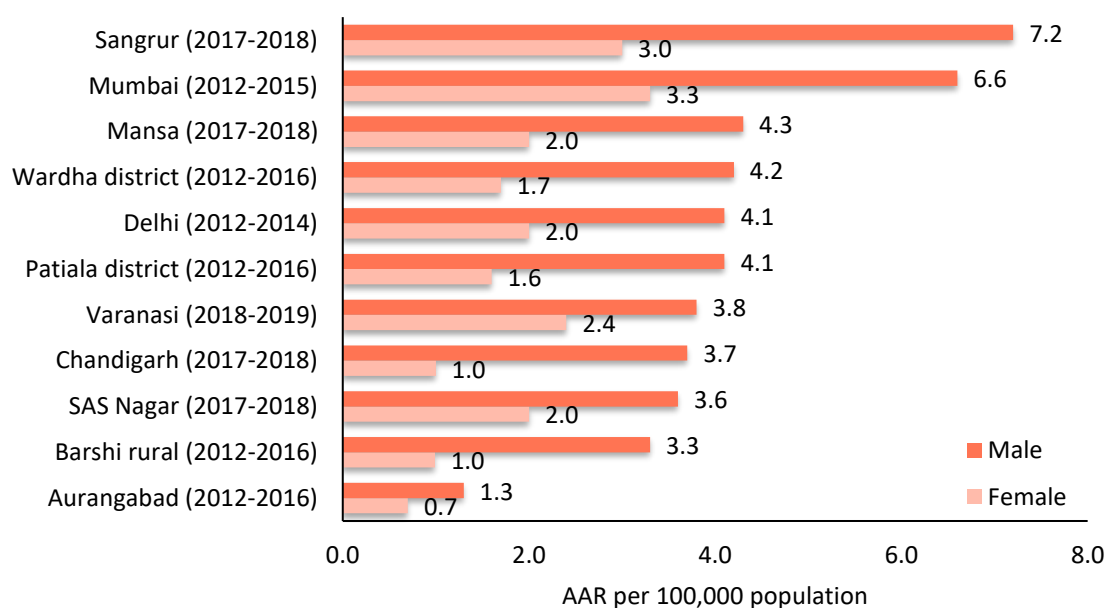


Figure 17: Comparison of liver cancer incidence rate with other Indian registries



Cancer of prostate (C61)

Number of cases	113
% of total cases	4.4
Crude Incidence Rate per 100,000	2.7
Age-Adjusted Incidence Rate per 100,000	3.3
Truncated Rate per 100,000	3.7

Figure 18: Age-specific incidence rate of cancer of prostate: 2018-2019 (Varanasi district)

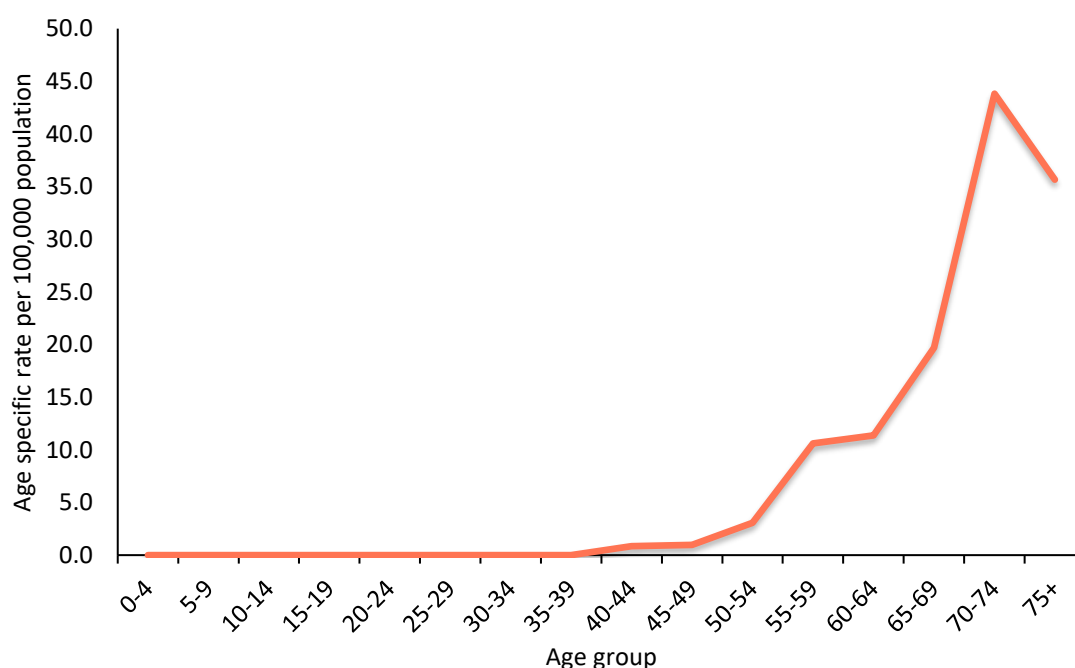
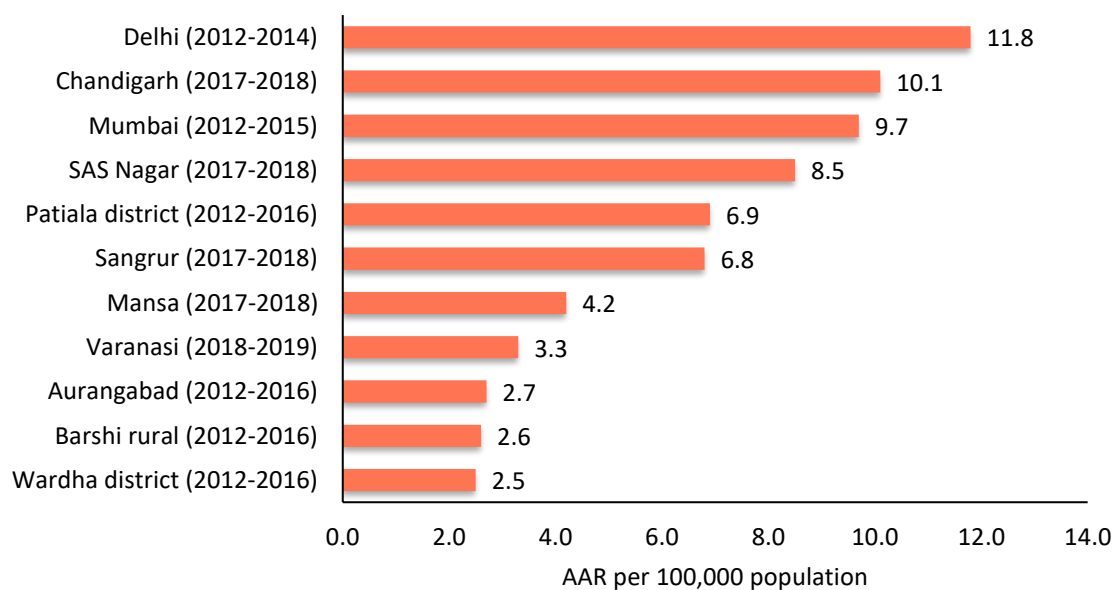


Figure 19: Comparison of prostate cancer incidence rate with other Indian registries



Cancer of breast (C50)

	Female
Number of cases	450
% of total cases	22.7
Crude Incidence Rate per 100,000	11.7
Age-Adjusted Incidence Rate per 100,000	13.1
Truncated Rate per 100,000	32.0

Figure 20: Age-specific incidence rate of cancer of breast: 2018-2019 (Varanasi district)

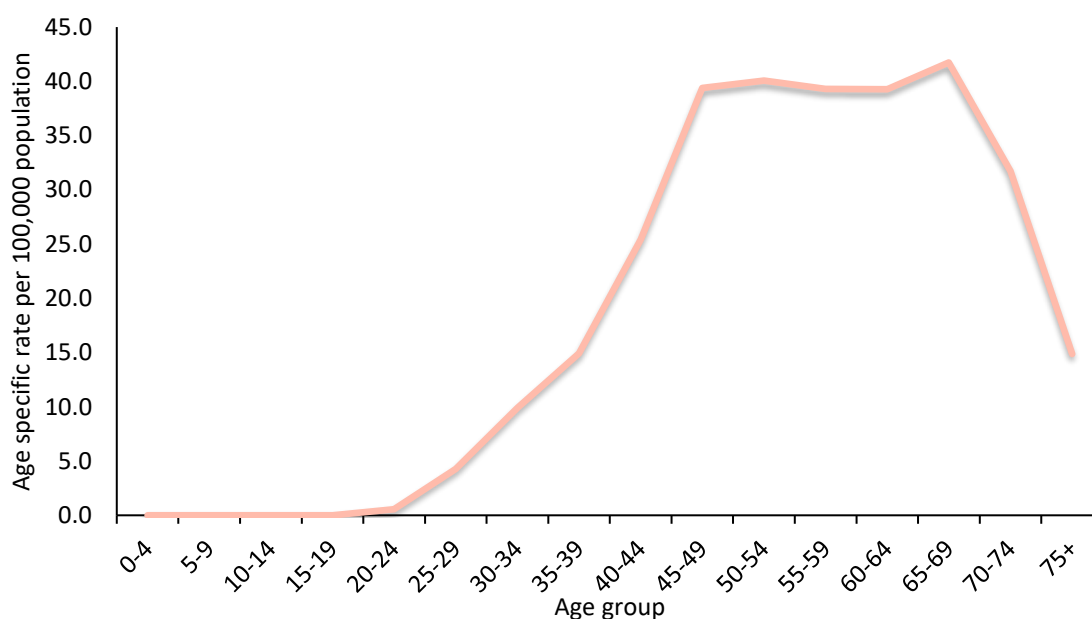
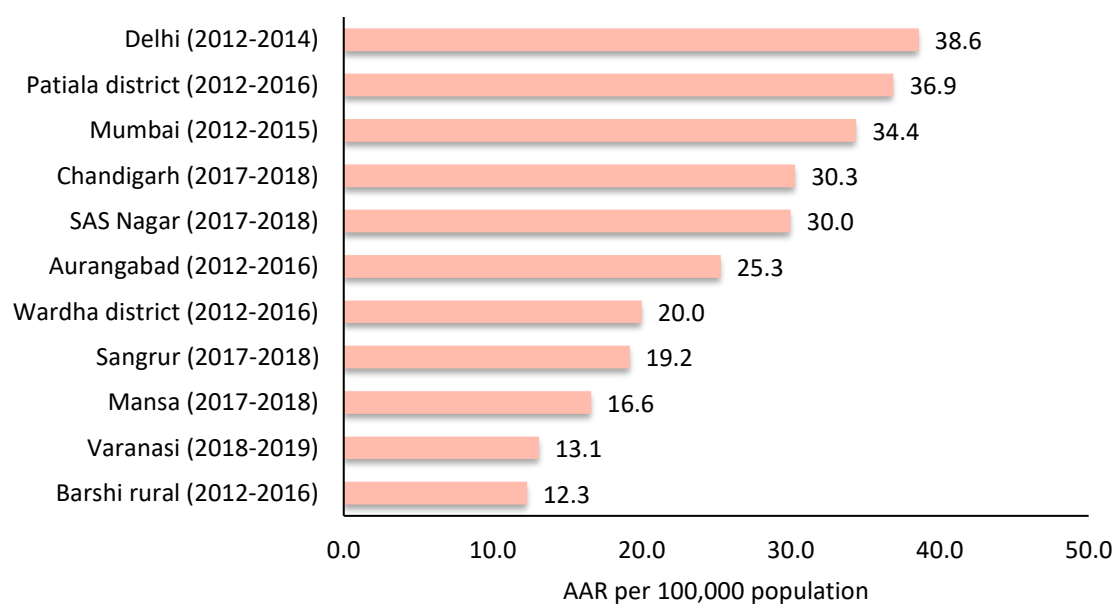


Figure 21: Comparison of breast cancer incidence rate with other Indian registries



Cancer of cervix uteri (C53)

Number of cases	239
% of total cases	12.1
Crude Incidence Rate per 100,000	6.2
Age-Adjusted Incidence Rate per 100,000	7.2
Truncated Rate per 100,000	16.7

Figure 22: Age-specific incidence rate of cancer of cervix uteri: 2018-2019 (Varanasi district)

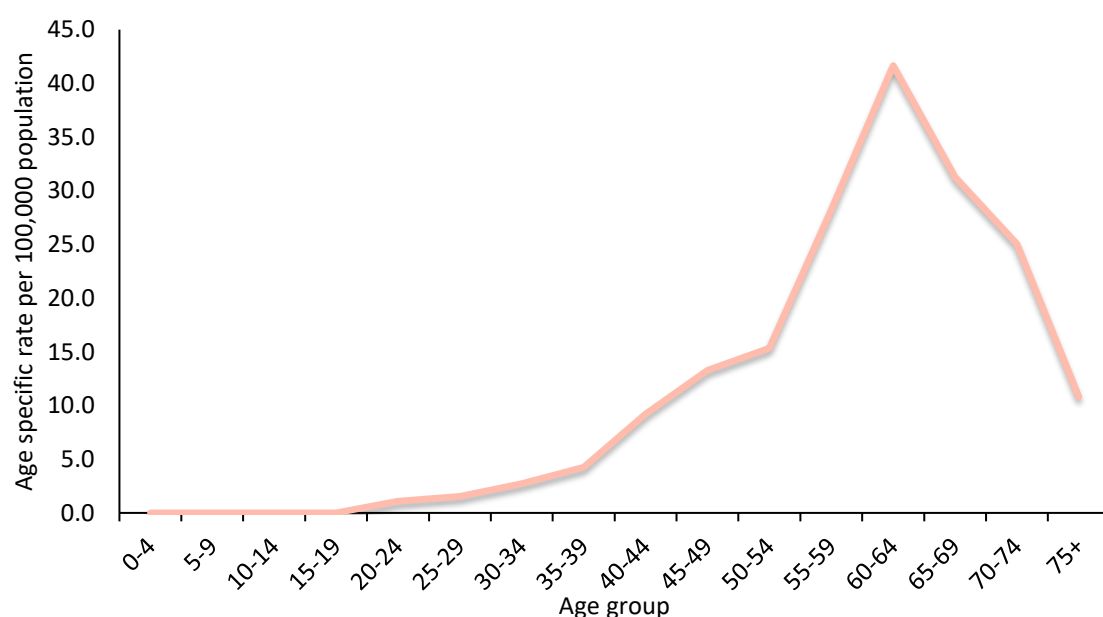
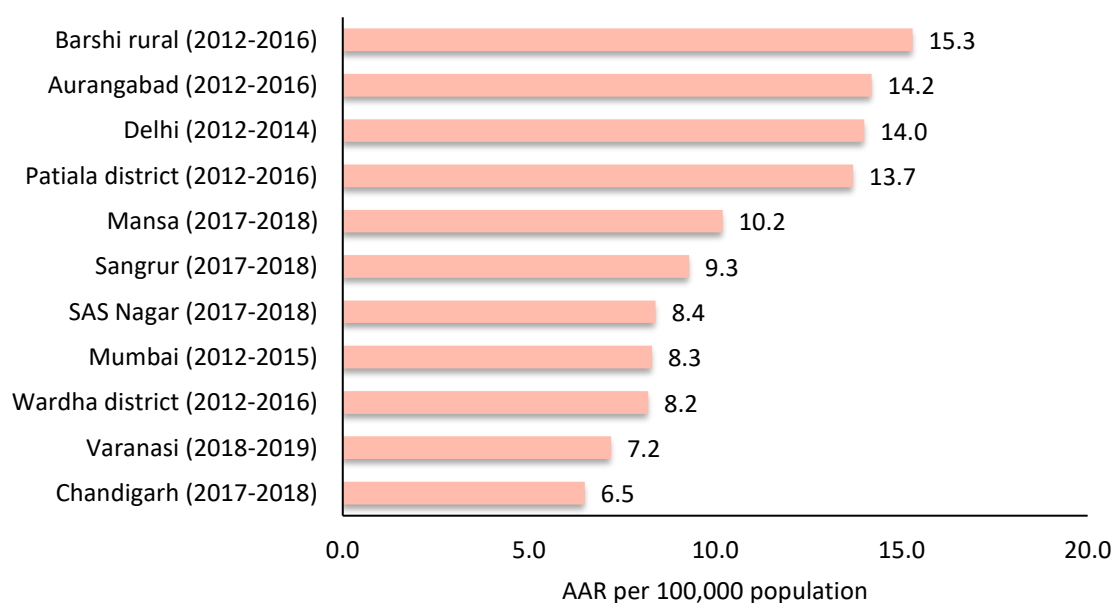


Figure 23: Comparison of cervix uteri cancer incidence rate with other Indian registries



Cancer of ovary (C56)

Number of cases	136
% to total cases	6.9
Crude Incidence Rate per 100,000	3.5
Age Adjusted Incidence Rate per 100,000	3.9
Truncated Rate per 100,000	9.0

Figure 24: Age-specific incidence rate of cancer of ovary: 2018-2019 (Varanasi district)

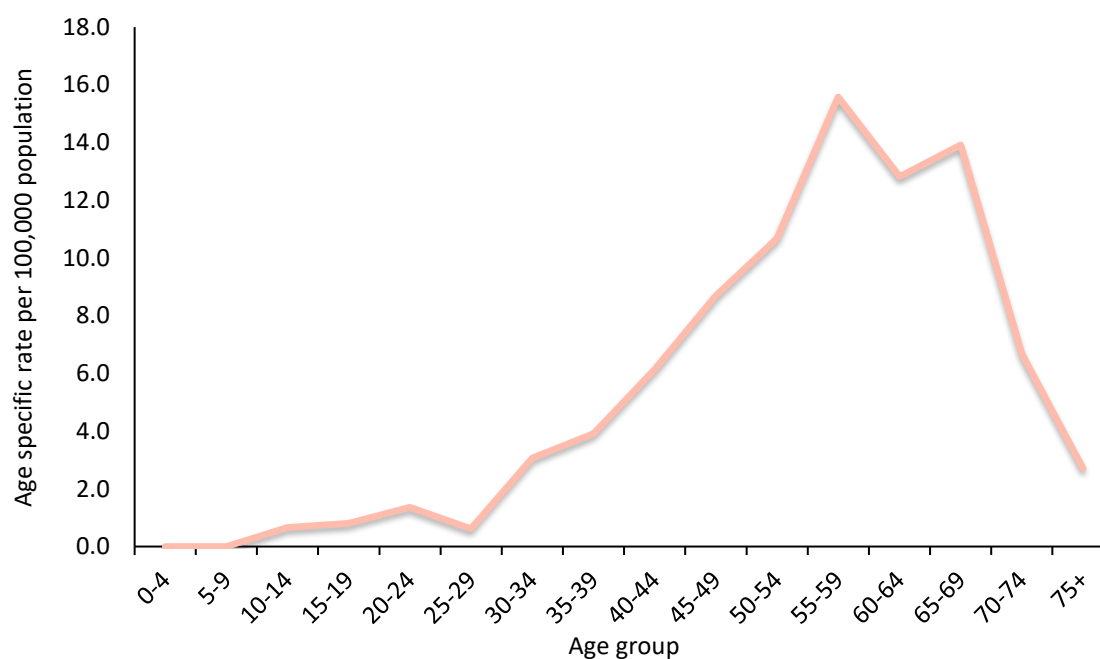


Figure 25: Comparison of ovary cancer incidence rate with other Indian registries

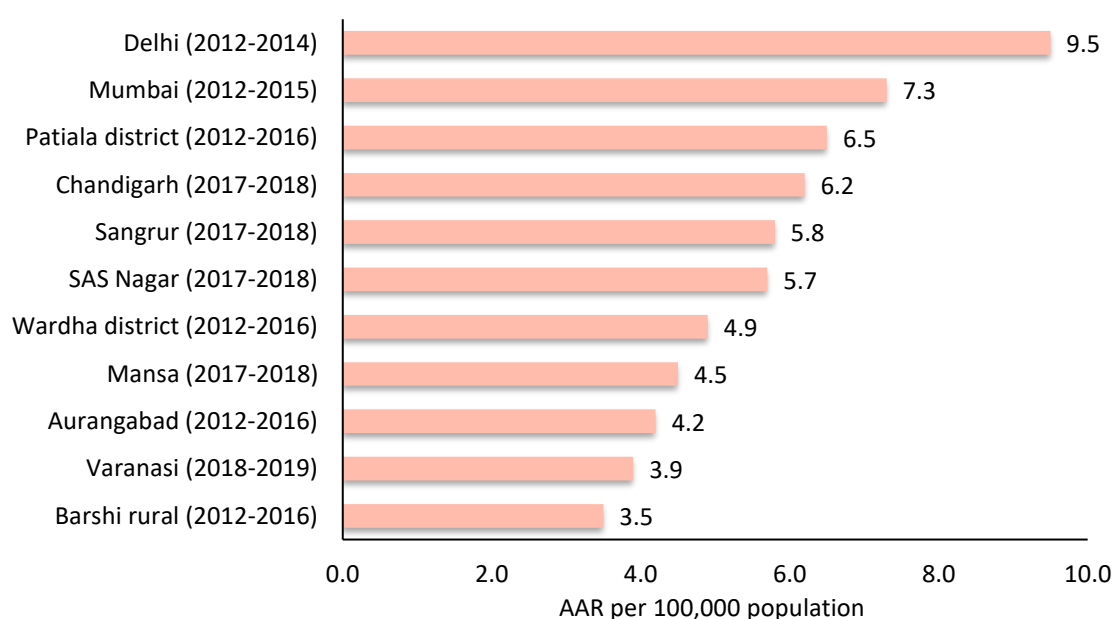
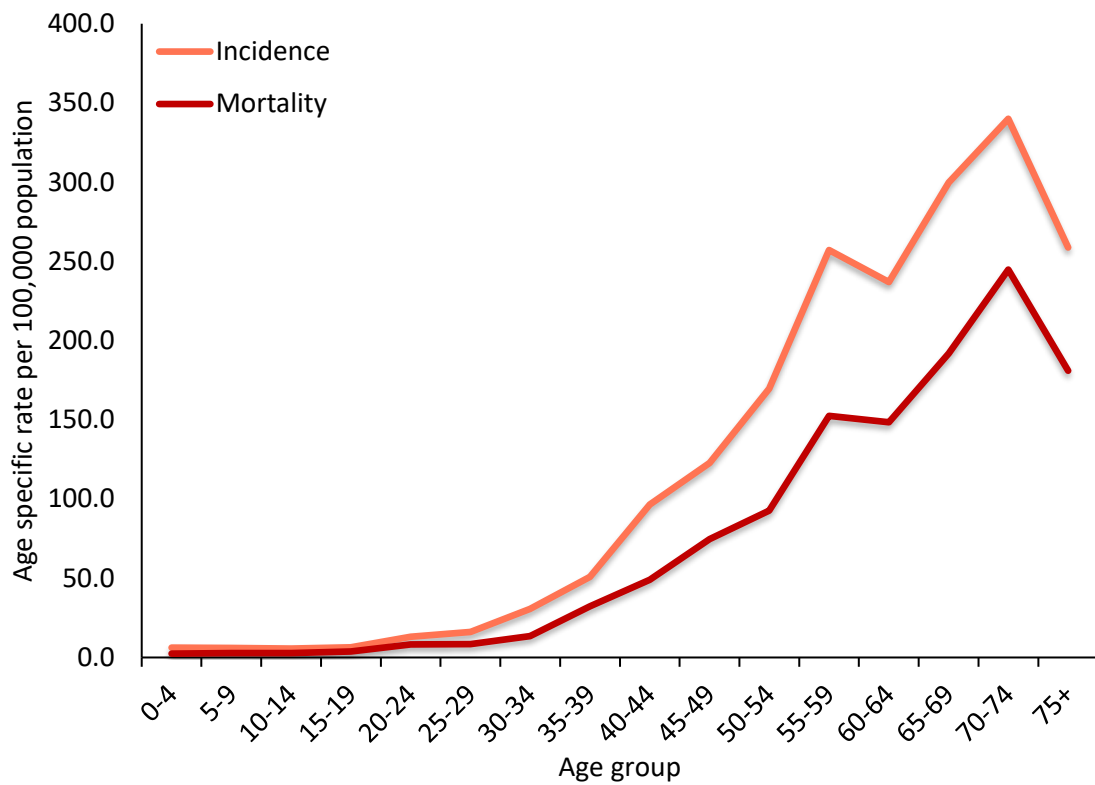
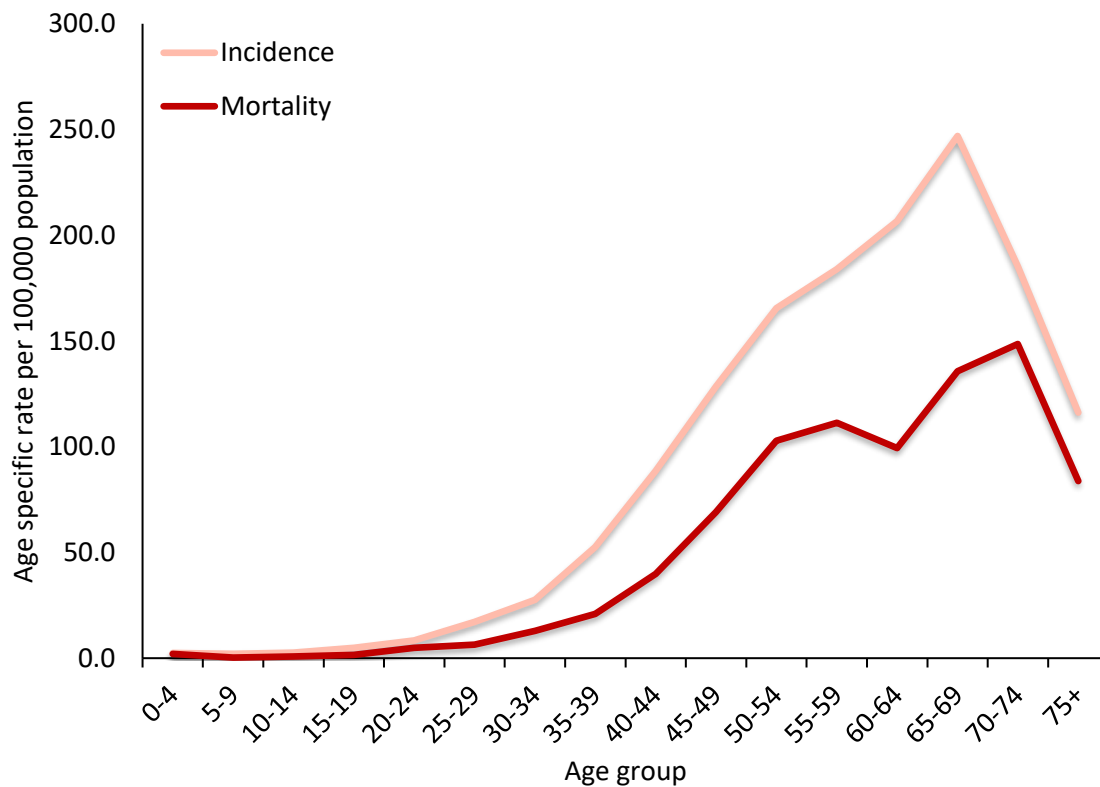


Figure 26: Age specific incidence and mortality rate – male all sites**Figure 27: Age specific incidence and mortality rate – female all sites**

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 Within Respiratory Systems and Intra thoracic Organ	C78	Secondary Malignant Neoplasm of Respiratory and Digestive Organs,
C48	Retro Peritoneum and Peritoneum,	C79	Secondary Malignant Neoplasm of Other and Unspecified Sites
C75	Other Endocrine Glands and Related Structures,	C80	Malignant Neoplasm Without Specification of Site
C76	Other and Ill-Defined, Secondary and Unspecified sites	C97	Malignant Neoplasm of Independent (Primary) Multiple sites

In males, out of 2,577 cases, 174 (6.8%) cases were of other and unspecified sites. The predominant cases were of C80 – primary unknown (3.9%), followed by C76 – other and ill-defined, secondary and unspecified sites (2.2%), and other sites (0.7%). In females, out of 1,982 cases, 85 (4.3%) cases were of other and unspecified sites. The predominant cases were of C80 – primary unknown (2.4%), followed by C76 – other and ill-defined, secondary and unspecified sites (1.1%), and other sites (0.9%). The details are presented in table 12.

In the coming years, it is anticipated that the percentage of the primary site unknown will decrease due to improvements in the diagnostic and treatment facility.

Table 12: Other and unspecified cases by sex

ICD 10	Male		Female	
	Number	%	Number	%
C26	9	0.3	5	0.3
C48	2	0.1	7	0.4
C75	3	0.1	0	0.0
C76	56	2.2	22	1.1
C77	4	0.2	4	0.2
C78	0	0.0	0	0.0
C79	0	0.0	0	0.0
C80	100	3.9	47	2.4
Total	174/2577	6.8/100.0	85/1982	4.3/100.0

Cancer of other and unspecified (C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

	Male	Female
Number of cases	174	85
% to total cases	6.8	4.3
Crude Incidence Rate per 100,000	4.1	2.2
Age Adjusted Incidence Rate per 100,000	4.8	2.5
Truncated Rate per 100,000	9.2	4.7

Figure 28: Age-specific incidence rate of cancer of other and unspecified: 2018-2019 (Varanasi district)

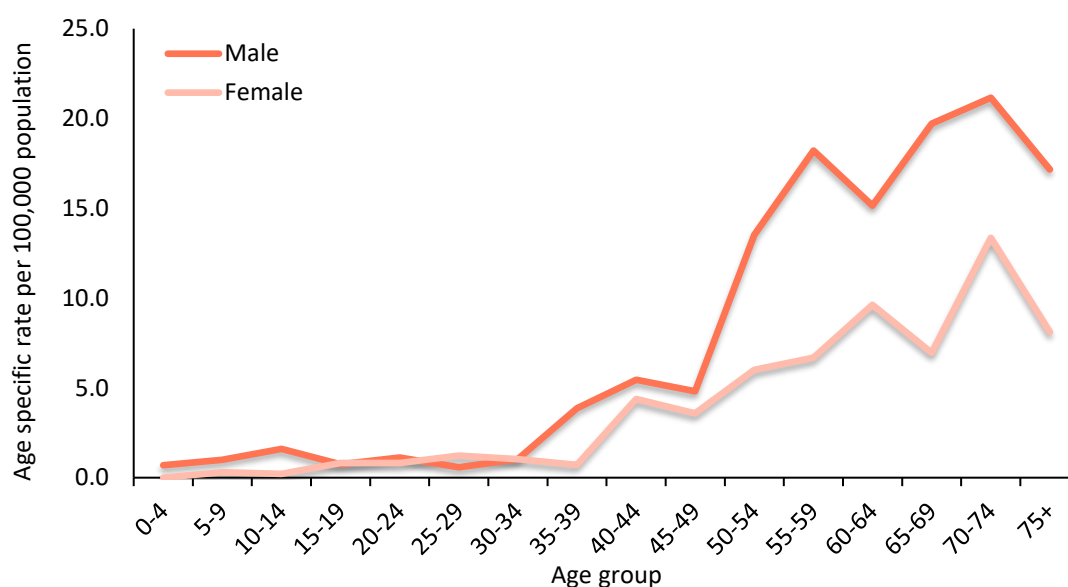
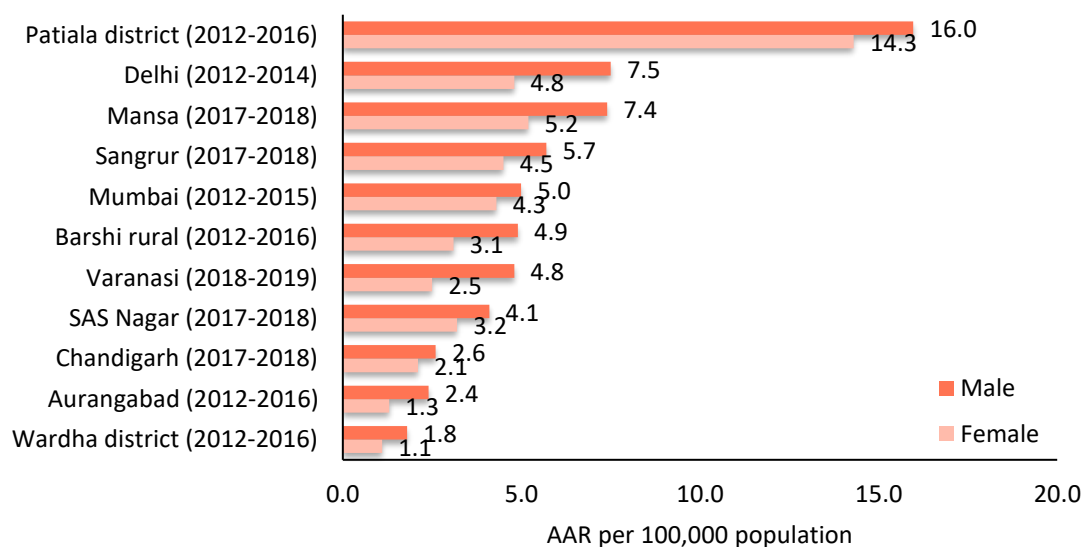


Figure 29: Comparison of other and unspecified cancer incidence rate with other Indian registries



11. Cancer pattern in urban and rural areas

The cancer registry covers 57% of rural areas and 43% of urban areas. The estimated population for the year 2018-2019 for urban area is 18,51,777 (male: 980,949, female: 8,70,828) and rural area is 21,80,632 (male: 11,27,929, female: 10,52,703). We have observed the difference in the cancer incidence rate in urban and rural areas. The urban area cancer incidence rate in males was 68.0 per 100,000 population whereas it was 76.1 per 100,000 population in rural areas. In females, the rural area cancer incidence rates are higher as compared to the urban area. The cancer incidence rate by the area and sex is mentioned in figure 30. The all site cancer mortality by area and sex is mentioned in figure 31.

Figure 30: All sites cancer incidence rate by area and sex: 2018-2019 (Varanasi district)

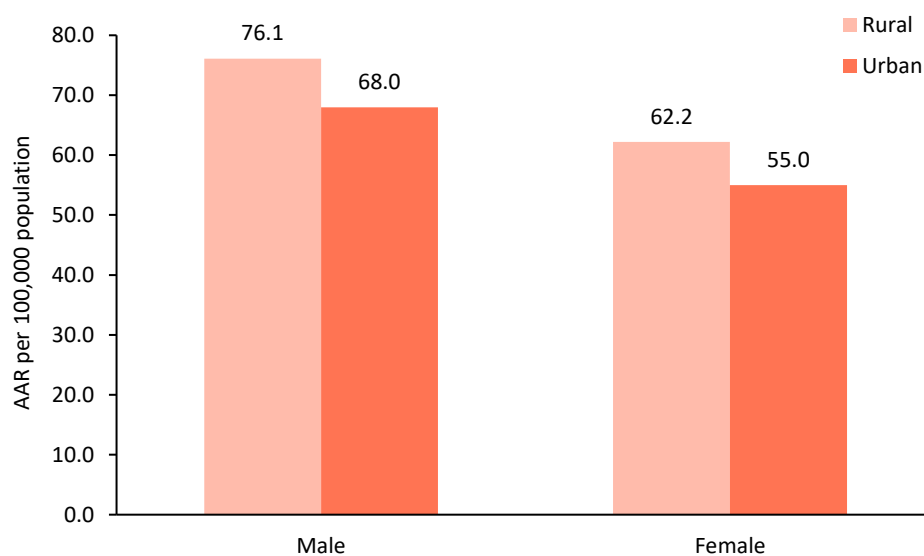
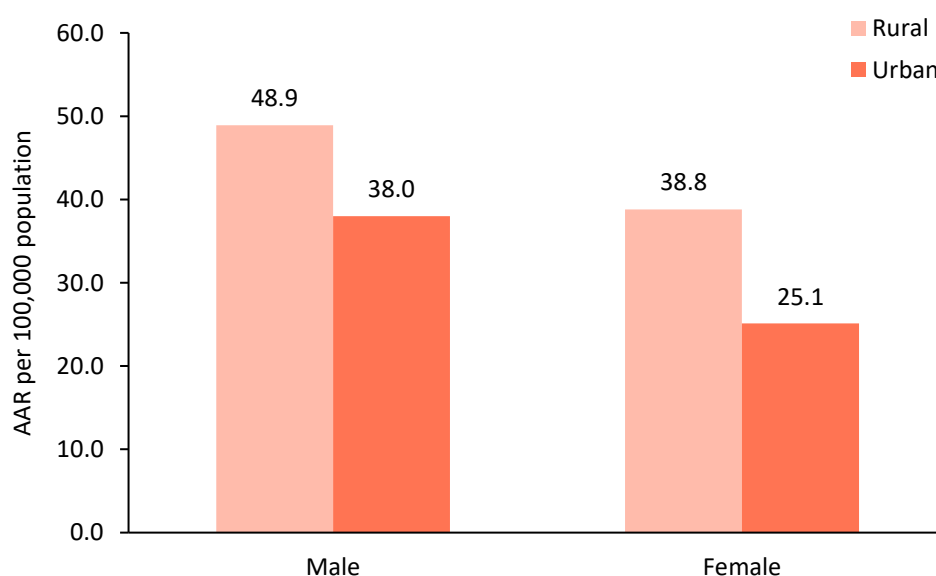


Figure 31: All site cancer mortality rate by area and sex: 2018-2019 (Varanasi district)



Leading cancer sites in rural and urban area

In males, mouth cancer incidence rates are similar for urban (18.2 per 100,000 population) and rural (18.5 per 100,000 population) areas. For females, mouth cancer incidence rate in urban population is 37% lower than rural population (RR (Rate Ratio) 0.63, 95% CI 0.41-0.99).

Among females, the cervical cancer incidence rate in Varanasi urban population is 37% lower than rural population (RR 0.63, 95% CI 0.48-0.81). Whereas, the breast cancer incidence rate in Varanasi urban female population is 12% higher than rural population (RR 1.12, 95% CI 0.93-1.35).

The gall bladder is the second leading cancer sites in rural male population; however, it is the fifth leading cancer site in urban male population. For males, the gall bladder cancer incidence rates for Varanasi urban population is 46% less than rural male population (RR 0.54, 95% CI 0.38-0.76). The gall bladder cancer incidence rates for Varanasi urban female population is 43% less than rural population (RR 0.57, 95% CI 0.45-0.73).

The difference in the cancer burden and patterns in the rural and urban area may be due to different lifestyles, food habits, education levels, and access to the diagnostic and treatment facilities. **In this period due to COVID-19 pandemic we have limited access to medical records in the urban areas, we may have missed the cases in urban area.** The leading cancer sites by sex and area are presented in figures 32 to 35.

Figure 32: Leading cancer sites in urban area: male (2018-2019)

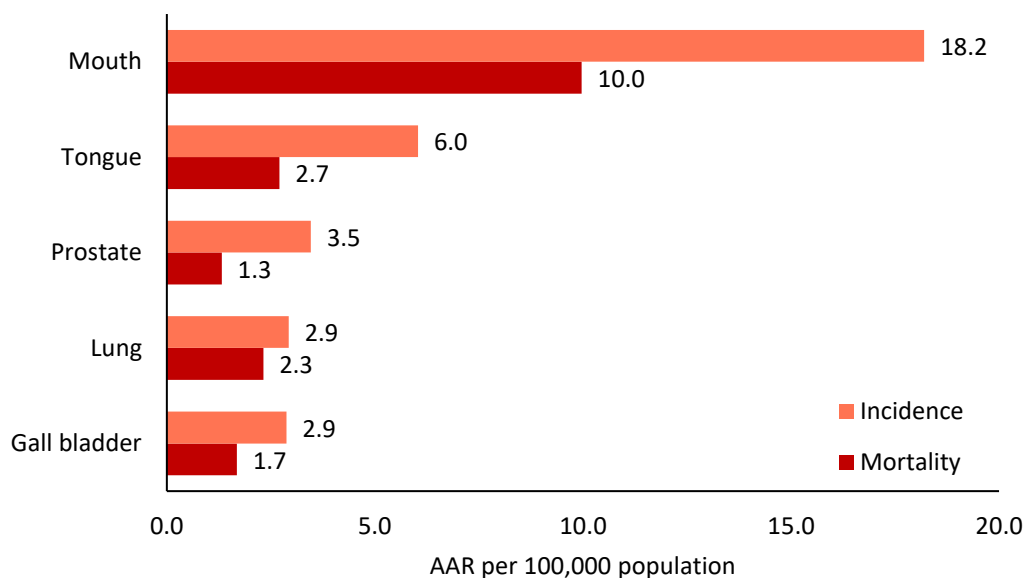
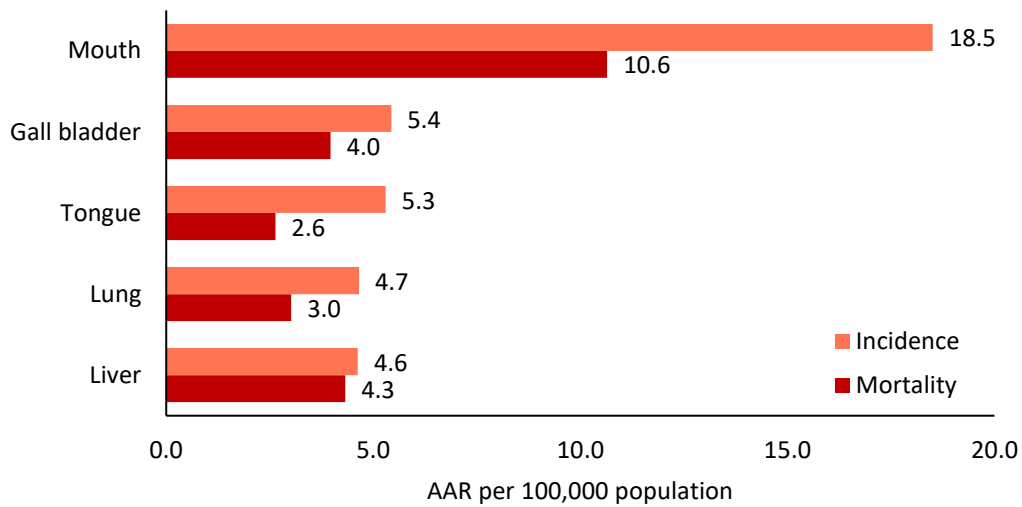
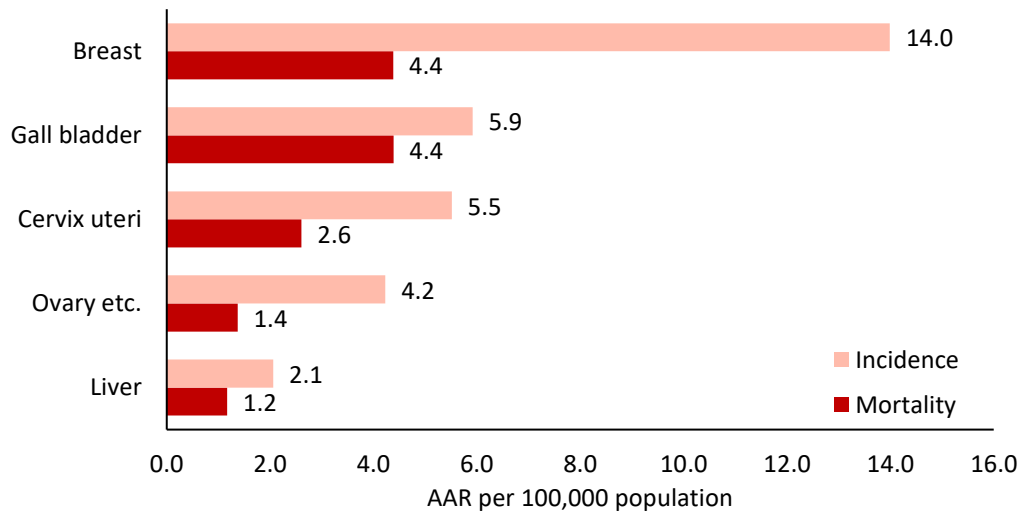


Figure 33: Leading cancer sites in rural area: male (2018-2019)**Figure 34: Leading cancer sites in urban area: female (2018-2019)****Figure 35: Leading cancer sites in rural area: female (2018-2019)**

12. Cancer pattern in paediatric age-group

In the year 2018-2019, out of 4,559 registered cancer cases 95 (2.1%) paediatric cases (0-14 age group) were noted. **The age-adjusted incidence for boys is 59.6 per million and 23.9 per million for girls.**

The leading cancer sites in boys are bone, myeloid leukaemia, leukaemia unspecified, lymphoid leukaemia, brain, NHL, kidney, Hodgkin disease, connective and soft tissue and other skin. While in girls lymphoid leukaemia, bone, NHL, connective and soft tissue, brain, ovary, myeloid leukaemia, leukaemia unspecified, kidney, and rectum are the leading cancer sites. Leading cancer sites are mentioned below in figure 36 and 37.

Figure 36: Leading cancer sites in boys: 2018-2019

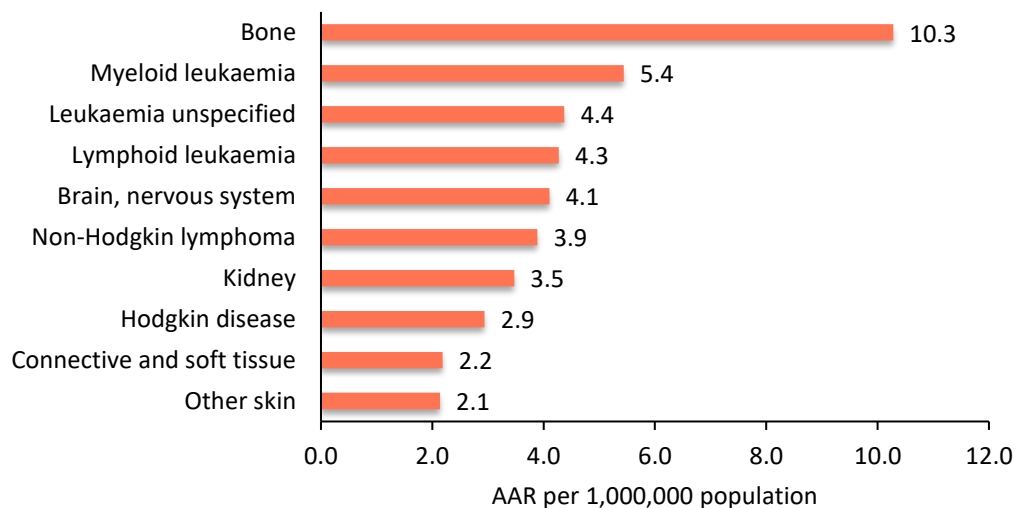
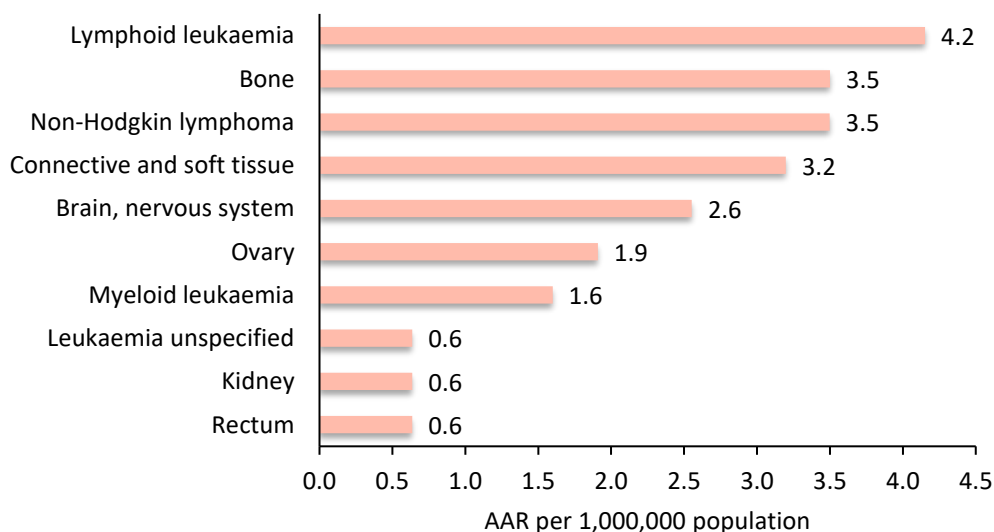


Figure 37: Leading cancer sites in girls: 2018-2019



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 37 and 38.** ⁽¹¹⁾

Proportion of paediatric cancer cases by 12 main diagnostic group as per ICCC-3 standard is presented in figure 38.

Figure 38: Proportion of paediatric cancer cases by age-group: Both sex (Varanasi district)

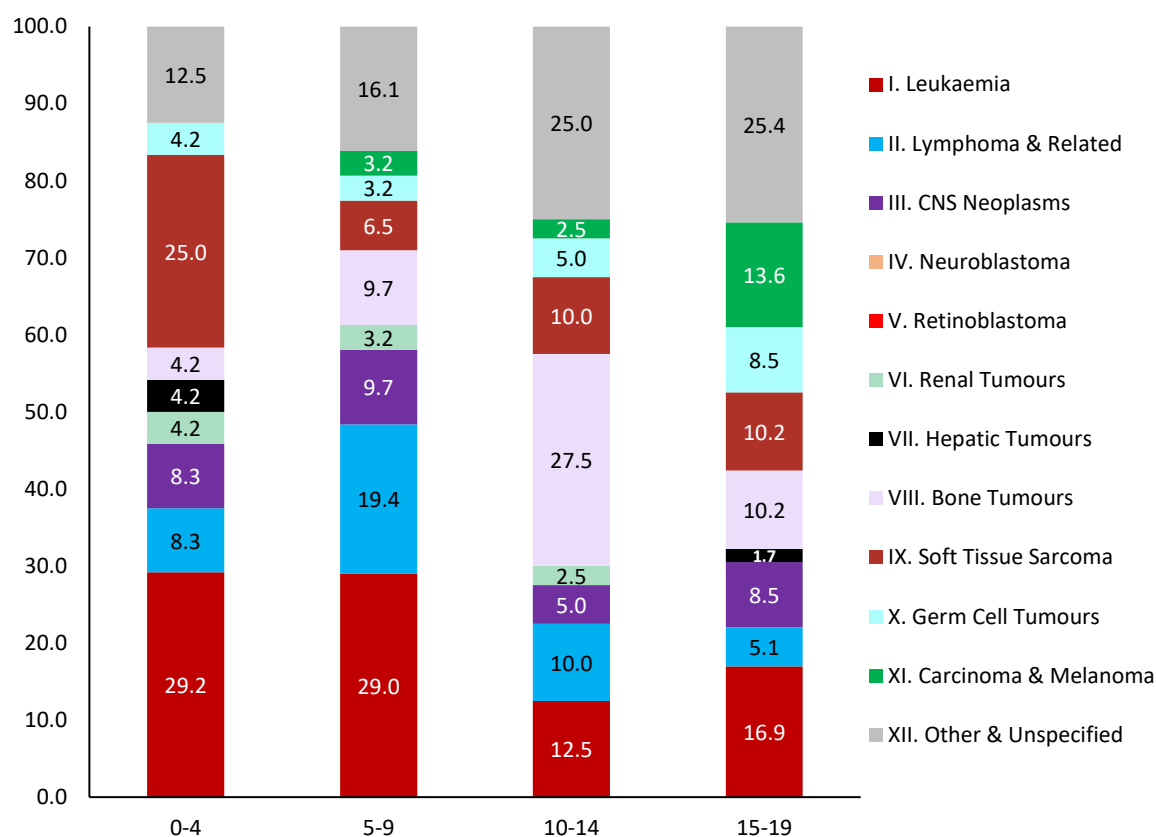


Table 13: Number of cancer case, percentage and age-adjusted incidence rate per million population: Varanasi district (2018-2019)

ICCC Code	Site	Boys			Girls		
		Number	%	AAR*	Number	%	AAR*
1a	Lymphoid leukaemia	4	5.7	4.3	3	12.0	4.2
1b	Acute myeloid leukaemia	5	7.1	4.6	1	4.0	1.6
1c	Chronic myeloproliferative diseases	1	1.4	0.8	-	-	-
1e	Unspecified and other specified leukaemia	6	8.6	4.4	1	4.0	0.6
2a	Hodgkin lymphomas	3	4.3	2.9	-	-	-
2b	Non-Hodgkin lymphomas (except Burkitt lymphoma)	1	1.4	1.3	2	8.0	1.9
2c	Burkitt lymphoma	3	4.3	2.0	-	-	-
2e	Unspecified lymphomas	1	1.4	0.6	2	8.0	1.6
3a	Ependymomas and choroid plexus tumor	1	1.4	0.8	1	4.0	1.0
3c	Intracranial and intraspinal embryonal tumor	2	2.9	1.9	-	-	-
3d	Other gliomas	1	1.4	0.8	1	4.0	1.6
3f	Unspecified intracranial and intraspinal neoplasms	1	1.4	0.6	-	-	-
6a	Nephroblastoma and other nonepithelial renal tumor	2	2.9	2.1	-	-	-
6c	Unspecified malignant renal tumor	-	-	-	1	4.0	0.6
7a	Hepatoblastoma	1	1.4	1.3	-	-	-
8a	Osteosarcomas	1	1.4	0.6	2	8.0	1.3
8c	Ewing tumor and related sarcomas of bone	6	8.6	3.9	2	8.0	1.6
8e	Unspecified malignant bone tumor	3	4.3	2.5	1	4.0	0.6
9a	Rhabdomyosarcomas	1	1.4	1.3	1	4.0	1.6
9b	Fibrosarcomas, peripheral nerve sheath tumor, and other fibrous neoplasms	1	1.4	0.8	1	4.0	0.6
9d	Other specified soft tissue sarcomas	6	8.6	6.0	-	-	-
9e	Unspecified soft tissue sarcomas	1	1.4	0.6	1	4.0	1.6
10b	Malignant extra cranial and extra gonadal germ cell tumor	1	1.4	0.8	-	-	-
10c	Malignant gonadal germ cell tumor	1	1.4	1.3	1	4.0	0.6
10d	Gonadal carcinomas	-	-	-	1	4.0	0.6
11f	Other and unspecified carcinomas	1	1.4	0.8	1	4.0	0.6
12b	Other unspecified malignant tumor	16	22.9	12.5	2	8.0	1.6
Total		70	100.0	59.6	25	100.0	23.9

13. Tobacco-related cancer

The use of tobacco has severe effects on health. Tobacco is one of the major causes of non-communicable diseases. The anatomical sites are included to calculate the tobacco-related cancer burden based on the guidelines of the International Agency for Research on Cancer (IARC), WHO, Lyon, France.⁽¹²⁾ Lip (C00), tongue (C01-C02), mouth (C03-C06), pharynx (C10, C12-C14), oesophagus (C15), larynx (C32), lung (C33-C34) and urinary bladder (C67) are associated with the use to tobacco.

As per the Varanasi registry data, the tobacco-related cancer burden is 50.6% in males (1 out of 2 cancer cases is tobacco-related) while it is 13.1% in females (1 out of 8 cancer cases is tobacco-related). The leading site under tobacco-related cancer are mouth, tongue, lung, esophagus and larynx in males; and in females, mouth, lung, tongue, esophagus and urinary bladder.

In the male out of 1,303; 408 (31.3%) were farmers, 212 (16.3%) semi-skilled and unskilled workers, 151 (11.6%) clerical shop-owners, and 125 (9.6%) are government employees. In the female out of 259; 214 (82.6%) are housewives. If we consider the educational level of this population, 15.0% males were illiterate and while 35.5% females were illiterate. More than 80% tobacco related cancer patients are Hindus.

Table 14: Tobacco-related cancer in male: 2018-2019

ICD10	Site	Number	%	CR	AAR	TR
C00	Lip	59	2.3	1.4	1.7	3.8
C01-C02	Tongue	205	8.0	4.9	5.6	13.4
C03-C06	Mouth	660	25.6	15.7	18.4	46.1
C10	Other oropharynx	19	0.7	0.5	0.6	1.4
C12-C13	Hypopharynx	33	1.3	0.8	1.0	1.5
C14	Pharynx unspecified	3	0.1	0.1	0.1	0.1
C15	Oesophagus	73	2.8	1.7	2.2	4.3
C32	Larynx	69	2.7	1.6	2.0	3.2
C33-C34	Trachea, bronchus and lung	131	5.1	3.1	3.8	5.7
C67	Urinary bladder	51	2.0	1.2	1.5	3.0
C00-C06, C10, C12-C15, C32-C34 & C67	Tobacco-related cancer	1303	50.6	30.9	36.8	82.4

Table 15: Tobacco-related cancer in female: 2018-2019

ICD10	Site	Number	%	CR	AAR	TR
C00	Lip	1	0.1	0.0	0.0	0.1
C01-C02	Tongue	48	2.4	1.2	1.5	2.9
C03-C06	Mouth	83	4.2	2.2	2.5	5.4
C10	Other oropharynx	2	0.1	0.1	0.1	0.0
C12-C13	Hypopharynx	1	0.1	0.0	0.0	0.1
C14	Pharynx unspecified	2	0.1	0.1	0.0	0.1
C15	Oesophagus	30	1.5	0.8	0.9	1.6
C32	Larynx	6	0.3	0.2	0.2	0.4
C33-C34	Trachea, bronchus and lung	72	3.6	1.9	2.2	4.5
C67	Urinary bladder	14	0.7	0.4	0.4	0.9
C00-C06, C10, C12-C15, C32-C34 & C67	Tobacco-related cancer	259	13.1	6.7	7.8	15.9

Table 16: Tobacco-related cancer cases by sex and occupation

Occupation	Male		Female		Total	
	Number	%	Number	%	Number	%
Professional	20	1.5	0	0.0	20	1.3
Semi-professional	41	3.1	1	0.4	42	2.7
Clerical, Shop-owner	151	11.6	3	1.2	154	9.9
Farmer	408	31.3	19	7.3	427	27.3
Skilled worker	80	6.1	0	0.0	80	5.1
Semi-skilled worker	108	8.3	1	0.4	109	7.0
Unskilled worker	104	8.0	1	0.4	105	6.7
Unemployed	11	0.8	0	0.0	11	0.7
Student	7	0.5	1	0.4	8	0.5
House-wife	-	-	214	82.6	214	13.7
Govt. Employee	125	9.6	4	1.5	129	8.3
Private Employee	29	2.2	0	0.0	29	1.9
Other	213	16.3	13	5.0	226	14.5
Unknown/No information	6	0.5	2	0.8	8	0.5
Total	1303	100.0	259	100.0	1562	100.0

Table 17: Tobacco-related cancer cases by sex and education

Education	Male		Female		Total	
	Number	%	Number	%	Number	%
Illiterate	195	15.0	92	35.5	287	18.4
Literate	246	18.9	48	18.5	294	18.8
Primary (1 st to 7 th std)	351	26.9	59	22.8	410	26.2
Secondary (8 th to 10 th std)	284	21.8	35	13.5	319	20.4
Technical after 10 th	26	2.0	2	0.8	28	1.8
College	161	12.4	19	7.3	180	11.5
Post Graduate	25	1.9	3	1.2	28	1.8
Other	2	0.2	0	0.0	2	0.1
Unknown/No information	13	1.0	1	0.4	14	0.9
Total	1303	100.0	259	100.0	1562	100.0

Table 18: Tobacco-related cancer cases by sex and religion

Religion	Male		Female		Total	
	Number	%	Number	%	Number	%
Hindu	1078	82.7	234	90.3	1312	84.0
Muslim	223	17.1	24	9.3	247	15.8
Christian	1	0.1	0	0.0	1	0.1
Sikh	1	0.1	1	0.4	2	0.1
Total	1303	100.0	259	100.0	1562	100.0

14. Cancer burden as per anatomical system

For males, the reported majority of cancer cases involved the sites from head and neck region (43.1%) followed by the digestive tract organs (22.0%) with highest AAR 31.1 and 16.2 per 100,000 population respectively, and further, Respiratory and Intra thoracic sites (8.3%), Lymphoid and Haematopoietic tissue (7.5%) and Male Genital Organ (5.3%) followed. In head and neck region, the leading sites were of mouth cancers (C03-C06) with AAR 18.4 per 100,000 population, in digestive tract organs, gall bladder was the leading cancer site (C23-24) with 4.2 AAR per 100,000 population and while among male genitalia cancer cases, the leading site was prostate (C61) with AAR 3.3 per 100,000 population.

For females, the reported majority of cancer cases involved the sites from Digestive Organ region (25.6%) followed by the female genital organs (22.4%) and breast (22.7%) with highest AAR 15.2, 13.2, and 13.1 per 100,000 population respectively and further, head and neck regions (9.4%), Lymphoid and Haematopoietic tissue (5.4%) and Respiratory and Intra thoracic Organ (4.3%) followed. Among the digestive organ cancer, the leading site was gall bladder (C23-24) with AAR 8.2 per 100,000 population and for female genitalia organs, the leading site is cervix uteri (C53) with AAR 7.2 per 100,000 population. The details are presented in figure 39, table 19 and 20.

Figure 39: Cancer rates by different anatomical sites in Varanasi district: 2018-2019

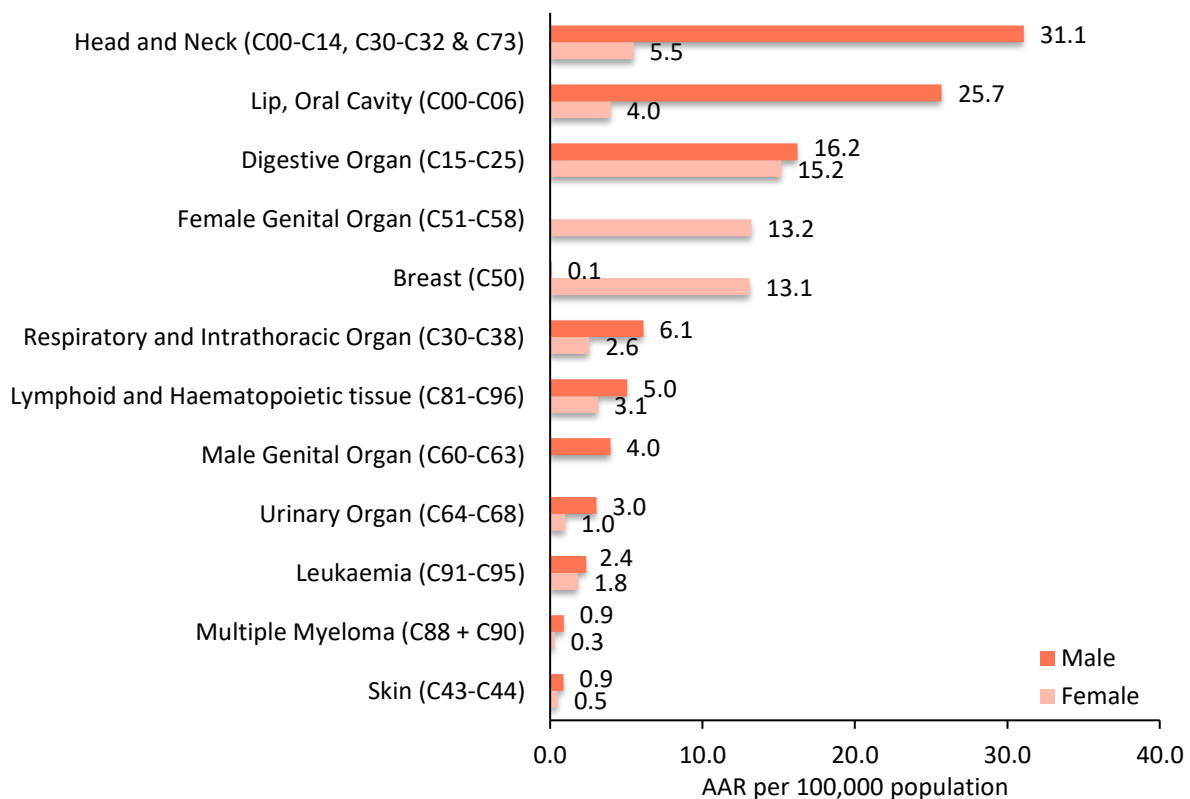


Table 19: Cancer burden as per the various anatomical system in male: 2018-2019

ICD10	Site	Number	%	CR	AAR	TR
C00-C14, C30-C32 & C73	Head and Neck	1111	43.1	26.4	31.1	72.5
C00-C06	Lip, Oral Cavity	924	35.9	21.9	25.7	63.2
C15-C25	Digestive Organ	567	22.0	13.5	16.2	31.0
C30-C38	Respiratory and Intra thoracic Organ	213	8.3	5.1	6.1	9.2
C81-C96	Lymphoid and Haematopoietic tissue	194	7.5	4.6	5.0	8.2
C60-C63	Male Genital Organ	136	5.3	3.2	4.0	5.0
C64-C68	Urinary Organ	104	4.0	2.5	3.0	5.6
C91-C95	Leukaemia	96	3.7	2.3	2.4	3.3
C88 + C90	Multiple Myeloma	30	1.2	0.7	0.9	1.8
C43-C44	Skin	30	1.2	0.7	0.9	1.6
C50	Breast	4	0.2	0.1	0.1	0.2

Table 20: Cancer burden as per the various anatomical system in female: 2018-2019

ICD10	Site	Number	%	CR	AAR	TR
C15-C25	Digestive Organ	508	25.6	13.2	15.2	33.3
C51-C58	Female Genital Organ	443	22.4	11.5	13.2	30.8
C50	Breast	450	22.7	11.7	13.1	32.0
C00-C14, C30-C32 & C73	Head and Neck	187	9.4	4.9	5.5	11.7
C00-C06	Lip, Oral Cavity	132	6.7	3.4	4.0	8.4
C81-C96	Lymphoid and Haematopoietic tissue	108	5.4	2.8	3.1	5.8
C30-C38	Respiratory and Intra thoracic Organ	86	4.3	2.2	2.6	5.4
C91-C95	Leukaemia	62	3.1	1.6	1.8	3.4
C64-C68	Urinary Organ	34	1.7	0.9	1.0	1.9
C43-C44	Skin	17	0.9	0.4	0.5	0.9
C88 + C90	Multiple Myeloma	9	0.5	0.2	0.3	0.5

15. Socio-demographic information

The Varanasi district cancer registry staff interacted with cancer patients or their relatives and gathered socio-demographic information. Based on the information collected, in the Varanasi district, cancer cases were highest among the Hindu community (87.5%). Moreover, cancer cases were more in the illiterate population among females [599 (30.2%) out of 1,982 cancer cases] than males [359/2577 (13.9%)]. Furthermore, in terms of occupation, cancer cases were more commonly found among farmers (32.4%) in males and housewives (81.8%) in females. The number of cancer cases was more among the population with an income range of Rs. 7,500/- to Rs. 11,500/- per month.

Table 21: Cancer cases by education and sex

Education	Male		Female		Total	
	Number	%	Number	%	Number	%
Illiterate	359	13.9	599	30.2	958	21.0
Literate	462	17.9	396	20.0	858	18.8
Primary (1 to 7std)	659	25.6	495	25.0	1154	25.3
Secondary (8 to 10 std)	545	21.1	272	13.7	817	17.9
Technical after 10 th	66	2.6	17	0.9	83	1.8
College	372	14.4	150	7.6	522	11.4
Post Graduate	67	2.6	30	1.5	97	2.1
Other	3	0.1	0	0.0	3	0.1
Not applicable to children	23	0.9	7	0.4	30	0.7
Unknown / No Information	21	0.8	16	0.8	37	0.8
Total	2577	100.0	1982	100.0	4559	100.0

Table 22: Cancer cases by religion and sex

Religion	Male		Female		Total	
	Number	%	Number	%	Number	%
Hindu	2201	85.4	1790	90.3	3991	87.5
Muslim	372	14.4	183	9.2	555	12.2
Christian	2	0.1	6	0.3	8	0.2
Sikh	2	0.1	2	0.1	4	0.1
Other	0	0.0	1	0.1	1	0.0
Total	2577	100.0	1982	100.0	4559	100.0

Table 23: Cancer cases by income and sex

Income	Male		Female		Total	
	Number	%	Number	%	Number	%
=> 30375	173	6.7	69	3.5	242	5.3
15188-30374	269	10.4	126	6.4	395	8.7
11362-15187	337	13.1	229	11.6	566	12.4
7594-11361	683	26.5	472	23.8	1155	25.3
4556-7593	287	11.1	240	12.1	527	11.6
1521-4555	424	16.5	435	21.9	859	18.8
<= 1520	208	8.1	264	13.3	472	10.4
Unknown/No information	196	7.6	147	7.4	343	7.5
Total	2577	100.0	1982	100.0	4559	100.0

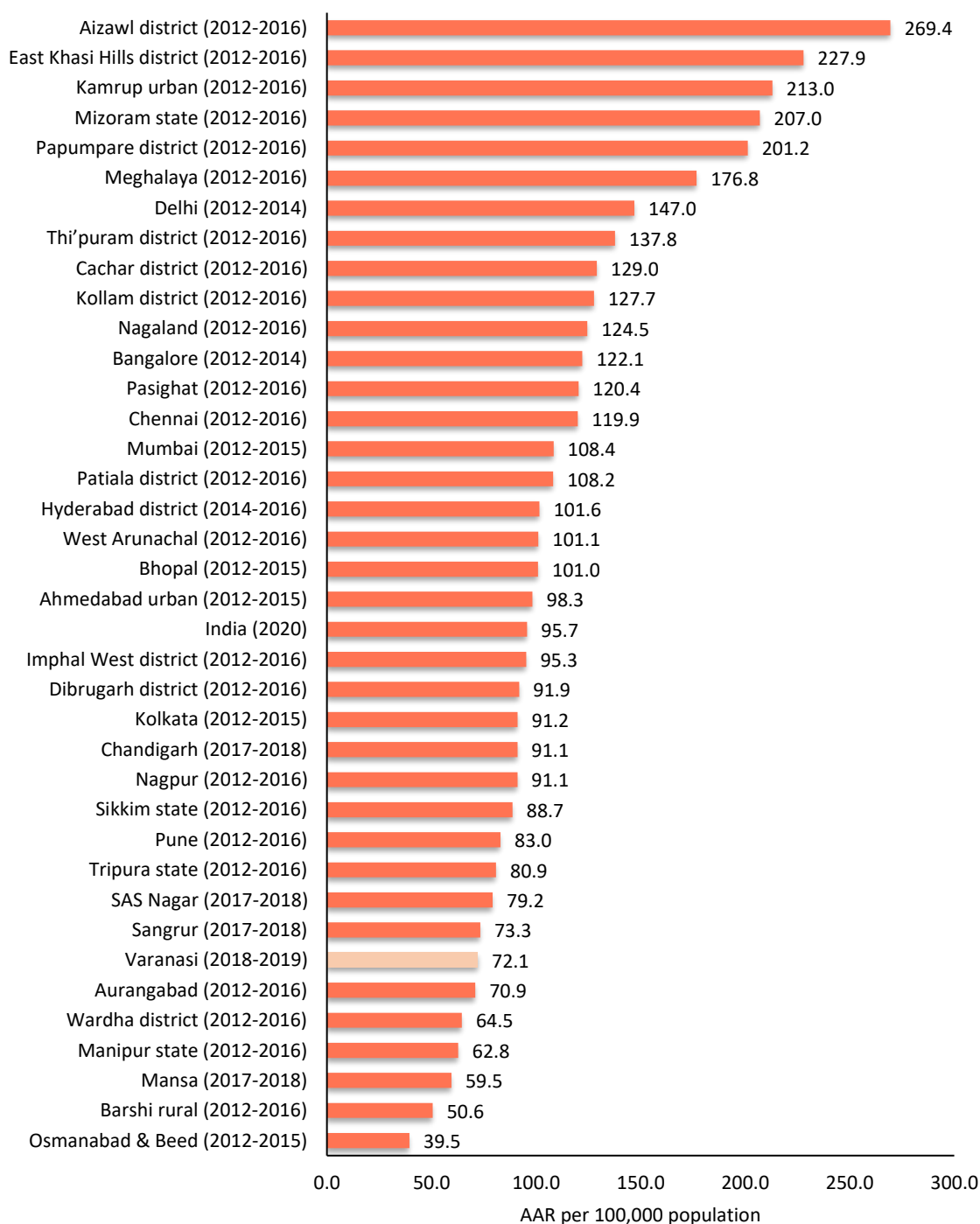
Table 24: Cancer cases by occupation and sex

Occupation	Male		Female		Total	
	Number	%	Number	%	Number	%
Professional	39	1.5	5	0.3	44	1.0
Semi-professional	86	3.3	3	0.2	89	2.0
Clerical, Shop-owner	256	9.9	23	1.2	279	6.1
Farmer	834	32.4	130	6.6	964	21.1
Skilled worker	115	4.5	7	0.4	122	2.7
Semi-skilled worker	173	6.7	6	0.3	179	3.9
Unskilled worker	203	7.9	5	0.3	208	4.6
Unemployed	21	0.8	2	0.1	23	0.5
Student	95	3.7	49	2.5	144	3.2
House-wife	0	0.0	1621	81.8	1621	35.6
Govt. Employee	268	10.4	43	2.2	311	6.8
Private Employee	54	2.1	1	0.1	55	1.2
Other	385	14.9	76	3.8	461	10.1
Not applicable for children	37	1.4	8	0.4	45	1.0
Unknown/No information	11	0.4	3	0.2	14	0.3
Total	2577	100.0	1982	100.0	4559	100.0

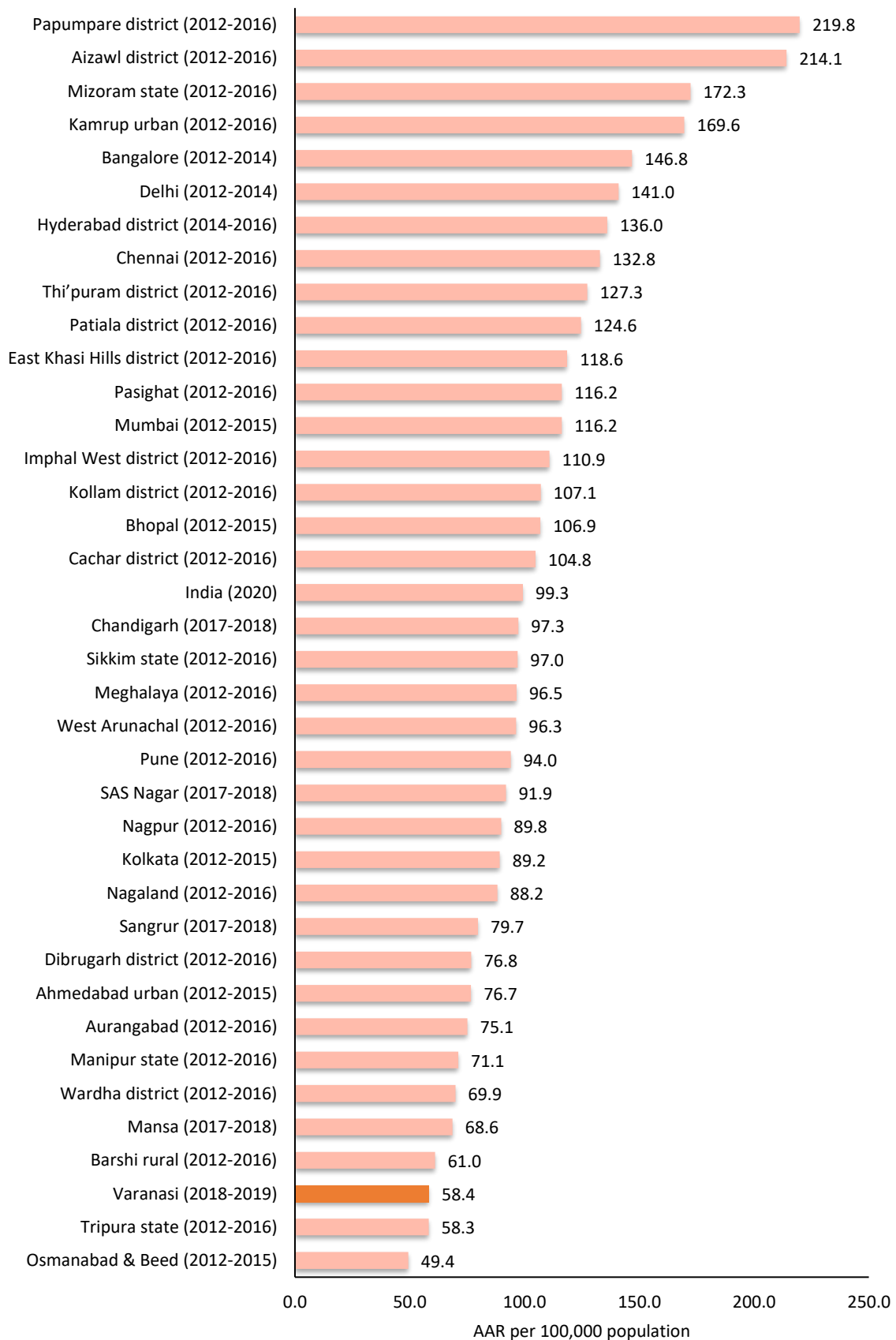
16. Comparison of cancer incidence rate with other Indian registries

Age-adjusted incidence rate for all cancer sites for both sexes for the year 2018-2019 was compared with other Indian PBCRs in figures 40 and 41. The cancer incidence rate of Varanasi district is lower than urban areas and it is comparable with other rural cancer registries in the country.

Figure 40: Age-adjusted incidence rate of all cancer sites in male



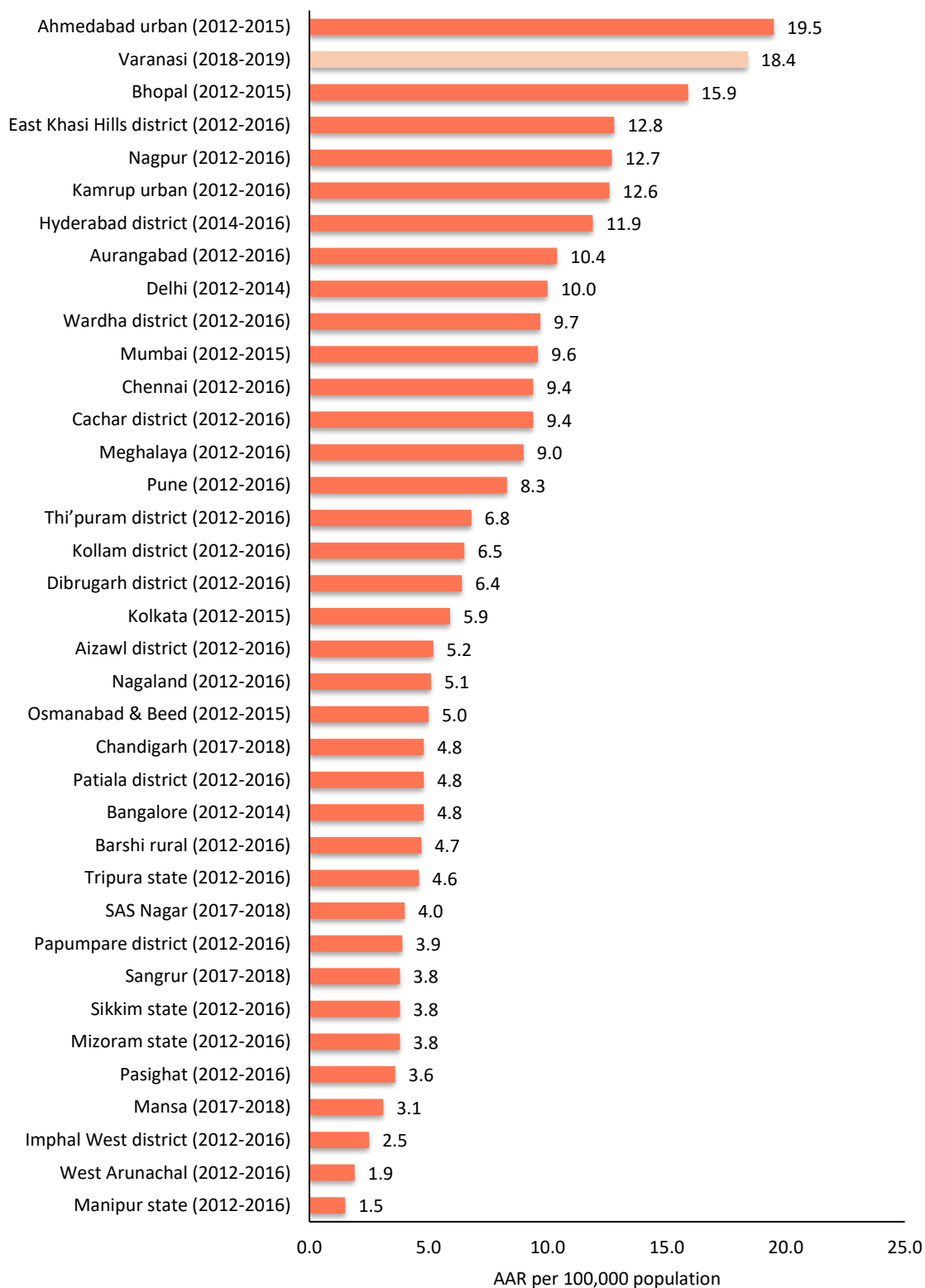
(References: 1-5, 13)

Figure 41: Age-adjusted incidence rate of all cancer sites in females

(References: 1-5, 13)

Among males, out of every 4 cancer cases, 1 case is of mouth cancer registered at Varanasi district. Mouth cancer rate is higher in Varanasi district. Comparison of mouth cancer rate is shown in figure 42.

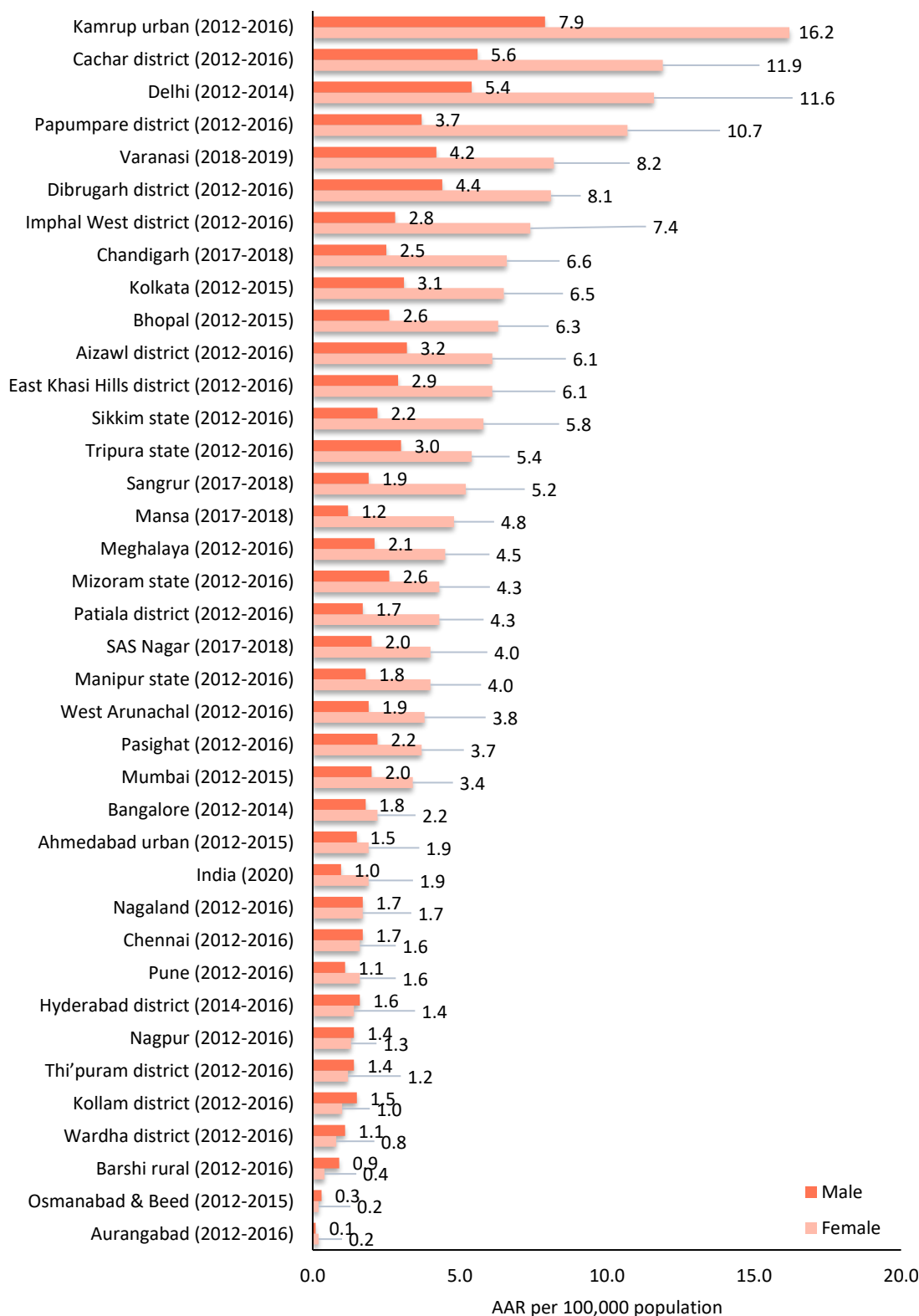
Figure 42: Age-adjusted incidence rate of mouth cancer in males (C03-C06)



(References: 1-5, 13)

Gall bladder cancer is the second leading cancer site among females in Varanasi district. Compared to other Indian registries the rates are high; however, it is low as compared to Delhi cancer registry. The comparison of gall bladder cancer rate is shown in figure 43.

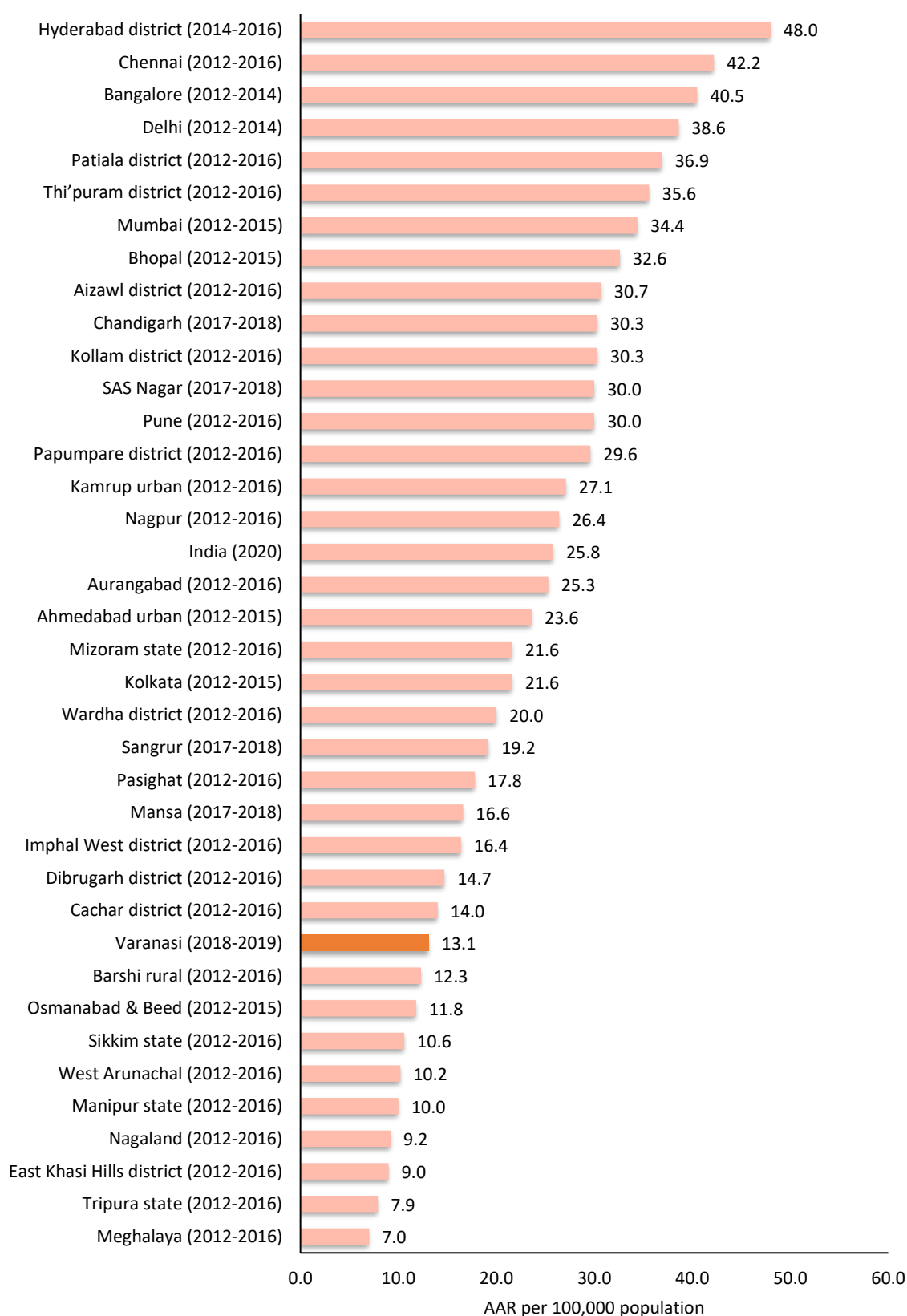
Figure 43: Age-adjusted incidence rate of gall bladder cancer



(References: 1-5, 13)

The breast cancer incidence rate is low in Varanasi district as compared to other registries in India. The comparison of breast cancer rate is shown in figure 44.

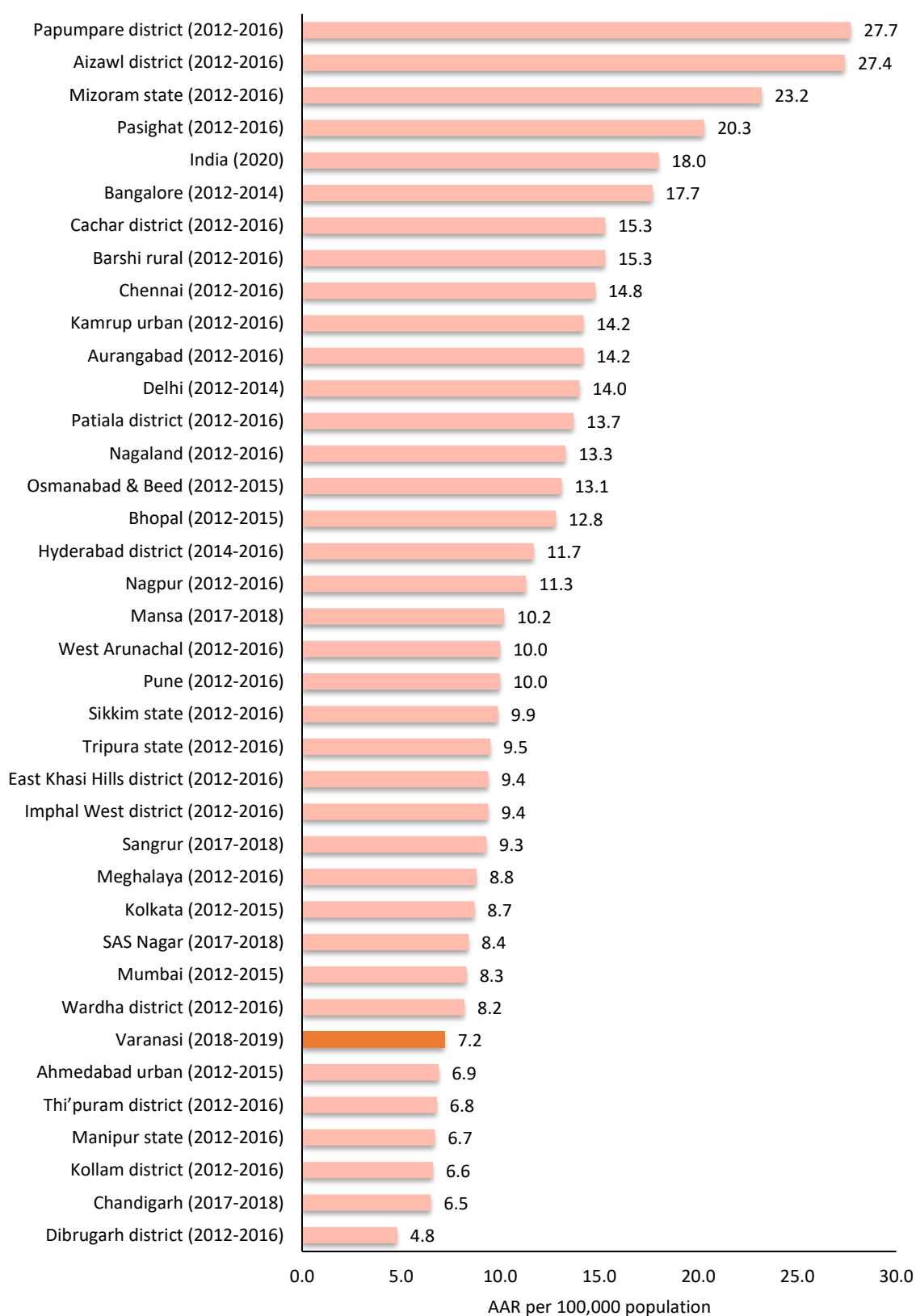
Figure 44: Age-adjusted incidence rate of breast cancer



(References: 1-5, 13)

The cervical cancer incidence rate is low in Varanasi district as compared to other registries in India. The comparison of cervical cancer rate is shown in figure 45.

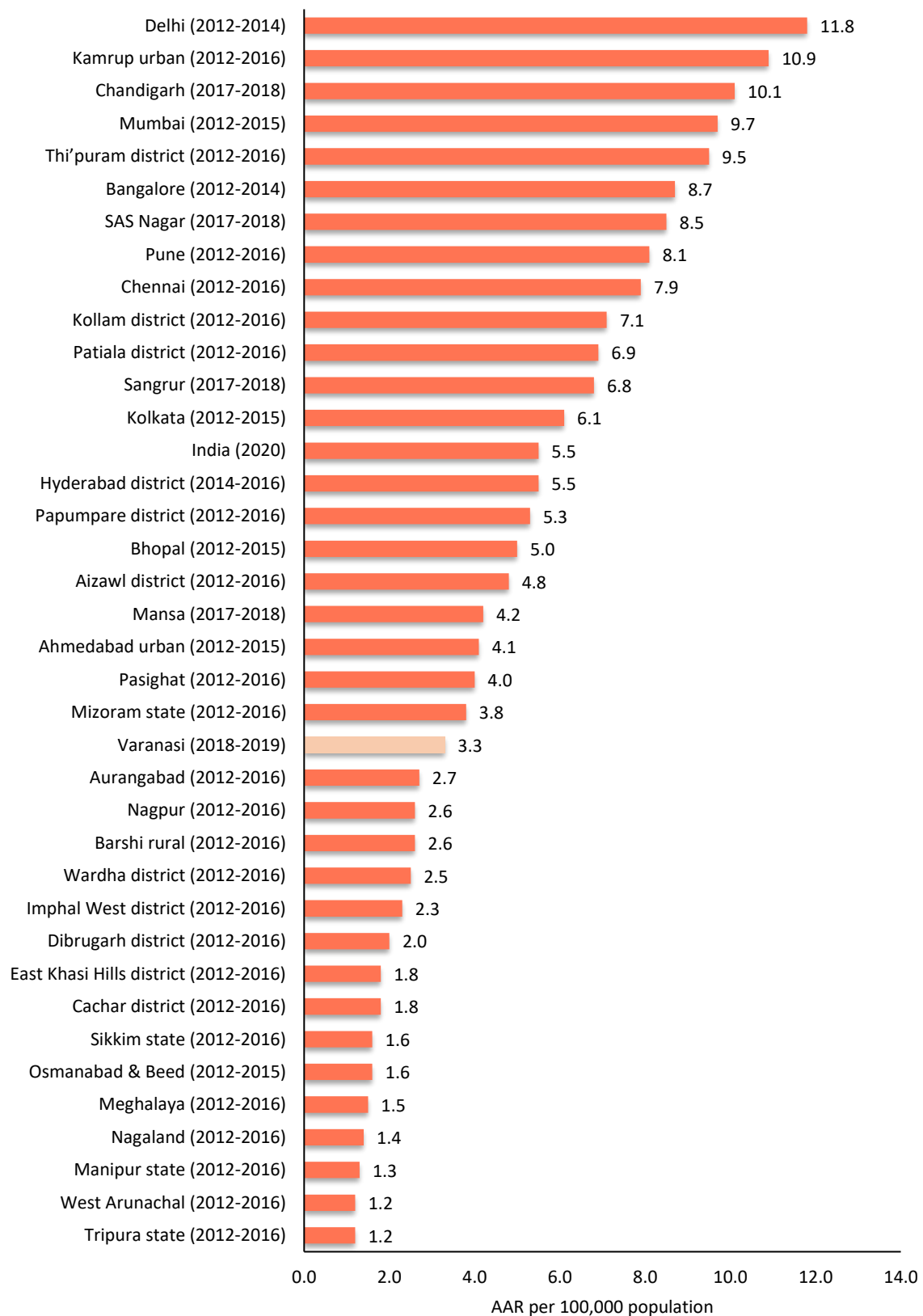
Figure 45: Age-adjusted incidence rate of cervical cancer



(References: 1-5, 13)

The prostate cancer incidence rate is low in Varanasi district as compared to other registries in India. The comparison of prostate cancer rate is shown in figure 46.

Figure 46: Age-adjusted incidence rate of prostate cancer



(References: 1-5, 13)

17. Technical support to population-based cancer registry Muzaffarpur, Bihar

The Tata Memorial Centre, Mumbai has established the Homi Bhabha Cancer Hospital and Research Centre (HBCH&RC) at Muzaffarpur, Bihar State on 4th February 2021. The HBCH&RC is running as a HUB and Spoke Model. The hospital infrastructure development is going on and it will be complete in the coming years.

Population-based cancer registry Muzaffarpur is functioning from 1st October 2018. The Varanasi PBCR with the support of Centre for Cancer Epidemiology has been providing technical help to the Muzaffarpur registry. This is the first population-based cancer registry in Bihar State. The registry covers the population from five blocks Kanti, Motipur, Muraul, Mushahari, Sakara, and Muzaffarpur Municipal Corporation; covering 2.1 million population.

The staff selected were provided training at the Varanasi PBCR as well as Centre for Cancer Epidemiology (CCE), Tata Memorial Centre (TMC), Mumbai. Registry is collecting the cancer cases data from the year 2018 onwards. Staff regularly visits villages, cancer treating hospitals, and diagnostic laboratories for Muzaffarpur, Patna and other nearby cities to collect the cancer cases data. A meeting with ANM, ASHA and community leaders was conducted to raise the awareness regarding cancer and involving them in cancer registration process. The registry has regularly sought guidance from CCE-TMC Mumbai for data checking and quality control.



Location of Muzaffarpur cancer registry

Provisional results for the year 2018, we have collected 685 new cancer cases and 389 cancer death data. Based on the provisional data, it was observed that mouth cancer is predominant cancer followed by leukaemia and tongue in males whereas in females, breast, cervix uteri and gall bladder cancer are the leading cancers. The registry data will be utilized in establishing the infrastructure as well as planning the cancer control activities in this region.

Figure 47: Leading cancer sites in male (2018)

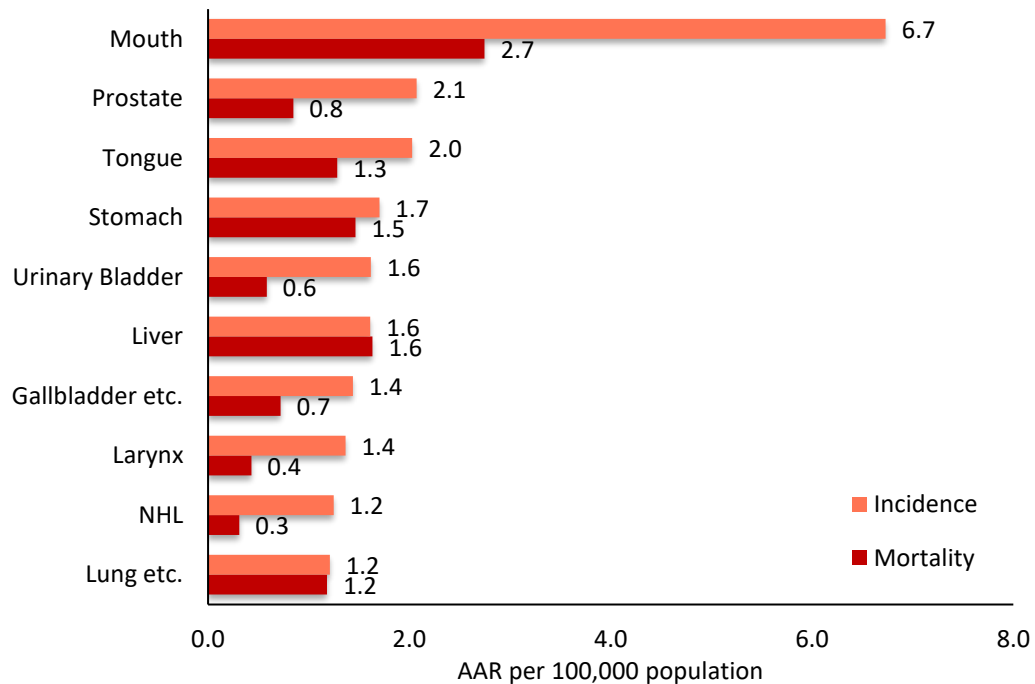
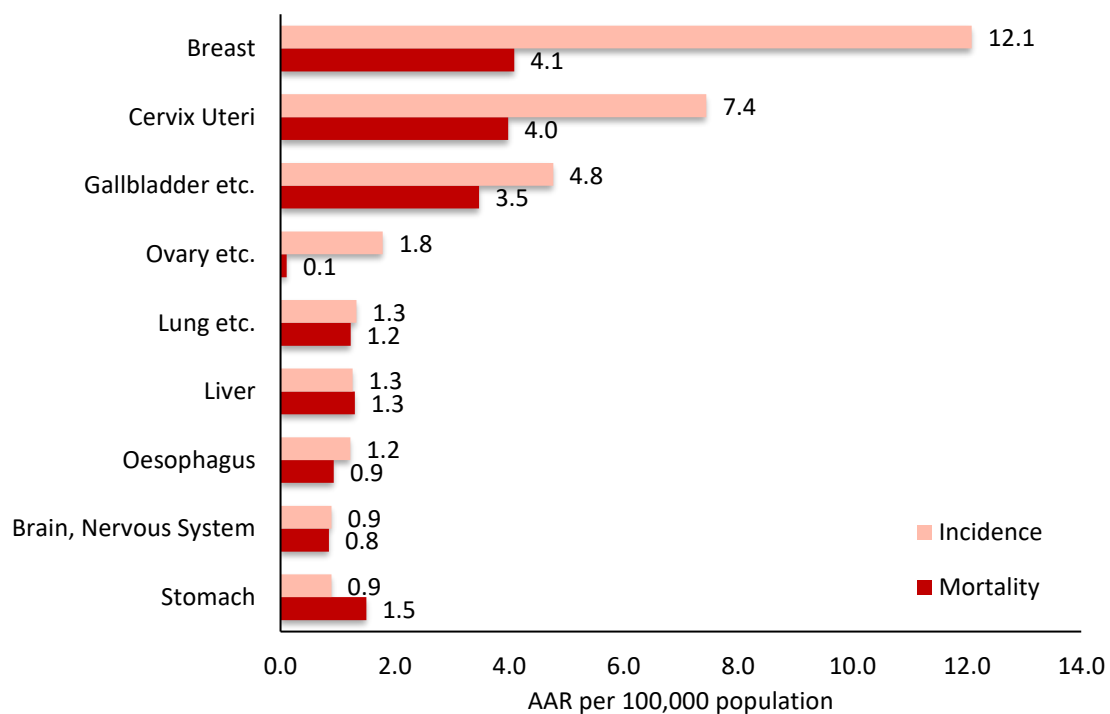


Figure 48: Leading cancer sites in female (2018)





Cancer cases data collection through village visit



Meeting with ANM, ASHA worker and community leader



Homi Bhabha Cancer Hospital and Research Centre, Muzaffarpur, Bihar

18. The COVID-19 pandemic effect

The emergence of the COVID-19 pandemic in 2020 led to major disruption of health-related services globally, cancer registry operations being one of them. A nationwide lockdown was imposed from 24th March - 31st May, 2020. India witnessed another devastating second wave which started in mid-march of 2021 and peaked on 1st May with over 400,000 daily cases. Uttar Pradesh entered complete lockdown from 30th April 2021 and the restrictions were gradually lifted later with decreasing cases.

Cancer is not a notifiable condition in India, hence cancer registration approach in Varanasi PBCR was through active case-finding, where the field investigators visit the community, diagnostic facilities and cancer treatment centres to collect information. The cancer registry team faced several challenges to carry out cancer registry operations. They adopted local measures to ensure that the cancer registration process remains uninterrupted. We have several hurdles in data collection.

Challenges

Difficult working conditions: Due to the unprecedented health crisis, hospital resources were overwhelmed. Staff faced inadequate working conditions due to social-distancing protocols and the lack of personal protective equipment such as face masks and sanitizer. Field investigators that were dependent on public transport for visiting communities and facilities faced transportation issues due to the complete lockdown and travel restrictions. The registry operations in the office were hampered as the guidelines allowed to work with only fifty percent of staff to ensure the social distancing protocols. Staff faced difficulty in getting COVID-19 vaccination during the second wave.

Hurdles in active case finding: Registry faced disruption in the data collection concerning the access of medical records and laboratory reports of the cancer patients from the treatment centres and diagnostic facilities. Registry also faced resistance in communicating with the identified sources for cancer information such as treating hospitals, diagnostic facilities, and grass-level workers like ASHA and ANM because the entire healthcare system efforts were concentrated on pandemic control and management. Many hospitals were converted to COVID isolation centres. Access to death records from the Death Registration office was completely restricted. The fear of COVID-19 infection was a major deterrent in cancer operations. Many times, the community refused interaction fearing COVID testing. Most of the grass-level workers, key informants in the community and the cancer patients and their family members refused one-to-one and group interactions due to the existing fear.

They also got infected during the first and second waves of the pandemic and hence were not available for the interviews. Several cancer patients reported dissatisfaction as they were unable to access cancer treatment during COVID restrictions because of which registry staff faced resistance in collecting information from them.

Manpower crisis: Several registry staff and their family members got infected and they had to apply for leaves for recovery and quarantine. None of the staff resigned and salaries were timely disbursed.

Local measures: During the period of the lockdown and restrictions, regular telephonic interaction with the diagnosed cancer patients and their family members helped in cancer registration. The staff visiting the office was reduced as per the social-distancing protocols and this period was utilized to improve the quality of the filled PBCR proformas for ICD-O coding, completing missing and follow-up information through telephonic interaction with the cancer patients and their relatives. Access to electronic medical records remotely helped in completing the cancer registry proforma of the registered cancer cases. This period was also utilized to prepare the first PBCR Varanasi report which was released in October 2020. Since the registry team is part of the HBCH and MPMMCC, hence many cancer patients who were under the registry follow-up used to inquire about hospital updates for the treatment-related queries. This helped the registry for follow-up of cancer patients.

Despite various hurdles, the cancer registry team ensured that the cancer registry operations remain uninterrupted by adopting flexible remedial measures. Support from the hospital administration and the technical team from the Centre for Cancer Epidemiology has been critical for the continuation of cancer registration.

19. Description of statistical terms used

Incidence: Cancer incidence denotes new cancer cases diagnosed in a defined population in a specified period. For this report, all cancer cases diagnosed from 1st January 2018 to 31st December 2019 in the Varanasi district have been included.

Mortality: Cancer mortality is defined as the number of cancer deaths occurring in a defined population, in a defined geographic area, during a particular year(s) per 100,000 population. All cancer deaths from 1st January 2018 to 31st December 2019 in the Varanasi district have been included.

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

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

$$\text{CIR} = \frac{\text{Number of new cancer cases observed in the period 2018-2019} * 100,000}{\text{Estimated population of the same year}}$$

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.

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 sex/site/geographic area/time and multiplying by 100,000.

Age-Adjusted or Age-Standardized Rate (AAR): Age adjustment 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 (TR): This is similar to the age-adjusted rate except that it is calculated to the truncated age group 35-64 years of age.

Paediatric cancer incidence rate: Age-specific rates are shown for 0-4, 5-9, 10-14, and 15-19 age groups. Age-adjusted incidence rates were calculated by the direct method, using the age-specific rates for the age groups 0-4, 5-9, 10-14, and 15-19 and the weights of the World Standard population for these age groups according to Segi, namely 12, 10, 9, and 9. The cumulative incidence rates were calculated as the sum of the age-specific incidence rates for the 5-year age groups, each multiplied by 5, the number of years contained in each age group.

20. Standard registry tables

Table 25: Number of incidence cancers by five-year age group and site (ICD 10): 2018-2019
Males Varanasi district

% = Relative proportion of cancers of all sites

ICD 10	Sites	0_4	5_9	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	-	-	-	-	-	2	3	4	5	9	6	14	3	6	6	1	59	2.3
C01-C02	Tongue	-	-	-	-	1	6	15	19	26	30	26	22	25	11	15	9	205	8.0
C03-C06	Mouth	-	-	-	1	5	12	27	60	98	94	96	85	76	53	26	27	660	25.6
C07-C08	Salivary glands	-	1	-	-	1	-	1	1	1	1	1	9	2	3	3	2	26	1.0
C09	Tonsil	-	-	-	-	-	-	1	-	-	-	3	5	1	1	1	-	12	0.5
C10	Other oropharynx	-	-	-	-	-	-	-	-	1	-	3	6	4	2	2	1	19	0.7
C11	Nasopharynx	-	-	-	-	1	-	-	-	-	-	1	-	-	1	1	-	4	0.2
C12-C13	Hypopharynx	-	-	-	-	-	-	-	-	-	1	2	5	7	5	6	7	33	1.3
C14	Pharynx unspecified	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	3	0.1
C15	Oesophagus	-	-	-	-	-	-	1	-	3	8	7	7	20	14	7	6	73	2.8
C16	Stomach	-	-	-	-	1	1	1	-	1	5	12	13	9	18	12	14	87	3.4
C17	Small intestine	-	-	-	-	-	-	-	1	-	3	-	-	2	1	-	1	8	0.3
C18	Colon	-	-	-	3	2	2	1	5	-	5	3	3	4	4	3	1	36	1.4
C19-C20	Rectum	-	-	-	3	1	6	5	3	3	4	4	2	1	4	2	1	39	1.5
C21	Anus	-	-	-	1	-	-	1	1	-	2	2	3	1	-	-	-	11	0.4
C22	Liver	1	-	-	-	1	3	1	6	12	11	11	17	19	22	14	13	131	5.1
C23-C24	Gallbladder etc.	-	-	-	-	1	1	1	3	14	13	17	28	18	18	18	11	143	5.5
C25	Pancreas	-	-	-	-	1	1	1	2	4	3	4	7	5	4	3	4	39	1.5
C30-C31	Nose, sinuses etc.	1	-	-	2	-	1	-	1	1	-	1	-	-	-	-	2	9	0.3
C32	Larynx	-	-	-	-	-	-	1	2	2	3	7	7	13	15	5	14	69	2.7
C33-C34	Trachea, bronchus and lung	-	-	-	1	2	-	3	3	2	10	8	14	23	24	22	19	131	5.1
C37-C38	Other thoracic organs	-	-	-	1	2	-	-	-	-	-	-	-	-	1	-	-	4	0.2
C40-C41	Bone	3	2	8	5	6	3	2	2	3	4	3	-	5	1	2	-	49	1.9
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	4	0.2
C44	Other skin	1	1	-	-	1	1	1	1	-	1	4	7	3	2	1	2	26	1.0
C45	Mesothelioma	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	0.04
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	-	2	1	2	1	-	-	2	3	5	-	1	2	1	3	4	27	1.0
C50	Breast	-	-	-	-	-	-	-	1	-	-	-	-	1	1	1	-	4	0.2
C60	Penis	-	-	-	-	-	-	-	-	-	-	1	5	2	1	-	1	10	0.4
C61	Prostate	-	-	-	-	-	-	-	-	2	2	5	14	15	19	29	27	113	4.4
C62	Testis	1	-	-	-	1	3	2	2	-	-	2	2	-	-	-	-	13	0.5
C63	Other male genital organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	2	1	-	-	2	1	2	-	4	7	5	5	5	7	4	5	50	1.9
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	-	-	-	-	1	1	2	6	7	10	6	8	6	4	51	2.0
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	0.1
C69	Eye	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	2	0.1
C70-C72	Brain, nervous system	1	2	2	3	4	1	4	1	4	5	-	3	5	3	1	2	41	1.6
C73	Thyroid	-	-	-	-	2	1	-	1	1	1	-	1	1	1	3	-	12	0.5
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	2	0.1
C81	Hodgkin disease	1	2	-	-	3	-	2	1	4	1	-	1	-	-	-	-	15	0.6
C82-C85,C96	Non-Hodgkin lymphoma	1	1	3	1	6	-	1	-	10	3	4	7	3	6	7	-	53	2.1
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	-	-	-	1	1	3	3	4	7	5	5	1	30	1.2
C91	Lymphoid leukaemia	2	2	-	1	3	1	1	1	1	1	-	4	-	3	1	1	22	0.9
C92-C94	Myeloid leukaemia	2	2	2	3	1	7	5	5	8	3	4	1	3	1	-	1	48	1.9
C95	Leukaemia unspecified	-	4	2	4	5	1	1	4	-	1	-	2	1	1	-	-	26	1.0
Other & Unspecified*		2	4	8	4	5	2	3	11	13	10	22	24	20	19	14	13	174	6.8
Total		18	24	28	35	59	56	89	145	230	255	276	339	313	289	225	196	2577	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

Table 26: Number of incidence cancers by five-year age group and site (ICD 10): 2018-2019
Females Varanasi district
 % = Relative proportion of cancers of all sites

ICD 10	Sites	0_4	5_9	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	0.1
C01-02	Tongue	-	-	-	-	1	-	-	3	7	3	7	4	6	8	8	1	48	2.4
C03-06	Mouth	-	-	-	-	-	-	4	7	7	11	10	12	10	7	7	8	83	4.2
C07-08	Salivary glands	-	-	-	-	-	1	-	-	-	-	1	-	2	-	-	-	4	0.2
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.1
C10	Other oropharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	0.1
C11	Nasopharynx	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	0.1
C12-13	Hypopharynx	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.1
C14	Pharynx unspecified	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	2	0.1
C15	Oesophagus	-	-	-	-	-	-	2	1	1	3	4	4	3	5	4	3	30	1.5
C16	Stomach	-	-	-	-	1	1	3	4	4	7	4	5	7	7	3	3	49	2.5
C17	Small intestine	-	-	-	-	-	-	-	-	-	2	1	-	-	1	-	-	4	0.2
C18	Colon	-	-	-	-	1	2	-	2	2	4	1	-	4	3	-	2	21	1.1
C19-20	Rectum	-	-	1	-	2	3	3	5	2	2	1	2	3	2	-	-	26	1.3
C21	Anus	-	-	-	-	1	-	-	3	-	-	1	-	-	-	-	1	6	0.3
C22	Liver	-	-	-	1	2	2	1	7	7	10	15	12	9	7	6	3	82	4.1
C23-24	Gallbladder etc.	-	-	-	-	2	1	7	22	24	32	44	35	37	35	20	11	270	13.6
C25	Pancreas	-	-	-	-	-	-	1	1	-	2	4	2	3	4	2	1	20	1.0
C30-31	Nose, sinuses etc.	-	-	-	-	-	-	-	-	3	-	1	2	-	1	-	1	8	0.4
C32	Larynx	-	-	-	1	-	-	-	-	2	-	1	-	1	-	-	1	6	0.3
C33-34	Trachea, bronchus and lung	-	-	-	-	-	2	1	4	7	7	8	17	4	13	3	6	72	3.6
C37-38	Other thoracic organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	Bone	-	1	4	2	1	2	4	-	3	2	1	-	4	2	-	-	26	1.3
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.1
C44	Other skin	-	-	-	1	-	1	-	1	2	-	2	2	2	4	-	1	16	0.8
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.1
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	2	-	-	3	-	-	-	2	-	-	2	1	-	3	1	-	14	0.7
C50	Breast	-	-	-	-	2	14	29	42	58	77	60	53	49	36	19	11	450	22.7
C51	Vulva	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	2	0.1
C52	Vagina	-	-	-	-	-	-	-	-	2	1	3	1	3	1	1	1	13	0.7
C53	Cervix uteri	-	-	-	-	4	5	8	12	21	26	23	38	52	27	15	8	239	12.1
C54	Corpus uteri	-	-	-	-	-	-	-	1	5	4	8	4	9	7	1	1	40	2.0
C55	Uterus unspecified	-	-	-	-	-	-	-	-	1	5	-	3	-	2	-	-	11	0.6
C56	Ovary	-	-	3	4	5	2	9	11	14	17	16	21	16	12	4	2	136	6.9
C57	Other female genital organs	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	2	0.1
C58	Placenta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	-	-	1	-	1	3	-	1	3	1	2	2	1	3	-	1	19	1.0
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	0.1
C67	Bladder	-	-	-	-	-	-	-	2	1	2	-	2	3	2	2	-	14	0.7
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	2	0.1
C70-72	Brain, nervous system	1	1	-	2	-	3	-	3	5	3	3	2	5	4	-	2	34	1.7
C73	Thyroid	-	-	-	1	2	3	-	5	3	7	1	3	2	1	1	1	30	1.5
C74	Adrenal gland	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	0.1
C81	Hodgkin disease	-	-	-	-	1	3	-	-	1	3	-	2	-	-	-	-	10	0.5
C82-85,C96	Non-Hodgkin lymphoma	-	3	1	2	-	-	1	1	3	1	1	4	4	2	-	4	27	1.4
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	-	-	-	-	-	-	4	1	-	1	2	1	9	0.5
C91	Lymphoid leukaemia	2	1	-	-	-	-	-	-	-	-	1	1	2	2	2	3	14	0.7
C92-94	Myeloid leukaemia	1	-	-	1	1	3	3	5	3	5	6	1	3	1	1	-	34	1.7
C95	Leukaemia unspecified	-	-	1	1	1	1	1	-	-	5	2	-	1	1	-	-	14	0.7
Other & Unspecified*		-	1	1	4	3	4	3	2	10	7	9	9	12	6	8	6	85	4.3
Total		6	7	12	24	31	56	81	148	202	251	248	248	258	213	111	86	1982	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

Table 27: Average annual Age-Specific, Crude (CR), Age-Adjusted (AAR) and Truncated (35-64 yrs) (TR) incidence rate per 100,000 population: 2018-2019 – Males Varanasi district

ICD 10	0_4	5_9	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	-	-	-	-	-	0.6	1.0	1.4	2.1	4.3	3.7	10.6	2.3	6.2	9.1	1.3	1.4	1.7	3.8
C01-C02	-	-	-	-	0.2	1.7	5.2	6.7	10.9	14.5	16.0	16.7	18.9	11.4	22.7	11.9	4.9	5.6	13.4
C03-C06	-	-	-	0.2	1.1	3.5	9.3	21.1	41.1	45.3	59.0	64.5	57.6	55.0	39.3	35.7	15.7	18.4	46.1
C07-C08	-	0.2	-	-	0.2	-	0.3	0.4	0.4	0.5	0.6	6.8	1.5	3.1	4.5	2.6	0.6	0.7	1.4
C09	-	-	-	-	-	-	0.3	-	-	-	1.8	3.8	0.8	1.0	1.5	-	0.3	0.4	0.9
C10	-	-	-	-	-	-	-	-	0.4	-	1.8	4.6	3.0	2.1	3.0	1.3	0.5	0.6	1.4
C11	-	-	-	-	0.2	-	-	-	-	-	0.6	-	-	1.0	1.5	-	0.1	0.1	0.1
C12-C13	-	-	-	-	-	-	-	-	-	0.5	1.2	3.8	5.3	5.2	9.1	9.2	0.8	1.0	1.5
C14	-	-	0.2	-	-	-	-	-	-	-	-	-	0.8	-	-	1.3	0.1	0.1	0.1
C15	-	-	-	-	-	-	0.3	-	1.3	3.9	4.3	5.3	15.1	14.5	10.6	7.9	1.7	2.2	4.3
C16	-	-	-	-	0.2	0.3	0.3	-	0.4	2.4	7.4	9.9	6.8	18.7	18.1	18.5	2.1	2.6	3.9
C17	-	-	-	-	-	-	-	0.4	-	1.4	-	-	1.5	1.0	-	1.3	0.2	0.2	0.5
C18	-	-	-	0.6	0.4	0.6	0.3	1.8	-	2.4	1.8	2.3	3.0	4.1	4.5	1.3	0.9	0.9	1.8
C19-C20	-	-	-	0.6	0.2	1.7	1.7	1.1	1.3	1.9	2.5	1.5	0.8	4.1	3.0	1.3	0.9	1.0	1.5
C21	-	-	-	0.2	-	-	0.3	0.4	-	1.0	1.2	2.3	0.8	-	-	-	0.3	0.3	0.8
C22	0.3	-	-	-	0.2	0.9	0.3	2.1	5.0	5.3	6.8	12.9	14.4	22.8	21.2	17.2	3.1	3.8	7.0
C23-C24	-	-	-	-	0.2	0.3	0.3	1.1	5.9	6.3	10.4	21.2	13.6	18.7	27.2	14.5	3.4	4.2	8.7
C25	-	-	-	-	0.2	0.3	0.3	0.7	1.7	1.4	2.5	5.3	3.8	4.1	4.5	5.3	0.9	1.1	2.3
C30-C31	0.3	-	-	0.4	-	0.3	-	0.4	0.4	-	0.6	-	-	-	-	2.6	0.2	0.2	0.2
C32	-	-	-	-	-	-	0.3	0.7	0.8	1.4	4.3	5.3	9.8	15.6	7.6	18.5	1.6	2.0	3.2
C33-C34	-	-	-	0.2	0.4	-	1.0	1.1	0.8	4.8	4.9	10.6	17.4	24.9	33.2	25.1	3.1	3.8	5.7
C37-C38	-	-	-	0.2	0.4	-	-	-	-	-	-	-	-	1.0	-	-	0.1	0.1	-
C40-C41	1.0	0.5	1.6	0.9	1.3	0.9	0.7	0.7	1.3	1.9	1.8	-	3.8	1.0	3.0	-	1.2	1.2	1.5
C43	-	-	-	-	-	-	-	-	-	-	-	0.8	-	1.0	1.5	1.3	0.1	0.1	0.1
C44	0.3	0.2	-	-	0.2	0.3	0.3	0.4	-	0.5	2.5	5.3	2.3	2.1	1.5	2.6	0.6	0.7	1.5
C45	-	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	0.0	0.0	0.1
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	-	0.5	0.2	0.4	0.2	-	-	0.7	1.3	2.4	-	0.8	1.5	1.0	4.5	5.3	0.6	0.7	1.1
C50	-	-	-	-	-	-	-	0.4	-	-	-	-	0.8	1.0	1.5	-	0.1	0.1	0.2
C60	-	-	-	-	-	-	-	-	-	-	0.6	3.8	1.5	1.0	-	1.3	0.2	0.3	0.8
C61	-	-	-	-	-	-	-	-	0.8	1.0	3.1	10.6	11.4	19.7	43.8	35.7	2.7	3.3	3.7
C62	0.3	-	-	-	0.2	0.9	0.7	0.7	-	-	1.2	1.5	-	-	-	-	0.3	0.3	0.5
C63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	0.7	0.2	-	-	0.4	0.3	0.7	-	1.7	3.4	3.1	3.8	3.8	7.3	6.0	6.6	1.2	1.4	2.5
C65	-	-	-	-	-	-	-	-	-	-	0.6	-	-	-	-	-	0.0	0.0	0.1
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	0.3	0.4	0.8	2.9	4.3	7.6	4.5	8.3	9.1	5.3	1.2	1.5	3.0
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	1.5	-	0.0	0.1	0.0
C69	-	-	0.2	-	-	-	0.3	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0
C70-C72	0.3	0.5	0.4	0.6	0.9	0.3	1.4	0.4	1.7	2.4	-	2.3	3.8	3.1	1.5	2.6	1.0	1.0	1.6
C73	-	-	-	-	0.4	0.3	-	0.4	0.4	0.5	-	0.8	0.8	1.0	4.5	-	0.3	0.3	0.4
C74	-	-	-	-	-	-	-	-	-	-	0.6	-	-	1.0	-	-	0.0	0.1	0.1
C81	0.3	0.5	-	-	0.7	-	0.7	0.4	1.7	0.5	-	0.8	-	-	-	-	0.4	0.4	0.6
C82-C85,C96	0.3	0.2	0.6	0.2	1.3	-	0.3	-	4.2	1.4	2.5	5.3	2.3	6.2	10.6	-	1.3	1.4	2.5
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	0.4	0.4	1.4	1.8	3.0	5.3	5.2	7.6	1.3	0.7	0.9	1.8
C91	0.7	0.5	-	0.2	0.7	0.3	0.3	0.4	0.4	0.5	-	3.0	-	3.1	1.5	1.3	0.5	0.6	0.6
C92-C94	0.7	0.5	0.4	0.6	0.2	2.0	1.7	1.8	3.4	1.4	2.5	0.8	2.3	1.0	-	1.3	1.1	1.2	2.1
C95	-	1.0	0.4	0.7	1.1	0.3	0.3	1.4	-	0.5	-	1.5	0.8	1.0	-	-	0.6	0.6	0.7
O&U	0.7	1.0	1.6	0.7	1.1	0.6	1.0	3.9	5.5	4.8	13.5	18.2	15.1	19.7	21.2	17.2	4.1	4.8	9.2
Total	6.2	6.0	5.6	6.5	13.1	16.2	30.6	50.9	96.6	122.9	169.6	257.2	237.0	299.8	340.0	258.8	61.2	72.1	143.4

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

Table 28: Average annual Age-Specific, Crude (CR), Age-Adjusted (AAR) and Truncated (35-64 yrs) (TR) incidence rate per 100,000 population: 2018-2019 – Females Varanasi district

ICD 10	0_4	5_9	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	-	-	-	-	-	-	-	-	-	-	0.7	-	-	-	-	-	0.0	0.0	0.1
C01-02	-	-	-	-	0.3	-	-	1.1	3.1	1.5	4.7	3.0	4.8	9.3	13.4	1.4	1.2	1.5	2.9
C03-06	-	-	-	-	-	-	1.4	2.5	3.1	5.6	6.7	8.9	8.0	8.1	11.7	10.8	2.2	2.5	5.4
C07-08	-	-	-	-	-	0.3	-	-	-	-	0.7	-	1.6	-	-	-	0.1	0.1	0.3
C09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	0.0	0.0	0.0
C10	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	1.4	0.1	0.1	0.0
C11	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0
C12-13	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	-	-	0.0	0.0	0.1
C14	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	1.4	0.1	0.0	0.1
C15	-	-	-	-	-	-	0.7	0.4	0.4	1.5	2.7	3.0	2.4	5.8	6.7	4.1	0.8	0.9	1.6
C16	-	-	-	-	0.3	0.3	1.0	1.4	1.8	3.6	2.7	3.7	5.6	8.1	5.0	4.1	1.3	1.4	2.9
C17	-	-	-	-	-	-	-	-	-	1.0	0.7	-	-	1.2	-	-	0.1	0.1	0.3
C18	-	-	-	-	0.3	0.6	-	0.7	0.9	2.0	0.7	-	3.2	3.5	-	2.7	0.5	0.6	1.2
C19-20	-	-	0.2	-	0.5	0.9	1.0	1.8	0.9	1.0	0.7	1.5	2.4	2.3	-	-	0.7	0.7	1.3
C21	-	-	-	-	0.3	-	-	1.1	-	-	0.7	-	-	-	-	1.4	0.2	0.1	0.3
C22	-	-	-	0.2	0.5	0.6	0.3	2.5	3.1	5.1	10.0	8.9	7.2	8.1	10.0	4.1	2.1	2.4	5.8
C23-24	-	-	-	-	0.5	0.3	2.4	7.8	10.5	16.4	29.4	26.0	29.6	40.6	33.4	14.9	7.0	8.2	18.6
C25	-	-	-	-	-	-	0.3	0.4	-	1.0	2.7	1.5	2.4	4.6	3.3	1.4	0.5	0.6	1.2
C30-31	-	-	-	-	-	-	-	-	1.3	-	0.7	1.5	-	1.2	-	1.4	0.2	0.2	0.6
C32	-	-	-	0.2	-	-	-	-	0.9	-	0.7	-	0.8	-	-	1.4	0.2	0.2	0.4
C33-34	-	-	-	-	-	0.6	0.3	1.4	3.1	3.6	5.3	12.6	3.2	15.1	5.0	8.1	1.9	2.2	4.5
C37-38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	-	0.3	0.9	0.4	0.3	0.6	1.4	-	1.3	1.0	0.7	-	3.2	2.3	-	-	0.7	0.7	1.0
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	0.0	0.0	0.0
C44	-	-	-	0.2	-	0.3	-	0.4	0.9	-	1.3	1.5	1.6	4.6	-	1.4	0.4	0.5	0.9
C45	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	-	-	0.0	0.0	0.1
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	0.8	-	-	0.6	-	-	-	0.7	-	-	1.3	0.7	-	3.5	1.7	-	0.4	0.4	0.4
C50	-	-	-	-	0.5	4.3	9.9	14.9	25.4	39.4	40.1	39.3	39.3	41.7	31.7	14.9	11.7	13.1	32.0
C51	-	-	-	-	-	-	-	-	-	-	-	-	0.8	1.2	-	-	0.1	0.1	0.1
C52	-	-	-	-	-	-	-	-	0.9	0.5	2.0	0.7	2.4	1.2	1.7	1.4	0.3	0.4	1.0
C53	-	-	-	-	1.1	1.5	2.7	4.3	9.2	13.3	15.4	28.2	41.7	31.3	25.0	10.8	6.2	7.2	16.7
C54	-	-	-	-	-	-	-	0.4	2.2	2.0	5.3	3.0	7.2	8.1	1.7	1.4	1.0	1.3	3.1
C55	-	-	-	-	-	-	-	-	0.4	2.6	-	2.2	-	2.3	-	-	0.3	0.3	0.9
C56	-	-	0.7	0.8	1.4	0.6	3.1	3.9	6.1	8.7	10.7	15.6	12.8	13.9	6.7	2.7	3.5	3.9	9.0
C57	-	-	-	-	-	-	-	-	-	0.5	-	-	-	-	1.7	-	0.1	0.1	0.1
C58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	-	-	0.2	-	0.3	0.9	-	0.4	1.3	0.5	1.3	1.5	0.8	3.5	-	1.4	0.5	0.5	0.9
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	0.0	0.0	0.1
C67	-	-	-	-	-	-	-	0.7	0.4	1.0	-	1.5	2.4	2.3	3.3	-	0.4	0.4	0.9
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	-	-	-	-	-	-	-	-	-	0.5	-	0.7	-	-	-	-	0.1	0.1	0.2
C70-72	0.4	0.3	-	0.4	-	0.9	-	1.1	2.2	1.5	2.0	1.5	4.0	4.6	-	2.7	0.9	1.0	2.0
C73	-	-	-	0.2	0.5	0.9	-	1.8	1.3	3.6	0.7	2.2	1.6	1.2	1.7	1.4	0.8	0.8	1.9
C74	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0
C81	-	-	-	-	0.3	0.9	-	-	0.4	1.5	-	1.5	-	-	-	-	0.3	0.3	0.6
C82-85,C96	-	0.9	0.2	0.4	-	-	0.3	0.4	1.3	0.5	0.7	3.0	3.2	2.3	-	5.4	0.7	0.8	1.3
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	-	-	2.7	0.7	-	1.2	3.3	1.4	0.2	0.3	0.5
C91	0.8	0.3	-	-	-	-	-	-	-	-	0.7	0.7	1.6	2.3	3.3	4.1	0.4	0.5	0.4
C92-94	0.4	-	-	0.2	0.3	0.9	1.0	1.8	1.3	2.6	4.0	0.7	2.4	1.2	1.7	-	0.9	1.0	2.1
C95	-	-	0.2	0.2	0.3	0.3	0.3	-	-	2.6	1.3	-	0.8	1.2	-	-	0.4	0.4	0.8
O&U	-	0.3	0.2	0.8	0.8	1.2	1.0	0.7	4.4	3.6	6.0	6.7	9.6	7.0	13.4	8.1	2.2	2.5	4.7
Total	2.5	2.1	2.6	4.9	8.4	17.1	27.7	52.6	88.6	128.4	165.5	183.9	206.7	246.9	185.3	116.2	51.5	58.4	129.3

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

Table 29: 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) 2018-2019: Males

ICD 10	Sites	Cum Rate (0-64)	Cum Risk (0-64)	Cum Rate (0-74)	Cum Risk (0-74)
C00	Lip	0.0013	0.0013	0.0021	0.0021
C01-C02	Tongue	0.0045	0.0045	0.0062	0.0062
C03-C06	Mouth	0.0151	0.0151	0.0198	0.0198
C07-C08	Salivary glands	0.0006	0.0006	0.0009	0.0009
C09	Tonsil	0.0003	0.0003	0.0005	0.0005
C10	Other oropharynx	0.0005	0.0005	0.0007	0.0007
C11	Nasopharynx	0.0000	0.0000	0.0002	0.0002
C12-C13	Hypopharynx	0.0005	0.0005	0.0013	0.0013
C14	Pharynx unspecified	-	-	-	-
C15	Oesophagus	0.0015	0.0015	0.0028	0.0028
C16	Stomach	0.0014	0.0014	0.0032	0.0032
C17	Small intestine	0.0002	0.0002	0.0002	0.0002
C18	Colon	0.0007	0.0007	0.0011	0.0011
C19-C20	Rectum	0.0007	0.0007	0.0010	0.0010
C21	Anus	0.0003	0.0003	0.0003	0.0003
C22	Liver	0.0024	0.0024	0.0046	0.0046
C23-C24	Gallbladder etc.	0.0030	0.0030	0.0053	0.0053
C25	Pancreas	0.0008	0.0008	0.0012	0.0012
C30-C31	Nose, sinuses etc.	0.0001	0.0001	0.0001	0.0001
C32	Larynx	0.0011	0.0011	0.0023	0.0023
C33-C34	Trachea, bronchus and lung	0.0021	0.0021	0.0050	0.0050
C37-C38	Other thoracic organs	0.0000	0.0000	0.0001	0.0001
C40-C41	Bone	0.0008	0.0008	0.0010	0.0010
C43	Melanoma of skin	0.0000	0.0000	0.0002	0.0002
C44	Other skin	0.0006	0.0006	0.0008	0.0008
C45	Mesothelioma	-	-	-	-
C46	Kaposi sarcoma	-	-	-	-
C47,C49	Connective and soft tissue	0.0004	0.0004	0.0007	0.0007
C50	Breast	0.0001	0.0001	0.0002	0.0002
C60	Penis	0.0003	0.0003	0.0003	0.0003
C61	Prostate	0.0013	0.0013	0.0045	0.0045
C62	Testis	0.0003	0.0003	0.0003	0.0003
C63	Other male genital organs	-	-	-	-
C64	Kidney	0.0009	0.0009	0.0016	0.0016
C65	Renal pelvis	-	-	-	-
C66	Ureter	-	-	-	-
C67	Bladder	0.0010	0.0010	0.0019	0.0019
C68	Other urinary organs	0.0000	0.0000	0.0001	0.0001
C69	Eye	-	-	-	-
C70-C72	Brain, nervous system	0.0007	0.0007	0.0010	0.0010
C73	Thyroid	0.0002	0.0002	0.0005	0.0005
C74	Adrenal gland	0.0000	0.0000	0.0001	0.0001
C81	Hodgkin disease	0.0003	0.0003	0.0003	0.0003
C82-C85,C96	Non-Hodgkin lymphoma	0.0009	0.0009	0.0018	0.0018
C88	Immunoproliferative diseases	-	-	-	-
C90	Multiple myeloma	0.0006	0.0006	0.0013	0.0013
C91	Lymphoid leukaemia	0.0003	0.0003	0.0006	0.0006
C92-C94	Myeloid leukaemia	0.0009	0.0009	0.0010	0.0010
C95	Leukaemia unspecified	0.0004	0.0004	0.0005	0.0005
Other & Unspecified*		0.0034	0.0034	0.0054	0.0054
Total		0.0509	0.0509	0.0829	0.0829

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, 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) 2018-2019: Females

ICD 10	Sites	Cum Rate (0-64)	Cum Risk (0-64)	Cum Rate (0-74)	Cum Risk (0-74)
C00	Lip	-	-	-	-
C01-02	Tongue	0.0009	0.0009	0.0021	0.0021
C03-06	Mouth	0.0018	0.0018	0.0028	0.0028
C07-08	Salivary glands	0.0001	0.0001	0.0001	0.0001
C09	Tonsil	-	-	-	-
C10	Other oropharynx	0.0000	0.0000	0.0001	0.0001
C11	Nasopharynx	-	-	-	-
C12-13	Hypopharynx	-	-	-	-
C14	Pharynx unspecified	-	-	-	-
C15	Oesophagus	0.0006	0.0006	0.0012	0.0012
C16	Stomach	0.0010	0.0010	0.0017	0.0017
C17	Small intestine	0.0001	0.0001	0.0001	0.0001
C18	Colon	0.0004	0.0004	0.0006	0.0006
C19-20	Rectum	0.0005	0.0005	0.0007	0.0007
C21	Anus	0.0001	0.0001	0.0001	0.0001
C22	Liver	0.0019	0.0019	0.0028	0.0028
C23-24	Gallbladder etc.	0.0061	0.0061	0.0098	0.0098
C25	Pancreas	0.0004	0.0004	0.0008	0.0008
C30-31	Nose, sinuses etc.	0.0002	0.0002	0.0002	0.0002
C32	Larynx	0.0001	0.0001	0.0001	0.0001
C33-34	Trachea, bronchus and lung	0.0015	0.0015	0.0025	0.0025
C37-38	Other thoracic organs	-	-	-	-
C40-41	Bone	0.0005	0.0005	0.0006	0.0006
C43	Melanoma of skin	-	-	0.0001	0.0001
C44	Other skin	0.0003	0.0003	0.0005	0.0005
C45	Mesothelioma	-	-	-	-
C46	Kaposi sarcoma	-	-	-	-
C47,C49	Connective and soft tissue	0.0002	0.0002	0.0005	0.0005
C50	Breast	0.0107	0.0107	0.0143	0.0143
C51	Vulva	0.0000	0.0000	0.0001	0.0001
C52	Vagina	0.0003	0.0003	0.0005	0.0005
C53	Cervix uteri	0.0059	0.0059	0.0087	0.0087
C54	Corpus uteri	0.0010	0.0010	0.0015	0.0015
C55	Uterus unspecified	0.0003	0.0003	0.0004	0.0004
C56	Ovary	0.0032	0.0032	0.0042	0.0042
C57	Other female genital organs	0.0000	0.0000	0.0001	0.0001
C58	Placenta	-	-	-	-
C64	Kidney	0.0004	0.0004	0.0005	0.0005
C65	Renal pelvis	-	-	-	-
C66	Ureter	-	-	-	-
C67	Bladder	0.0003	0.0003	0.0006	0.0006
C68	Other urinary organs	-	-	-	-
C69	Eye	0.0001	0.0001	0.0001	0.0001
C70-72	Brain, nervous system	0.0007	0.0007	0.0009	0.0009
C73	Thyroid	0.0006	0.0006	0.0008	0.0008
C74	Adrenal gland	-	-	-	-
C81	Hodgkin disease	0.0002	0.0002	0.0002	0.0002
C82-85,C96	Non-Hodgkin lymphoma	0.0005	0.0005	0.0007	0.0007
C88	Immunoproliferative diseases	-	-	-	-
C90	Multiple myeloma	0.0002	0.0002	0.0004	0.0004
C91	Lymphoid leukaemia	0.0002	0.0002	0.0005	0.0005
C92-94	Myeloid leukaemia	0.0008	0.0008	0.0009	0.0009
C95	Leukaemia unspecified	0.0003	0.0003	0.0004	0.0004
Other & Unspecified*		0.0018	0.0018	0.0028	0.0028
Total		0.0445	0.0445	0.0662	0.0661

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

**Table 31: Number (#) and Proportion (%) of cancers by site (ICD10) and method of diagnosis:
2018-2019 – Males Varanasi district**

ICD 10	Sites	Clinical		Radiology		Microscopic		Other (+DCO)**		Total #	
		Number	%	Number	%	Number	%	Number	%	Number	%
C00	Lip	6	10.2	2	3.4	46	78.0	5	8.5	59	100.0
C01-C02	Tongue	17	8.3	7	3.4	172	83.9	9	4.4	205	100.0
C03-C06	Mouth	59	8.9	51	7.7	437	66.2	113	17.1	660	100.0
C07-C08	Salivary glands	3	11.5	1	3.8	21	80.8	1	3.8	26	100.0
C09	Tonsil	1	8.3	1	8.3	10	83.3	-	-	12	100.0
C10	Other oropharynx	3	15.8	1	5.3	15	78.9	-	-	19	100.0
C11	Nasopharynx	-	-	-	-	4	100.0	-	-	4	100.0
C12-C13	Hypopharynx	4	12.1	4	12.1	25	75.8	-	-	33	100.0
C14	Pharynx unspecified	-	-	-	-	-	-	3	100.0	3	100.0
C15	Oesophagus	6	8.3	6	8.3	53	73.6	7	9.7	72	100.0
C16	Stomach	6	6.9	10	11.5	56	64.4	15	17.2	87	100.0
C17	Small intestine	-	-	4	50.0	2	25.0	2	25.0	8	100.0
C18	Colon	6	16.7	4	11.1	24	66.7	2	5.6	36	100.0
C19-C20	Rectum	4	10.3	2	5.1	29	74.4	4	10.3	39	100.0
C21	Anus	-	-	3	27.3	8	72.7	-	-	11	100.0
C22	Liver	8	6.1	26	19.8	50	38.2	47	35.9	131	100.0
C23-C24	Gallbladder etc.	20	14.0	37	25.9	56	39.2	30	21.0	143	100.0
C25	Pancreas	3	7.7	12	30.8	22	56.4	2	5.1	39	100.0
C30-C31	Nose, sinuses etc.	1	11.1	1	11.1	7	77.8	-	-	9	100.0
C32	Larynx	7	10.1	10	14.5	49	71.0	3	4.3	69	100.0
C33-C34	Trachea, bronchus and lung	11	8.4	33	25.2	73	55.7	14	10.7	131	100.0
C37-C38	Other thoracic organs	-	-	-	-	4	100.0	-	-	4	100.0
C40-C41	Bone	3	6.1	11	22.4	30	61.2	5	10.2	49	100.0
C43	Melanoma of skin	-	-	-	-	4	100.0	-	-	4	100.0
C44	Other skin	-	-	-	-	23	88.5	3	11.5	26	100.0
C45	Mesothelioma	-	-	-	-	1	100.0	-	-	1	100.0
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	1	3.7	1	3.7	23	85.2	2	7.4	27	100.0
C50	Breast	-	-	1	25.0	3	75.0	-	-	4	100.0
C60	Penis	1	10.0	-	-	7	70.0	2	20.0	10	100.0
C61	Prostate	9	8.3	9	8.3	77	71.3	13	12.0	108	100.0
C62	Testis	-	-	3	23.1	9	69.2	1	7.7	13	100.0
C63	Other male genital organs	-	-	-	-	-	-	-	-	-	-
C64	Kidney	-	-	8	16.0	38	76.0	4	8.0	50	100.0
C65	Renal pelvis	1	100.0	-	-	-	-	-	-	1	100.0
C66	Ureter	-	-	-	-	-	-	-	-	-	-
C67	Bladder	5	9.8	6	11.8	39	76.5	1	2.0	51	100.0
C68	Other urinary organs	-	-	-	-	1	50.0	1	50.0	2	100.0
C69	Eye	-	-	1	50.0	1	50.0	-	-	2	100.0
C70-C72	Brain, nervous system	2	4.9	8	19.5	24	58.5	7	17.1	41	100.0
C73	Thyroid	1	8.3	1	8.3	10	83.3	-	-	12	100.0
C74	Adrenal gland	-	-	1	50.0	1	50.0	-	-	2	100.0
C81	Hodgkin disease	-	-	-	-	15	100.0	-	-	15	100.0
C82-C85,C96	Non-Hodgkin lymphoma	-	-	-	-	53	100.0	-	-	53	100.0
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	30	100.0	-	-	30	100.0
C91	Lymphoid leukaemia	-	-	-	-	22	100.0	-	-	22	100.0
C92-C94	Myeloid leukaemia	-	-	-	-	48	100.0	-	-	48	100.0
C95	Leukaemia unspecified	-	-	-	-	26	100.0	-	-	26	100.0
Other & Unspecified*		23	13.2	23	13.2	42	24.1	86	49.4	174	100
Total		211	8.2	288	11.2	1690	65.7	382	14.9	2571	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

** Other: Information based on patient's relatives, medical note and DCO # 6 case of Specific tumor marker

**Table 32: Number (#) and Proportion (%) of cancers by site (ICD10) and method of diagnosis:
2018-2019 – Females Varanasi district**

ICD 10	Sites	Clinical		Radiology		Microscopic		Other (+DCO)**		Total #	
		Number	%	Number	%	Number	%	Number	%	Number	%
C00	Lip	-	-	-	-	1	100.0	-	-	1	100.0
C01-02	Tongue	8	16.7	4	8.3	33	68.8	3	6.3	48	100.0
C03-06	Mouth	8	9.6	4	4.8	50	60.2	21	25.3	83	100.0
C07-08	Salivary glands	-	-	-	-	3	75.0	1	25.0	4	100.0
C09	Tonsil	-	-	-	-	1	100.0	-	-	1	100.0
C10	Other oropharynx	-	-	-	-	2	100.0	-	-	2	100.0
C11	Nasopharynx	-	-	-	-	1	100.0	-	-	1	100.0
C12-13	Hypopharynx	-	-	-	-	1	100.0	-	-	1	100.0
C14	Pharynx unspecified	-	-	1	50.0	1	50.0	-	-	2	100.0
C15	Oesophagus	3	10.0	6	20.0	20	66.7	1	3.3	30	100.0
C16	Stomach	2	4.1	8	16.3	27	55.1	12	24.5	49	100.0
C17	Small intestine	-	-	1	25.0	2	50.0	1	25.0	4	100.0
C18	Colon	2	9.5	3	14.3	15	71.4	1	4.8	21	100.0
C19-20	Rectum	1	3.8	2	7.7	23	88.5	-	-	26	100.0
C21	Anus	1	16.7	-	-	3	50.0	2	33.3	6	100.0
C22	Liver	8	9.8	11	13.4	31	37.8	32	39.0	82	100.0
C23-24	Gallbladder etc.	23	8.5	84	31.1	136	50.4	27	10.0	270	100.0
C25	Pancreas	3	15.0	8	40.0	7	35.0	2	10.0	20	100.0
C30-31	Nose, sinuses etc.	-	-	-	-	7	87.5	1	12.5	8	100.0
C32	Larynx	-	-	-	-	6	100.0	-	-	6	100.0
C33-34	Trachea, bronchus and lung	3	4.2	11	15.3	50	69.4	8	11.1	72	100.0
C37-38	Other thoracic organs	-	-	-	-	-	-	-	-	-	-
C40-41	Bone	-	-	3	11.5	22	84.6	1	3.8	26	100.0
C43	Melanoma of skin	-	-	-	-	1	100.0	-	-	1	100.0
C44	Other skin	-	-	3	18.8	11	68.8	2	12.5	16	100.0
C45	Mesothelioma	-	-	-	-	1	100.0	-	-	1	100.0
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	-	-	-	-	13	92.9	1	7.1	14	100.0
C50	Breast	35	7.8	16	3.6	346	76.9	53	11.8	450	100.0
C51	Vulva	-	-	-	-	2	100.0	-	-	2	100.0
C52	Vagina	1	7.7	-	-	12	92.3	-	-	13	100.0
C53	Cervix uteri	23	9.6	28	11.7	148	61.9	40	16.7	239	100.0
C54	Corpus uteri	2	5.0	7	17.5	31	77.5	-	-	40	100.0
C55	Uterus unspecified	2	18.2	2	18.2	4	36.4	3	27.3	11	100.0
C56	Ovary	12	9.0	24	17.9	90	67.2	8	6.0	134	100.0
C57	Other female genital organs	-	-	1	50.0	1	50.0	-	-	2	100.0
C58	Placenta	-	-	-	-	-	-	-	-	-	-
C64	Kidney	2	10.5	1	5.3	12	63.2	4	21.1	19	100.0
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	1	100.0	-	-	1	100.0
C67	Bladder	1	7.1	2	14.3	10	71.4	1	7.1	14	100.0
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	1	50.0	-	-	1	50.0	2	100.0
C70-72	Brain, nervous system	3	8.8	9	26.5	12	35.3	10	29.4	34	100.0
C73	Thyroid	3	10.0	3	10.0	23	76.7	1	3.3	30	100.0
C74	Adrenal gland	-	-	-	-	1	100.0	-	-	1	100.0
C81	Hodgkin disease	-	-	-	-	10	100.0	-	-	10	100.0
C82-85,C96	Non-Hodgkin lymphoma	-	-	-	-	27	100.0	-	-	27	100.0
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	9	100.0	-	-	9	100.0
C91	Lymphoid leukaemia	-	-	-	-	14	100.0	-	-	14	100.0
C92-94	Myeloid leukaemia	-	-	-	-	34	100.0	-	-	34	100.0
C95	Leukaemia unspecified	-	-	-	-	14	100.0	-	-	14	100.0
Other & Unspecified*		15	18.1	12	14.5	17	20.5	39	47.0	83	100.0
Total		161	8.1	255	12.9	1286	65.0	276	14.0	1978	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

** Other: Information based on patient's relatives, medical note and DCO # 4 case of Specific tumor marker

Table 33: Number of cancer deaths by five year age group and site (ICD 10): 2018-2019 Males
Varanasi district

% = Relative proportion of cancers of all sites

ICD 10	Sites	0_4	5_9	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	-	2	5	1	7	2	2	6	3	29	1.9
C01-C02	Tongue	-	-	-	-	-	5	6	11	10	11	13	9	11	7	9	5	97	6.2
C03-C06	Mouth	-	-	-	1	4	7	10	36	41	57	53	48	39	35	20	18	369	23.7
C07-C08	Salivary glands	-	-	-	-	-	-	-	-	-	-	1	2	-	4	2	1	10	0.6
C09	Tonsil	-	-	-	-	-	-	1	-	-	-	1	3	-	2	1	-	8	0.5
C10	Other oropharynx	-	-	-	-	-	-	-	-	-	-	2	5	1	1	2	3	14	0.9
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	3	0.2
C12-C13	Hypopharynx	-	-	-	-	-	-	-	-	-	1	2	5	2	4	-	3	17	1.1
C14	Pharynx unspecified	-	-	-	-	-	-	-	-	1	-	-	2	1	-	-	1	5	0.3
C15	Oesophagus	-	-	-	-	-	-	1	1	2	6	2	9	14	12	5	2	54	3.5
C16	Stomach	-	-	1	-	-	-	2	-	2	5	9	8	8	11	8	8	62	4.0
C17	Small intestine	-	-	-	-	-	-	-	-	-	2	-	1	2	2	-	-	7	0.5
C18	Colon	-	-	-	-	3	1	-	4	1	3	-	2	3	4	-	2	23	1.5
C19-C20	Rectum	-	-	1	1	1	2	3	4	4	1	-	-	1	1	3	2	24	1.5
C21	Anus	-	-	-	1	-	-	-	1	-	1	1	1	-	-	-	-	5	0.3
C22	Liver	1	-	-	-	1	2	-	6	9	9	10	13	16	21	12	11	111	7.1
C23-C24	Gallbladder etc.	-	-	-	-	1	2	1	3	7	8	9	20	17	12	9	9	98	6.3
C25	Pancreas	-	-	-	-	-	-	-	1	2	3	3	4	4	4	3	3	27	1.7
C30-C31	Nose, sinuses etc.	-	-	-	1	-	-	-	-	-	1	1	-	1	-	1	2	7	0.5
C32	Larynx	-	-	-	-	-	-	-	1	-	1	3	5	4	7	4	9	34	2.2
C33-C34	Trachea, bronchus and lung	-	-	-	1	1	-	2	2	3	7	6	7	14	14	19	16	92	5.9
C37-C38	Other thoracic organs	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.1
C40-C41	Bone	1	2	1	3	6	-	1	1	2	2	1	-	4	1	3	-	28	1.8
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	0.2
C44	Other skin	1	-	-	-	-	2	-	3	-	2	1	2	4	2	1	2	20	1.3
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	-	-	1	3	2	-	-	1	3	2	-	2	-	1	2	2	19	1.2
C50	Breast	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.1
C60	Penis	-	-	-	-	-	-	-	-	1	-	-	2	1	1	1	1	7	0.5
C61	Prostate	-	-	-	-	-	-	-	1	-	1	-	6	11	10	15	10	54	3.5
C62	Testis	-	-	-	-	-	-	2	2	-	-	1	1	-	-	-	-	6	0.4
C63	Other male genital organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	1	-	-	-	-	-	-	-	-	1	3	1	2	2	4	2	16	1.0
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	0.1
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	-	-	1	-	-	1	1	2	5	2	7	3	4	3	29	1.9
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C70-C72	Brain, nervous system	-	3	-	1	3	2	1	1	3	5	-	4	3	1	-	4	31	2.0
C73	Thyroid	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	2	0.1
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	0.1
C81	Hodgkin disease	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	3	0.2
C82-C85,C96	Non-Hodgkin lymphoma	-	-	1	2	4	-	-	-	3	2	1	6	-	3	3	-	25	1.6
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	-	-	-	-	-	1	2	3	5	-	3	-	14	0.9
C91	Lymphoid leukaemia	1	1	1	-	1	1	2	-	1	1	-	1	1	-	-	-	11	0.7
C92-C94	Myeloid leukaemia	-	-	-	-	1	2	1	-	2	3	2	-	-	-	-	1	12	0.8
C95	Leukaemia unspecified	-	3	1	2	3	-	-	4	1	1	-	1	-	-	-	-	16	1.0
Other & Unspecified*		2	2	7	5	5	3	4	8	14	11	15	17	18	16	18	13	158	10.2
Total		7	11	14	21	37	29	39	92	117	155	151	201	196	185	162	137	1554	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

Table 34: Number of cancer deaths by five year age group and site (ICD 10): 2018-2019 Females
Varanasi district

% = Relative proportion of cancers of all sites

ICD 10	Sites	0_4	5_9	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	0.1
C01-02	Tongue	-	-	-	-	-	-	1	2	-	1	5	2	1	3	4	1	20	1.9
C03-06	Mouth	-	-	-	-	-	-	3	4	3	7	5	7	6	6	6	7	54	5.0
C07-08	Salivary glands	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	3	0.3
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.1
C10	Other oropharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13	Hypopharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14	Pharynx unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.1
C15	Oesophagus	-	-	-	-	-	-	1	-	1	1	3	1	3	3	2	1	16	1.5
C16	Stomach	-	-	-	-	1	1	3	2	4	5	5	5	5	4	3	1	39	3.6
C17	Small intestine	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	0.1
C18	Colon	-	-	-	-	1	1	-	-	-	2	-	-	2	2	1	-	9	0.8
C19-20	Rectum	-	-	-	-	1	1	2	1	-	1	3	1	-	-	-	-	10	0.9
C21	Anus	-	-	-	-	1	-	-	1	-	-	2	-	-	-	-	1	5	0.5
C22	Liver	-	-	-	-	2	1	1	3	4	9	13	11	7	4	6	5	66	6.1
C23-24	Gallbladder etc.	-	-	-	-	2	1	5	15	23	31	28	22	26	30	18	7	208	19.3
C25	Pancreas	-	-	-	-	-	-	1	1	-	3	4	1	3	5	1	1	20	1.9
C30-31	Nose, sinuses etc.	-	-	-	-	-	-	1	-	-	1	1	2	1	-	-	-	6	0.6
C32	Larynx	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	3	0.3
C33-34	Trachea, bronchus and lung	-	-	-	-	-	-	1	2	5	3	4	12	3	9	4	5	48	4.5
C37-38	Other thoracic organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	Bone	-	-	2	-	-	-	1	-	-	1	1	-	1	1	-	-	7	0.7
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	Other skin	-	-	-	-	-	-	-	-	-	-	-	2	-	1	1	1	5	0.5
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.1
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	1	-	-	1	-	-	-	1	-	-	1	1	-	1	-	1	7	0.7
C50	Breast	-	-	-	1	3	7	6	11	21	32	29	23	20	19	8	6	186	17.3
C51	Vulva	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.1
C52	Vagina	-	-	-	-	-	-	-	-	1	2	1	1	2	-	1	2	10	0.9
C53	Cervix uteri	-	-	-	-	1	2	2	4	11	16	18	29	19	12	17	12	143	13.3
C54	Corpus uteri	-	-	-	-	-	-	-	-	-	1	2	1	1	-	2	1	8	0.7
C55	Uterus unspecified	-	-	-	-	-	-	-	-	-	1	1	-	1	1	-	-	4	0.4
C56	Ovary	-	-	-	-	-	-	4	4	6	4	10	9	4	2	3	1	47	4.4
C57	Other female genital organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	0.1
C58	Placenta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	1	-	-	-	1	2	-	1	4	-	-	-	1	1	-	-	11	1.0
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	-	-	-	-	-	1	-	-	-	1	1	-	2	-	5	0.5
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.1
C70-72	Brain, nervous system	3	-	-	-	-	2	-	1	-	2	2	3	3	3	-	2	21	2.0
C73	Thyroid	-	-	-	-	-	-	-	-	-	-	-	2	2	-	2	-	6	0.6
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	Hodgkin disease	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	0.1
C82-85,C96	Non-Hodgkin lymphoma	-	-	-	2	-	-	-	-	1	1	1	4	-	1	-	-	10	0.9
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2	0.2
C91	Lymphoid leukaemia	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	4	0.4
C92-94	Myeloid leukaemia	-	-	-	-	2	-	1	2	2	1	3	1	2	-	1	-	15	1.4
C95	Leukaemia unspecified	-	-	1	1	1	-	1	-	-	3	1	-	-	-	-	-	8	0.7
Other & Unspecified*		-	1	1	3	2	2	4	2	5	6	7	6	8	5	5	4	61	5.7
Total		5	1	4	8	18	21	38	59	91	135	154	150	124	117	89	62	1076	100.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

Table 35: Average annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35-64 yrs) (TR) mortality rate per 100,000 population: 2018-2019 – Males Varanasi district

ICD 10	0_4	5_9	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	-	-	-	-	-	-	0.3	-	0.8	2.4	0.6	5.3	1.5	2.1	9.1	4.0	0.7	0.8	1.6
C01-C02	-	-	-	-	-	1.4	2.1	3.9	4.2	5.3	8.0	6.8	8.3	7.3	13.6	6.6	2.3	2.7	5.8
C03-C06	-	-	-	0.2	0.9	2.0	3.4	12.6	17.2	27.5	32.6	36.4	29.5	36.3	30.2	23.8	8.8	10.3	24.9
C07-C08	-	-	-	-	-	-	-	-	-	-	0.6	1.5	-	4.1	3.0	1.3	0.2	0.3	0.3
C09	-	-	-	-	-	-	0.3	-	-	-	0.6	2.3	-	2.1	1.5	-	0.2	0.2	0.4
C10	-	-	-	-	-	-	-	-	-	-	1.2	3.8	0.8	1.0	3.0	4.0	0.3	0.4	0.8
C11	-	-	-	-	-	-	-	-	-	-	-	0.8	-	1.0	1.5	-	0.1	0.1	0.1
C12-C13	-	-	-	-	-	-	-	-	-	0.5	1.2	3.8	1.5	4.1	-	4.0	0.4	0.5	1.0
C14	-	-	-	-	-	-	-	-	0.4	-	-	1.5	0.8	-	-	1.3	0.1	0.1	0.4
C15	-	-	-	-	-	-	0.3	0.4	0.8	2.9	1.2	6.8	10.6	12.4	7.6	2.6	1.3	1.6	3.2
C16	-	-	0.2	-	-	-	0.7	-	0.8	2.4	5.5	6.1	6.1	11.4	12.1	10.6	1.5	1.8	3.1
C17	-	-	-	-	-	-	-	-	-	1.0	-	0.8	1.5	2.1	-	-	0.2	0.2	0.5
C18	-	-	-	-	0.7	0.3	-	1.4	0.4	1.4	-	1.5	2.3	4.1	-	2.6	0.5	0.6	1.1
C19-C20	-	-	0.2	0.2	0.2	0.6	1.0	1.4	1.7	0.5	-	-	0.8	1.0	4.5	2.6	0.6	0.6	0.8
C21	-	-	-	0.2	-	-	-	0.4	-	0.5	0.6	0.8	-	-	-	-	0.1	0.1	0.4
C22	0.3	-	-	-	0.2	0.6	-	2.1	3.8	4.3	6.1	9.9	12.1	21.8	18.1	14.5	2.6	3.2	5.8
C23-C24	-	-	-	-	0.2	0.6	0.3	1.1	2.9	3.9	5.5	15.2	12.9	12.4	13.6	11.9	2.3	2.8	6.0
C25	-	-	-	-	-	-	-	0.4	0.8	1.4	1.8	3.0	3.0	4.1	4.5	4.0	0.6	0.8	1.6
C30-C31	-	-	-	0.2	-	-	-	-	-	0.5	0.6	-	0.8	-	1.5	2.6	0.2	0.2	0.3
C32	-	-	-	-	-	-	-	0.4	-	0.5	1.8	3.8	3.0	7.3	6.0	11.9	0.8	1.0	1.3
C33-C34	-	-	-	0.2	0.2	-	0.7	0.7	1.3	3.4	3.7	5.3	10.6	14.5	28.7	21.1	2.2	2.6	3.7
C37-C38	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	-	0.0	0.0	0.0
C40-C41	0.3	0.5	0.2	0.6	1.3	-	0.3	0.4	0.8	1.0	0.6	-	3.0	1.0	4.5	-	0.7	0.7	0.9
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	-	0.1	0.1	-
C44	0.3	-	-	-	-	0.6	-	1.1	-	1.0	0.6	1.5	3.0	2.1	1.5	2.6	0.5	0.6	1.1
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	-	-	0.2	0.6	0.4	-	-	0.4	1.3	1.0	-	1.5	-	1.0	3.0	2.6	0.5	0.5	0.7
C50	-	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-	-	0.0	0.0	0.1
C60	-	-	-	-	-	-	-	-	0.4	-	-	1.5	0.8	1.0	1.5	1.3	0.2	0.2	0.4
C61	-	-	-	-	-	-	-	0.4	-	0.5	-	4.6	8.3	10.4	22.7	13.2	1.3	1.6	1.8
C62	-	-	-	-	-	-	0.7	0.7	-	-	0.6	0.8	-	-	-	-	0.1	0.1	0.3
C63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	0.3	-	-	-	-	-	-	-	-	0.5	1.8	0.8	1.5	2.1	6.0	2.6	0.4	0.5	0.7
C65	-	-	-	-	-	-	-	-	-	-	0.6	-	-	-	-	-	0.0	0.0	0.1
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	0.2	-	-	0.4	0.4	1.0	3.1	1.5	5.3	3.1	6.0	4.0	0.7	0.8	1.7
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C70-C72	-	0.7	-	0.2	0.7	0.6	0.3	0.4	1.3	2.4	-	3.0	2.3	1.0	-	5.3	0.7	0.8	1.5
C73	-	-	-	-	-	-	-	-	-	-	0.6	-	-	-	-	1.3	0.0	0.1	0.1
C74	-	-	-	-	-	-	-	-	-	-	0.6	-	-	-	-	-	0.0	0.0	0.1
C81	-	-	-	-	-	-	0.3	-	0.8	-	-	-	-	-	-	-	0.1	0.1	0.2
C82-C85,C96	-	-	0.2	0.4	0.9	-	-	-	1.3	1.0	0.6	4.6	-	3.1	4.5	-	0.6	0.7	1.1
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	-	0.5	1.2	2.3	3.8	-	4.5	-	0.3	0.4	1.1
C91	0.3	0.2	0.2	-	0.2	0.3	0.7	-	0.4	0.5	-	0.8	0.8	-	-	-	0.3	0.3	0.4
C92-C94	-	-	-	-	0.2	0.6	0.3	-	0.8	1.4	1.2	-	-	-	-	1.3	0.3	0.3	0.6
C95	-	0.7	0.2	0.4	0.7	-	-	1.4	0.4	0.5	-	0.8	-	-	-	-	0.4	0.3	0.5
O&U	0.7	0.5	1.4	0.9	1.1	0.9	1.4	2.8	5.9	5.3	9.2	12.9	13.6	16.6	27.2	17.2	3.8	4.3	7.6
Total	2.4	2.7	2.8	3.9	8.2	8.4	13.4	32.3	49.1	74.7	92.8	152.5	148.4	191.9	244.8	180.9	36.9	43.6	84.0

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

Table 36: Average annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35-64 yrs) (TR) mortality rate per 100,000 population: 2018-2019 – Females Varanasi district

ICD 10	0_4	5_9	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	-	-	-	-	-	-	-	-	-	-	0.7	-	-	-	-	-	0.0	0.0	0.1
C01-02	-	-	-	-	-	-	0.3	0.7	-	0.5	3.3	1.5	0.8	3.5	6.7	1.4	0.5	0.6	1.1
C03-06	-	-	-	-	-	-	1.0	1.4	1.3	3.6	3.3	5.2	4.8	7.0	1-	9.5	1.4	1.6	3.1
C07-08	-	-	-	-	-	-	-	0.4	-	-	0.7	-	0.8	-	-	-	0.1	0.1	0.3
C09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	0.0	0.0	0.0
C10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	0.0	0.0	0.0
C15	-	-	-	-	-	-	0.3	-	0.4	0.5	2.0	0.7	2.4	3.5	3.3	1.4	0.4	0.5	0.9
C16	-	-	-	-	0.3	0.3	1.0	0.7	1.8	2.6	3.3	3.7	4.0	4.6	5.0	1.4	1.0	1.2	2.5
C17	-	-	-	-	-	-	-	-	-	0.5	-	-	-	-	-	-	0.0	0.0	0.1
C18	-	-	-	-	0.3	0.3	-	-	-	1.0	-	-	1.6	2.3	1.7	-	0.2	0.3	0.4
C19-20	-	-	-	-	0.3	0.3	0.7	0.4	-	0.5	2.0	0.7	-	-	-	-	0.3	0.3	0.6
C21	-	-	-	-	0.3	-	-	0.4	-	-	1.3	-	-	-	-	1.4	0.1	0.1	0.3
C22	-	-	-	-	0.5	0.3	0.3	1.1	1.8	4.6	8.7	8.2	5.6	4.6	1-	6.8	1.7	2.0	4.6
C23-24	-	-	-	-	0.5	0.3	1.7	5.3	10.1	15.9	18.7	16.3	20.8	34.8	3-	9.5	5.4	6.3	13.9
C25	-	-	-	-	-	-	0.3	0.4	-	1.5	2.7	0.7	2.4	5.8	1.7	1.4	0.5	0.6	1.2
C30-31	-	-	-	-	-	-	0.3	-	-	0.5	0.7	1.5	0.8	-	-	-	0.2	0.2	0.5
C32	-	-	-	-	-	-	-	-	-	-	0.7	-	-	1.2	-	1.4	0.1	0.1	0.1
C33-34	-	-	-	-	-	-	0.3	0.7	2.2	1.5	2.7	8.9	2.4	10.4	6.7	6.8	1.2	1.5	2.7
C37-38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	-	-	0.4	-	-	-	0.3	-	-	0.5	0.7	-	0.8	1.2	-	-	0.2	0.2	0.3
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	-	-	-	-	-	-	-	-	-	-	-	1.5	-	1.2	1.7	1.4	0.1	0.2	0.2
C45	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	-	-	0.0	0.0	0.1
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	0.4	-	-	0.2	-	-	-	0.4	-	-	0.7	0.7	-	1.2	-	1.4	0.2	0.2	0.3
C50	-	-	-	0.2	0.8	2.1	2.0	3.9	9.2	16.4	19.4	17.1	16.0	22.0	13.4	8.1	4.8	5.5	13.1
C51	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	0.0	0.0	0.0
C52	-	-	-	-	-	-	-	-	0.4	1.0	0.7	0.7	1.6	-	1.7	2.7	0.3	0.3	0.7
C53	-	-	-	-	0.3	0.6	0.7	1.4	4.8	8.2	12.0	21.5	15.2	13.9	28.4	16.2	3.7	4.4	9.5
C54	-	-	-	-	-	-	-	-	-	0.5	1.3	0.7	0.8	-	3.3	1.4	0.2	0.3	0.5
C55	-	-	-	-	-	-	-	-	-	0.5	0.7	-	0.8	1.2	-	-	0.1	0.1	0.3
C56	-	-	-	-	-	-	1.4	1.4	2.6	2.0	6.7	6.7	3.2	2.3	5.0	1.4	1.2	1.4	3.5
C57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	-	-	-	-
C58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	0.4	-	-	-	0.3	0.6	-	0.4	1.8	-	-	-	0.8	1.2	-	-	0.3	0.3	0.5
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	-	0.4	-	-	-	0.7	0.8	-	3.3	-	0.1	0.1	0.3
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	-	-	-
C70-72	1.2	-	-	-	-	0.6	-	0.4	-	1.0	1.3	2.2	2.4	3.5	-	2.7	0.5	0.7	1.1
C73	-	-	-	-	-	-	-	-	-	-	-	1.5	1.6	-	3.3	-	0.2	0.2	0.4
C74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0
C82-85,C96	-	-	-	0.4	-	-	-	-	0.4	0.5	0.7	3.0	-	1.2	-	-	0.3	0.3	0.7
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	-	-	0.7	0.7	-	-	-	-	0.1	0.1	0.2
C91	-	-	-	-	-	-	-	-	-	-	-	0.7	0.8	1.2	1.7	-	0.1	0.1	0.2
C92-94	-	-	-	-	0.5	-	0.3	0.7	0.9	0.5	2.0	0.7	1.6	-	1.7	-	0.4	0.4	1.0
C95	-	-	0.2	0.2	0.3	-	0.3	-	-	1.5	0.7	-	-	-	-	-	0.2	0.2	0.4
O&U	-	0.3	0.2	0.6	0.5	0.6	1.4	0.7	2.2	3.1	4.7	4.5	6.4	5.8	8.3	5.4	1.6	1.8	3.3
Total	2.1	0.3	0.9	1.6	4.9	6.4	13.0	21.0	39.9	69.0	102.8	111.3	99.3	135.6	148.6	83.8	27.9	32.3	68.9

* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

21. Paediatric cancer incidence tables as per ICCC-3 standard

Table 37: Number of cases in paediatric age-group, incidence rate per million population: 2018-2019 (Both sex)

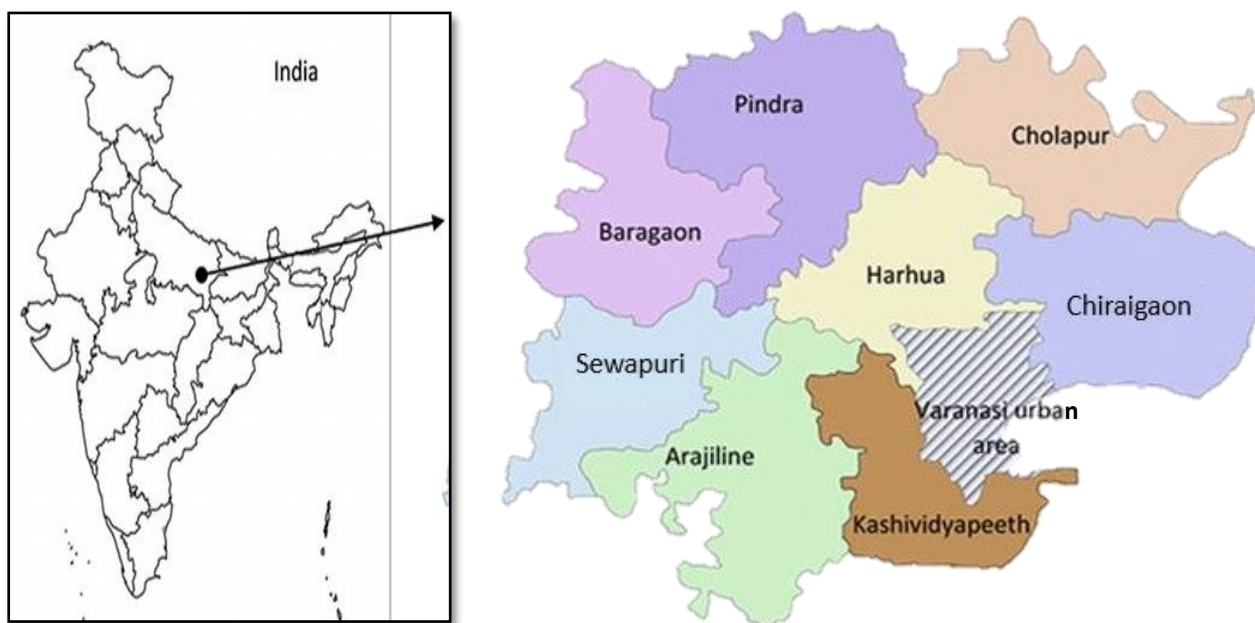
ICCC	Site	0-4	5-9	10-14	15-19	0-14	0-19	Percentage (0-14)		Percentage (0-19)		Age-specific rate per 1,000,000				AAR		Cumulative		MV % 0-19	DCO % 0-19
								All	Group	All	Group	0-4	5-9	10-14	15-19	0-14	0-19	0-14	0-19		
I	LEUKAEMIA	7	9	5	10	21	31	22.1	100.0	20.1	100.0	13.2	12.1	5.2	9.7	10.5	10.3	153	201	100	0.0
a.	Lymphoid	4	3	-	1	7	8	7.4	33.3	5.2	25.8	7.5	4.0	-	1.0	4.2	3.5	58	63	100	0.0
b.	Acute myeloid	3	1	2	1	6	7	6.3	28.6	4.5	22.6	5.6	1.3	2.1	1.0	3.2	2.7	45	50	100	0.0
c.	CMD	-	1	-	3	1	4	1.1	4.8	2.6	12.9	-	1.3	-	2.9	0.4	1.0	7	21	100	0.0
d.	MDS & other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e.	Unspecified	-	4	3	5	7	12	7.4	33.3	7.8	38.7	-	5.4	3.1	4.8	2.7	3.1	43	67	100	0.0
II	LYMPHOMA & RELATED	2	6	4	3	12	15	12.6	100.0	9.7	100.0	3.8	8.1	4.2	2.9	5.3	4.7	80	95	100	0.0
a.	Hodgkin	1	2	-	-	3	3	3.2	25.0	1.9	20.0	1.9	2.7	-	-	1.6	1.2	23	23	100	0.0
b.	Non-Hodgkin except BL	1	2	-	1	3	4	3.2	25.0	2.6	26.7	1.9	2.7	-	1.0	1.6	1.5	23	28	100	0.0
c.	Burkitt (BL)	-	1	2	-	3	3	3.2	25.0	1.9	20.0	-	1.3	2.1	-	1.0	0.8	17	17	100	0.0
d.	Lymphoreticular	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e.	Unspecified	-	1	2	2	3	5	3.2	25.0	3.2	33.3	0.0	1.3	2.1	1.9	1.0	1.2	17	27	100	0.0
III	CNS NEOPLASMS	2	3	2	5	7	12	7.4	100.0	7.8	100.0	3.8	4.0	2.1	4.8	3.4	3.7	50	74	75.0	8.3
a.	Ependymoma	-	2	-	1	2	3	2.1	28.6	1.9	25.0	-	2.7	-	1.0	0.9	0.9	13	18	100	0.0
b.	Astrocytoma	-	-	-	1	-	1	-	-	0.6	8.3	-	-	-	1.0	-	0.2	0	5	100	0.0
c.	CNS embryonal	1	-	1	-	2	2	2.1	28.6	1.3	16.7	1.9	-	1.0	-	1.0	0.8	15	15	100	0.0
d.	Other gliomas	1	1	-	1	2	3	2.1	28.6	1.9	25.0	1.9	1.3	-	1.0	1.2	1.1	16	21	100	0.0
e.	Other specified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
f.	Unspecified CNS	-	-	1	2	1	3	1.1	14.3	1.9	25.0	-	-	1.0	1.9	0.3	0.7	5	15	0.0	33.3
IV	NEUROBLASTOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
a.	(Ganglio)neuroblastoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Peripheral nervous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V	RETINOBLASTOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VI	RENAL TUMOURS	1	1	1	-	3	3	3.2	100.0	1.9	100.0	1.9	1.3	1.0	-	1.5	1.1	21	21	66.7	33.3
a.	Nephroblastoma	1	1	-	-	2	2	2.1	66.7	1.3	66.7	1.9	1.3	-	-	1.2	0.9	16	16	100	0.0
b.	Renal carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	Unspecified	-	-	1	-	1	1	1.1	33.3	0.6	33.3	-	-	1.0	-	0.3	0.2	5	5	0.0	100
VII	HEPATIC TUMOURS	1	-	-	1	1	2	1.1	100.0	1.3	100.0	1.9	-	-	1.0	0.7	0.8	9	14	100	0.0
a.	Hepatoblastoma	1	-	-	-	1	1	1.1	100.0	0.6	50.0	1.9	-	-	-	0.7	0.6	9	9	100	0.0
b.	Hepatic carcinoma	-	-	-	1	-	1	-	-	0.6	50.0	-	-	-	1.0	-	0.2	0	5	100	0.0
c.	Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIII	BONE TUMOURS	1	3	11	6	15	21	15.8	100.0	13.6	100.0	1.9	4.0	11.5	5.8	5.4	5.5	87	116	81.0	4.8
a.	Osteosarcoma	-	-	3	1	3	4	3.2	20.0	2.6	19.0	-	-	3.1	1.0	0.9	0.9	16	21	100	0.0
b.	Chondrosarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	Ewing & related	-	3	5	-	8	8	8.4	53.3	5.2	38.1	-	4.0	5.2	-	2.8	2.2	46	46	100	0.0
d.	Other specified	-	-	-	1	-	1	-	-	0.6	4.8	-	-	-	1.0	-	0.2	0	5	100	0.0
e.	Unspecified	1	-	3	4	4	8	4.2	26.7	5.2	38.1	1.9	-	3.1	3.9	1.6	2.1	25	44	50.0	12.5
IX	SOFT TISSUE SARCOMA	6	2	4	6	12	18	12.6	100.0	11.7	100.0	11.3	2.7	4.2	5.8	6.5	6.3	91	120	100	0.0
a.	Rhabdomyosarcoma	2	-	-	1	2	3	2.1	16.7	1.9	16.7	3.8	-	-	1.0	1.5	1.3	19	24	100	0.0
b.	Fibrosarcoma	-	1	1	-	2	2	2.1	16.7	1.3	11.1	-	1.3	1.0	-	0.7	0.6	12	12	100	0.0
c.	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d.	Other specified	3	1	2	3	6	9	6.3	50.0	5.8	50.0	5.6	1.3	2.1	2.9	3.2	3.2	45	60	100	0.0
e.	Unspecified	1	-	1	2	2	4	2.1	16.7	2.6	22.2	1.9	-	1.0	1.9	1.0	1.2	15	24	100	0.0
X	GERM CELL TUMOURS	1	1	2	5	4	9	4.2	100.0	5.8	100.0	1.9	1.3	2.1	4.8	1.8	2.5	27	51	77.8	0.0
a.	CNS germ cell	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Other extragonadal	-	1	-	1	1	2	1.1	25.0	1.3	22.2	-	1.3	-	1.0	0.4	0.6	7	12	100	0.0
c.	Gonadal germ cell	1	-	1	2	2	4	2.1	50.0	2.6	44.4	1.9	-	1.0	1.9	1.0	1.2	15	24	100	0.0
d.	Gonadal carcinoma	-	-	1	-	1	1	1.1	25.0	0.6	11.1	-	-	1.0	-	0.3	0.2	5	5	100	0.0
e.	Unspecified gonadal	-	-	-	2	-	2	-	-	1.3	22.2	-	-	-	1.9	-	0.4	0	10	0.0	0.0
XI	CARCINOMA & MELANOMA	-	1	1	8	2	10	2.1	100.0	6.5	100.0	-	1.3	1.0	7.7	0.7	2.3	12	51	100	0.0
a.	Adrenocortical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Thyroid	-	-	-	1	-	1	-	-	0.6	10.0	-	-	-	1.0	-	0.2	0	5	100	0.0
c.	Nasopharyngeal	-	-	-	1	-	1	-	-	0.6	10.0	-	-	-	1.0	-	0.2	0	5	100	0.0
d.	Melanoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e.	Skin carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
f.	Other & unspecified	-	1	1	6	2	8	2.1	100.0	5.2	80.0	-	1.3	1.0	5.8	0.7	1.9	12	41	100	0.0
XII	OTHER & UNSPECIFIED	3	5	10	15	18	33	18.9	100.0	21.4	100.0	5.6	6.7	10.5	14.5	7.4	9.0	114	187	12.1	54.5
a.	Other specified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Other unspecified	3	5	10	15	18	33	18.9	100.0	21.4	100.0	5.6	6.7	10.5	14.5	7.4	9.0	114	187	12.1	54.5
Total		24	31	40	59	95	154	100.0	100.0	100.0	100.0	45.1	41.8	41.9	57.0	43.1	46.3	645	930	74.7	13.6

Table 38: Number of cases in paediatric age-group, incidence rate per million population: 2018-2019 (By gender)

ICCC	Site	Males						Females											
		Number of cases in age groups						AAR per million		M/F Ratio		Number of cases in age groups						AAR per million	
		0-4	5-9	10-14	15-19	0-14	0-19	0-14	0-19	0-14	0-19	0-4	5-9	10-14	15-19	0-14	0-19	0-14	0-19
I	LEUKAEMIA	4	8	4	8	16	24	14.1	14.2	3.2	3.4	3	1	1	2	5	7	6.4	5.9
a.	Lymphoid	2	2	-	1	4	5	4.3	3.7	1.3	1.7	2	1	-	-	3	3	4.2	3.2
b.	Acute myeloid	2	1	2	-	5	5	4.6	3.6	5.0	2.5	1	-	-	1	1	2	1.6	1.7
c.	CMD	-	1	-	3	1	4	0.8	1.9	0.0	0.0	-	-	-	-	-	-	-	-
d.	MDS & other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e.	Unspecified	-	4	2	4	6	10	4.4	5.0	6.0	5.0	-	-	1	1	1	2	0.6	0.9
II	LYMPHOMA & RELATED	2	3	3	1	8	9	6.8	5.7	2.0	1.5	-	3	1	2	4	6	3.5	3.6
a.	Hodgkin	1	2	-	-	3	3	2.9	2.3	0.0	0.0	-	-	-	-	-	-	-	-
b.	Non-Hodgkin except BL	1	-	-	1	1	2	1.3	1.5	0.5	1.0	-	2	-	-	2	2	1.9	1.5
c.	Burkitt (BL)	-	1	2	-	3	3	2.0	1.5	0.0	0.0	-	-	-	-	-	-	-	-
d.	Lymphoreticular	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e.	Unspecified	-	-	1	-	1	1	0.6	0.5	0.5	0.3	-	1	1	2	2	4	1.6	2.1
III	CNS NEOPLASMS	1	2	2	3	5	8	4.1	4.4	2.5	2.0	1	1	-	2	2	4	2.6	2.9
a.	Ependymoma	-	1	-	1	1	2	0.8	1.0	1.0	2.0	-	1	-	-	1	1	1.0	0.7
b.	Astrocytoma	-	-	-	1	-	1	0.0	0.4	-	0.0	-	-	-	-	-	-	-	-
c.	CNS embryonal	1	-	1	-	2	2	1.9	1.5	0.0	0.0	-	-	-	-	-	-	-	-
d.	Other gliomas	-	1	-	-	1	1	0.8	0.6	1.0	0.5	1	-	-	1	1	2	1.6	1.7
e.	Other specified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
f.	Unspecified CNS	-	-	1	1	1	2	0.6	0.9	0.0	2.0	-	-	-	1	-	1	-	0.5
IV	NEUROBLASTOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
a.	(Ganglio)neuroblastoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Peripheral nervous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V	RETINOBLASTOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VI	RENAL TUMOURS	1	1	-	-	2	2	2.1	1.7	2.0	2.0	-	-	1	-	1	1	0.6	0.5
a.	Nephroblastoma	1	1	-	-	2	2	2.1	1.7	0.0	0.0	-	-	-	-	-	-	-	-
b.	Renal carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	Unspecified	-	-	-	-	-	-	-	-	0.0	0.0	-	-	1	-	1	1	0.6	0.5
VII	HEPATIC TUMOURS	1	-	-	-	1	1	1.3	1.0	0.0	1.0	-	-	-	1	-	1	-	0.5
a.	Hepatoblastoma	1	-	-	-	1	1	1.3	1.0	-	-	-	-	-	-	-	-	-	-
b.	Hepatic carcinoma	-	-	-	-	-	-	-	-	-	0.0	-	-	-	1	-	1	-	0.5
c.	Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIII	BONE TUMOURS	1	2	7	4	10	14	7.0	7.1	2.0	2.0	-	1	4	2	5	7	3.5	3.6
a.	Osteosarcoma	-	-	1	1	1	2	0.6	0.9	0.5	1.0	-	-	2	-	2	2	1.3	1.0
b.	Chondrosarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	Ewing & related	-	2	4	-	6	6	3.9	3.1	3.0	3.0	-	1	1	-	2	2	1.6	1.2
d.	Other specified	-	-	-	-	-	-	-	-	-	0.0	-	-	-	1	-	1	-	0.5
e.	Unspecified	1	-	2	3	3	6	2.5	3.2	3.0	3.0	-	-	1	1	1	2	0.6	0.9
IX	SOFT TISSUE SARCOMA	4	2	3	3	9	12	8.7	8.0	3.0	2.0	2	-	1	3	3	6	3.8	4.3
a.	Rhabdomyosarcoma	1	-	-	1	1	2	1.3	1.5	1.0	2.0	1	-	-	-	1	1	1.6	1.2
b.	Fibrosarcoma	-	1	-	-	1	1	0.8	0.6	1.0	1.0	-	-	1	-	1	1	0.6	0.5
c.	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d.	Other specified	3	1	2	2	6	8	6.0	5.5	0.0	8.0	-	-	-	1	-	1	-	0.5
e.	Unspecified	-	-	1	-	1	1	0.6	0.5	1.0	0.3	1	-	-	2	1	3	1.6	2.2
X	GERM CELL TUMOURS	1	1	-	1	2	3	2.1	2.1	1.0	0.5	-	-	2	4	2	6	1.3	2.8
a.	CNS germ cell	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Other extragonadal	-	1	-	1	1	2	0.8	1.0	0.0	60.0	-	-	-	-	-	-	-	-
c.	Gonadal germ cell	1	-	-	-	1	1	1.3	1.0	1.0	0.3	-	-	1	2	1	3	0.6	1.4
d.	Gonadal carcinoma	-	-	-	-	-	-	-	-	0.0	0.0	-	-	1	-	1	1	0.6	0.5
e.	Unspecified gonadal	-	-	-	-	-	-	-	-	-	0.0	-	-	-	2	-	2	-	0.9
XI	CARCINOMA & MELANOMA	-	1	-	6	1	7	0.8	3.1	1.0	2.3	-	-	1	2	1	3	0.6	1.4
a.	Adrenocortical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Thyroid	-	-	-	-	-	-	-	-	0.0	0.0	-	-	-	1	-	1	-	0.5
c.	Nasopharyngeal	-	-	-	-	-	-	-	-	0.0	0.0	-	-	-	1	-	1	-	0.5
d.	Melanoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e.	Skin carcinoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
f.	Other & unspecified	-	1	-	6	1	7	0.8	3.1	1.0	7.0	-	-	1	-	1	1	0.6	0.5
XII	OTHER & UNSPECIFIED	3	4	9	9	16	25	12.5	13.4	8.0	3.1	-	1	1	6	2	8	1.6	4.0
a.	Other specified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b.	Other unspecified	3	4	9	9	16	25	12.5	13.4	8.0	3.1	-	1	1	6	2	8	1.6	4.0
Total		18	24	28	35	70	105	59.6	60.7	2.8	2.1	6	7	12	24	25	49	23.9	29.5

22. Village-wise incidence and mortality cases: 2017-2019

We are presenting village-wise incidence and mortality cases registered in the year 2018-2019.



**Cancer incidence cases and mortality cases: Varanasi district (2017-2019)
(Urban and rural area)**

Block	Incidence			Mortality		
	Male	Female	Total	Male	Female	Total
Varanasi Urban Area*	1901	1393	3294	842	524	1366
Arajiline	239	219	458	164	157	321
Baragaon	211	170	381	139	91	230
Chiragaon	189	176	365	126	103	229
Chhapra	234	189	423	143	106	249
Harhua	209	170	379	139	96	235
Kashividyaapeeth	302	227	529	176	119	295
Pindra	266	193	459	155	117	272
Sewapuri	181	166	347	130	104	234
Total	3732	2903	6635	2014	1417	3431

* Including new census town

Cancer incidence cases and mortality cases: Varanasi urban area (2017-2019)

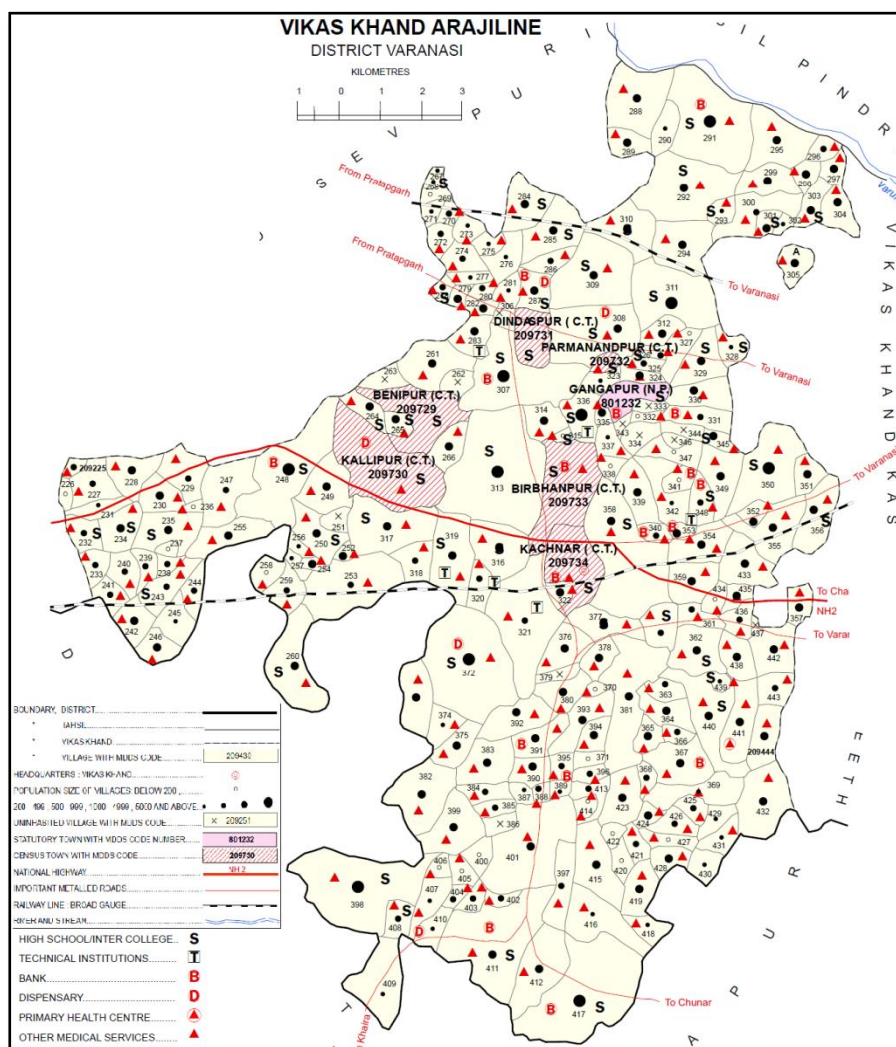
Sr. No.	Urban area	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	Akaga Ganj	2	1	3	0	1	1
2	Aktha	22	7	29	9	7	16
3	Alaipura	10	1	11	0	0	0
4	Ashapur	10	11	21	5	2	7
5	Assi Ghat	0	1	1	0	0	0
6	Bagahara	2	0	2	2	0	2
7	Baluwa Bir	11	3	14	6	2	8
8	Bandhuk Kachhi Bag	10	3	13	6	1	7
9	Bangali Tola	18	5	23	11	1	12
10	Barjardiha	42	17	59	11	5	16
11	Benia	12	6	18	6	2	8
12	Bhadani	6	4	10	3	4	7
13	Bhelupur	51	42	93	24	15	39
14	Bhoot Bhairav	2	2	4	0	0	0
15	Bridopur	13	14	27	9	11	20
16	Chatin Pura	10	3	13	4	3	7
17	Chetganj	28	23	51	10	9	19
18	Chitapur	10	14	24	7	7	14
19	Choti Piyari	16	6	22	5	2	7
20	Chowka Ghat	24	23	47	15	7	22
21	Daniyalpur	2	4	6	1	2	3
22	Daranagar	15	9	24	8	4	12
23	Dasaswamedh	28	28	56	13	11	24
24	Dedhori Mahaal	36	17	53	14	7	21
25	Deen Dayal Pur	0	0	0	1	0	1
26	Dhup Chandi	11	7	18	5	2	7
27	Eswar Gangi	9	10	19	4	3	7
28	Gola Dina Nath	29	21	50	9	6	15
29	Graghwasi Tola	16	6	22	5	3	8
30	Habibpur	7	1	8	2	0	2
31	Harha	13	4	17	9	2	11
32	Hukulganj	17	12	29	9	7	16
33	Indrapur	2	5	7	2	1	3
34	Jagambadi	1	8	9	1	3	4
35	Jagatganj	26	18	44	13	6	19
36	Jaitpura	82	34	116	37	10	47
37	Jalalipur	31	7	38	12	4	16
38	Jmaludinpur	3	0	3	0	0	0
39	Jolha	2	1	3	0	1	1
40	Kaal Bharav	25	20	45	10	5	15
41	Kahjuri	25	15	40	11	3	14

Sr. No.	Urban area	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
42	Kajipur	4	6	10	2	2	4
43	Kajisadulla Pura	7	4	11	2	0	2
44	Kakarmatta	7	9	16	4	4	8
45	Kamaccha	8	5	13	5	3	8
46	Kamal Pura	5	5	10	2	1	3
47	Kamalgarha	5	1	6	5	1	6
48	Kameshwar Mahadev	4	2	6	3	1	4
49	Kashipur	4	0	4	2	1	3
50	Katehar	7	2	9	5	2	7
51	Katuwa Pura	5	2	7	2	1	3
52	Khojwa	39	38	77	17	14	31
53	Konia	15	9	24	4	5	9
54	Lahang Pura	12	2	14	4	0	4
55	Lahartara	30	38	68	17	10	27
56	Lallapur Kala	0	1	1	0	0	0
57	Lallapura Khurd	22	9	31	4	6	10
58	Lanka	12	14	26	5	5	10
59	Laxa	1	0	1	0	0	0
60	Lohatia	2	1	3	1	1	2
61	Lohta(Kvp)	16	12	28	4	5	9
62	Loko Chatipur	22	15	37	7	8	15
63	Luxa	17	17	34	12	6	18
64	Madan Pura	13	6	19	6	1	7
65	Madhmaishewar	3	2	5	0	1	1
66	Maidagin	10	5	15	5	2	7
67	Maruadih	18	14	32	8	3	11
68	Maruadih Railway Settlement(ITS)	10	3	13	4	0	4
69	Mawia	1	0	1	1	0	1
70	Nadesar	37	28	65	22	13	35
71	Nagwa	26	29	55	11	10	21
72	Nai Basti	15	10	25	10	4	14
73	Naria	17	22	39	4	11	15
74	Nawab Ganj	6	6	12	2	0	2
75	Nawapura	11	9	20	6	5	11
76	Newada	10	7	17	5	4	9
77	Omkaleswar	5	4	9	4	0	4
78	Pahriya	38	20	58	20	7	27
79	Pan Dariba	2	4	6	2	0	2
80	Pandey Havali	7	3	10	1	2	3
81	Pandeypur	65	55	120	30	22	52
82	Pathani Tola	5	4	9	1	2	3
83	Peayarikala	8	6	14	3	1	4
84	Prahalad Ghat	6	13	19	2	5	7

Sr. No.	Urban Area	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
85	Raj Mandir	3	5	8	1	2	3
86	Raja Bazaar	6	0	6	3	0	3
87	Rajghat	22	14	36	8	5	13
88	Ramapura	6	3	9	3	1	4
89	Ramerapur	3	0	3	2	0	2
90	Ramnagar	61	35	96	31	15	46
91	Ranipur	3	2	5	4	1	5
92	Rasulpura	7	2	9	4	1	5
93	Rawari Talab	6	3	9	1	0	1
94	Salempura	2	1	3	1	0	1
95	Sarai Growardhan	2	3	5	2	0	2
96	Sarai Surjan	5	1	6	4	1	5
97	Saraya	17	11	28	8	4	12
98	Sarnath	35	30	65	18	15	33
99	Sarsauli	11	9	20	5	3	8
100	Shivala	28	16	44	15	5	20
101	Shivpur	82	75	157	34	24	58
102	Shivpurwa	15	14	29	5	4	9
103	Sigra	54	52	106	26	21	47
104	Sikaraul	20	24	44	8	8	16
105	Sunderpur	34	35	69	16	12	28
106	Tarna	24	17	41	12	3	15
107	Tulsi Pur	25	24	49	10	8	18
108	Varanasi	16	15	31	5	2	7
109	Varanasi (Cantoment Board)	2	2	4	1	1	2
110	Vinayka	1	1	2	0	0	0
New census town							
111	Amara Khaira Chak (Kashividyapeeth)	3	3	6	2	0	2
112	Asapur (Kashividyapeeth)	1	2	3	0	1	1
113	Baragaon (City)	1	4	5	0	2	2
114	Benipur (Arajiline)	2	2	4	2	1	3
115	Bhagwanpur (Kashividyapeeth)	9	10	19	2	3	5
116	Birbhanpur (Arajiline)	3	5	8	0	2	2
117	Chandpur (Kashividyapeeth)	3	3	6	1	2	3
118	Chhitauni (Kashividyapeeth)	3	0	3	2	0	2
119	Chhittipur (Kashividyapeeth)	31	22	53	11	8	19
120	Dindaspur(Arajiline)	4	1	5	3	1	4
121	Gangapur (NP, Arajiline)	4	5	9	2	3	5
122	Gaurakala (Chiraigaon)	0	2	2	0	1	1
123	Harpalpur (Kashividyapeeth)	6	2	8	2	2	4
124	Jalal Patti (Kashividyapeeth)	1	0	1	1	0	1

Sr. No.	Urban Area	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
125	Kachnar (Arajiline)	4	1	5	1	1	2
126	Kakarmatta (Kashividyapeeth)	2	2	4	2	0	2
127	Kallipur (Arajiline)	3	5	8	2	5	7
128	Kandawa (Kashividyapeeth)	15	14	29	3	4	7
129	Kesaripur (Kashividyapeeth)	1	1	2	0	1	1
130	Kotwa (Chiraigaon)	1	1	2	0	1	1
131	Kotwa (Kashividyapeeth)	11	4	15	3	2	5
132	Lehrupur (Chiraigaon)	3	1	4	2	0	2
133	Parmanandapur (Arajiline)	4	1	5	0	0	0
134	Phulwariya (Kashividyapeeth)	20	19	39	7	7	14
135	Salarpur (Chiraigaon)	8	3	11	1	2	3
136	Sarai Mohana (Chirai Kashividyapeeth)	3	2	5	0	1	1
137	Shivdashpur (Kashividyapeeth)	11	10	21	5	1	6
138	Sir Govardhanpur (Kashividyapeeth)	3	7	10	1	3	4
139	Susuwahi (Kashividyapeeth)	10	6	16	6	3	9
140	Suzabad (Kashividyapeeth)	3	4	7	1	1	2
141	Umaraha (Chiraigaon)	2	2	4	0	2	2
Total		1901	1393	3294	842	524	1366

Cancer incidence cases and mortality cases: Arajiline, Varanasi district (2017-2019)



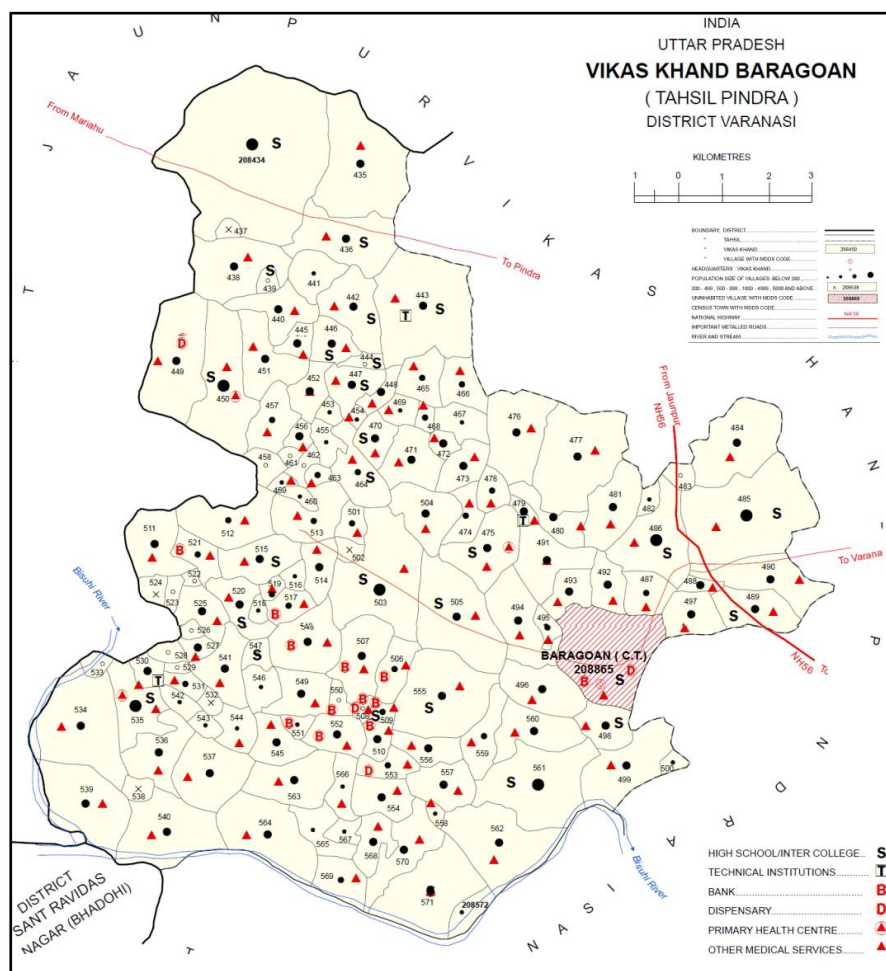
Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	Appi	1	0	1	1	0	1
2	Arajiline	0	1	1	0	0	0
3	Aswari	2	8	10	1	5	6
4	Ayodhyapur	3	2	5	3	1	4
5	Babhaniyav	1	3	4	1	2	3
6	Badher	1	1	2	2	1	3
7	Badipur	1	2	3	1	2	3
8	Bahadurpur	1	0	1	1	0	1
9	Baherwa	3	0	3	3	0	3
10	Bairwan	3	2	5	4	3	7
11	Bangalipur	1	1	2	2	0	2
12	Bansipur	1	1	2	0	1	1
13	Barhaini Kala	2	1	3	1	0	1
14	Basant Ptii	2	1	3	1	0	1

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
15	Basantpur	1	0	1	1	0	1
16	Belauri	3	1	4	0	1	1
17	Bhadarasi	1	0	1	0	0	0
18	Bhanjanpur	0	1	1	0	0	0
19	Bharaon	2	0	2	0	0	0
20	Bhareha	0	0	0	0	1	1
21	Bharehara	0	1	1	0	1	1
22	Bhatshar	1	4	5	1	1	2
23	Bhaudpur	0	1	1	0	0	0
24	Bhawanipur	2	1	3	3	1	4
25	Bhikhampur	5	0	5	5	0	5
26	Bhikharipur	4	1	5	0	1	1
27	Bhimchandi	1	1	2	2	1	3
28	Bhojubeer	1	0	1	0	0	0
29	Bhuwalpur	1	0	1	1	0	1
30	Bibhauri	1	0	1	1	0	1
31	Birbalpur	1	1	2	1	0	1
32	Birsinghpur	1	1	2	0	0	0
33	Biththalpur	0	2	2	0	2	2
34	Burapur	1	1	2	1	0	1
35	Chakarpanpur	0	2	2	0	1	1
36	Chandapur	1	4	5	1	5	6
37	Chaukhandi	1	3	4	1	3	4
38	Coraut	2	1	3	1	0	1
39	Daghariya	0	4	4	0	4	4
40	Darekhu	4	1	5	2	2	4
41	Dayapur	1	3	4	0	2	2
42	Deuara	3	0	3	3	0	3
43	Dhadhorpur	0	3	3	0	2	2
44	Dhanapur	1	1	2	0	0	0
45	Dipapur	0	2	2	0	2	2
46	Gaharpur	2	0	2	0	0	0
47	Gajapur	2	0	2	1	0	1
48	Gajari	1	7	8	1	2	3
49	Ganeshpur	2	1	3	2	1	3
50	Gangpur	1	0	1	0	0	0
51	Gaur Madhukar Shahpur	10	1	11	3	0	3
52	Ghamahapur	2	3	5	1	1	2
53	Ghamhapur	1	0	1	0	0	0
54	Gobindpur	1	0	1	0	0	0
55	Gora	1	2	3	1	2	3
56	Govindpur	1	1	2	0	0	0
57	Gurudaspur	3	0	3	2	0	2
58	Hardaspur	0	1	1	0	0	0
59	Hardattpur	3	3	6	2	3	5

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
60	Harnampur	0	1	1	0	1	1
61	Harpur	2	1	3	1	0	1
62	Harsos	5	4	9	6	2	8
63	Jaddupur	1	0	1	1	0	1
64	Jagardeopur	0	1	1	1	0	1
65	Jagatpur	5	5	10	4	3	7
66	Jakhini	1	3	4	0	3	3
67	Jalalpur	1	0	1	1	0	1
68	Jamunipur	2	0	2	0	0	0
69	Jansa	7	4	11	8	5	13
70	Jayapur	2	2	4	1	1	2
71	Jeetapur	1	0	1	2	0	2
72	Jhabra	1	0	1	1	0	1
73	Kachhariya	0	1	1	0	1	1
74	Kalyanpur	1	0	1	1	0	1
75	Kamalpur	0	1	1	0	1	1
76	Kaneri	2	2	4	2	3	5
77	Kanthipur	2	1	3	1	1	2
78	Kapar Phorwa	5	4	9	3	3	6
79	Karnadadi	2	2	4	3	1	4
80	Kashipur	4	2	6	2	1	3
81	Khajuri	2	3	5	3	1	4
82	Kharagraipur	0	1	1	0	1	1
83	Kharaura	0	0	0	0	1	1
84	Khewali	4	1	5	2	2	4
85	Khewasipur	1	0	1	0	0	0
86	Khochwa	2	3	5	0	2	2
87	Koila	1	0	1	1	0	1
88	Kundriya	2	0	2	2	1	3
89	Kurauna	1	1	2	2	0	2
90	Kurauti	2	2	4	1	1	2
91	Kursato	1	0	1	0	0	0
92	Lachapur	1	2	3	1	2	3
93	Lallapur	1	1	2	1	1	2
94	Laskariya	0	1	1	0	0	0
95	Laxirampur	0	1	1	0	1	1
96	Loharapur	2	1	3	2	0	2
97	Madhukar Shahpur	1	1	2	1	1	2
98	Mahaban	0	1	1	0	2	2
99	Mahgoan	3	2	5	2	2	4
100	Mahmdpur	2	1	3	2	0	2
101	Maniyari Pur(Darerhu)	4	4	8	2	2	4
102	Marui	1	2	3	0	2	2
103	Mehadiganj	9	4	13	4	4	8
104	Milki Chack	2	0	2	2	0	2

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
105	Milkipur	0	1	1	0	0	0
106	Moglabir	2	0	2	0	0	0
107	Mubarakpur	2	2	4	1	2	3
108	Mungawar	1	2	3	1	3	4
109	Nagepur	2	3	5	0	3	3
110	Naraicha	0	2	2	0	1	1
111	Narottampur	2	0	2	1	0	1
112	Narsara	5	0	5	3	0	3
113	Nayapura	1	0	1	0	0	0
114	Nidaura	1	0	1	0	0	0
115	Niyaisipur	1	0	1	1	0	1
116	Pachai(No1)	0	1	1	0	1	1
117	Paidegaon	0	2	2	0	2	2
118	Paniyara	1	1	2	0	0	0
119	Parampur	2	6	8	1	4	5
120	Parjanpur	1	2	3	1	1	2
121	Parsuchak	1	1	2	1	2	3
122	Pausi	0	1	1	0	1	1
123	Payagpur	1	0	1	0	0	0
124	Pilori	1	2	3	1	1	2
125	Pratappur	5	5	10	5	3	8
126	Rajpur	1	0	1	0	0	0
127	Rakhauna	3	2	5	3	2	5
128	Ramaipur	0	2	2	0	0	0
129	Rampur	0	0	0	0	1	1
130	Ramraypur	0	2	2	0	1	1
131	Ramsinghpur	1	1	2	0	1	1
132	Ranibazar	5	3	8	3	2	5
133	Rupapur	1	0	1	1	0	1
134	Sahansapur	3	8	11	2	3	5
135	Sahawabad	0	1	1	0	1	1
136	Sajoi	4	4	8	4	3	7
137	Saraimohan	2	2	4	0	2	2
138	Sarauni	1	4	5	1	4	5
139	Serwanpur	1	1	2	0	1	1
140	Sheorampur	2	2	4	2	2	4
141	Shihorwa	2	0	2	1	0	1
142	Singhai	1	1	2	1	1	2
143	Sinhorwa	1	2	3	2	1	3
144	Sirsa	1	1	2	1	0	1
145	Suichak	3	0	3	2	0	2
146	Tarsawn	0	1	1	0	1	1
147	Todarpur	1	2	3	1	1	2
148	Tohaphapur	0	1	1	0	0	0
Total		239	219	458	164	157	321

Cancer incidence cases and mortality cases: Baragaon, Varanasi district (2017-2019)

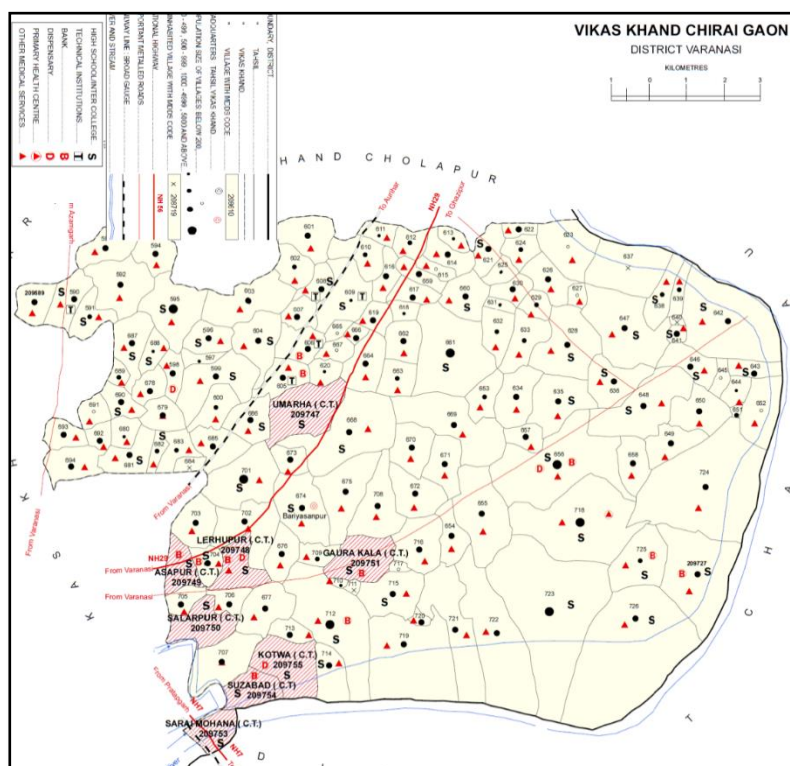


Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	Akorha	2	0	2	3	0	3
2	Aneai	4	3	7	3	3	6
3	Ashwari	3	2	5	2	2	4
4	Bachaura	0	1	1	0	0	0
5	Bahutara	2	1	3	1	0	1
6	Balrampur	2	5	7	1	3	4
7	Balua	1	4	5	2	3	5
8	Barai	3	4	7	2	1	3
9	Barhi Newada	3	4	7	3	1	4
10	Barhikala	3	3	6	2	1	3
11	Barzi	3	2	5	2	0	2
12	Basni	13	8	21	7	5	12
13	Bauliya	1	0	1	1	1	2
14	Belawa	3	9	12	0	6	6
15	Bhagwanpur	1	0	1	0	0	0
16	Bharthara	2	1	3	2	0	2

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
17	Bharthipur	0	1	1	0	1	1
18	Bhawanipur	0	0	0	1	0	1
19	Bhiti	0	1	1	0	0	0
20	Bikapur	2	0	2	0	0	0
21	Biraon	2	0	2	1	1	2
22	Bishwanathpur	0	1	1	0	0	0
23	Chak Barai	0	1	1	0	2	2
24	Chak Kharawan	4	1	5	3	1	4
25	Changwar	3	3	6	1	2	3
26	Chaturpur	1	0	1	0	0	0
27	Chilbila	4	3	7	3	2	5
28	Dallipur	3	1	4	2	1	3
29	Dandupur	3	3	6	2	2	4
30	Darapur	1	0	1	1	0	1
31	Debathua	4	1	5	2	0	2
32	Devchandpur	3	1	4	2	0	2
33	Dhanrajaipur	2	1	3	2	1	3
34	Dhora	0	0	0	1	0	1
35	Dhoraipur	0	2	2	0	1	1
36	Eshipur	1	1	2	0	0	0
37	Fatehpur	3	3	6	2	2	4
38	Gajapur	0	2	2	0	1	1
39	Gang Khurd	1	0	1	0	0	0
40	Gangkala	3	4	7	2	1	3
41	Ghamhapur	2	0	2	3	0	3
42	Harehu	1	0	1	0	0	0
43	Harinathpur	3	3	6	1	1	2
44	Hasanpur	4	2	6	1	2	3
45	Isarwarpur	0	1	1	0	1	1
46	Kaithauli	1	5	6	2	2	4
47	Kaniyar	12	5	17	7	3	10
48	Karampur	0	1	1	0	0	0
49	Kathiraon	6	9	15	9	1	10
50	Kavirampur	4	1	5	4	0	4
51	Kharariya Taluka Birawn	1	0	1	1	0	1
52	Kharawan	7	2	9	3	1	4
53	Khariya Khas	5	1	6	3	0	3
54	Khataura	2	1	3	1	1	2
55	Koailar	3	0	3	0	0	0
56	Kodai	2	2	4	1	1	2
57	Kumbhapur	3	3	6	4	0	4
58	Kuri	7	2	9	4	2	6
59	Kuru	1	5	6	3	2	5
60	Kushmara	2	1	3	1	1	2

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
61	Kuwar	3	4	7	2	1	3
62	Lakhmipur	2	1	3	2	1	3
63	Madhumakhiya	2	2	4	0	2	2
64	Mahimapur	1	3	4	1	2	3
65	Mahuari	0	1	1	0	0	0
66	Majhgawan Kala	5	2	7	4	2	6
67	Malhath	7	1	8	4	0	4
68	Nakati	1	0	1	1	0	1
69	Newada	1	2	3	0	0	0
70	Nimaich	3	1	4	2	0	2
71	Nindanpur	0	3	3	0	3	3
72	Noniyapur	1	0	1	1	0	1
73	Pachrasi	1	1	2	0	1	1
74	Patere	0	1	1	0	0	0
75	Phulwariya	1	1	2	0	1	1
76	Piyarpur	0	1	1	0	1	1
77	Pura Raghunathpur	6	2	8	4	2	6
78	Ramnagar	1	1	2	0	0	0
79	Rampur	2	1	3	1	0	1
80	Rasulha	4	1	5	1	2	3
81	Rasulpur	1	0	1	0	0	0
82	Ratanpur	1	3	4	1	1	2
83	Sagunha	2	2	4	2	2	4
84	Sarvipur	2	1	3	2	2	4
85	Shaipur	0	0	0	1	2	3
86	Sharawa	1	1	2	0	1	1
87	Shekhanipur	0	2	2	0	1	1
88	Shishwa	3	3	6	3	2	5
89	Siswa	1	0	1	1	0	1
90	Sonpurwa	1	2	3	0	0	0
91	Tari	2	1	3	1	0	1
92	Tarsara	2	4	6	0	0	0
93	Telari	0	1	1	0	0	0
94	Tilawar	2	0	2	1	0	1
Total		211	170	381	139	91	230

Cancer incidence cases and mortality cases: Chiraigaon, Varanasi district (2017-2019)

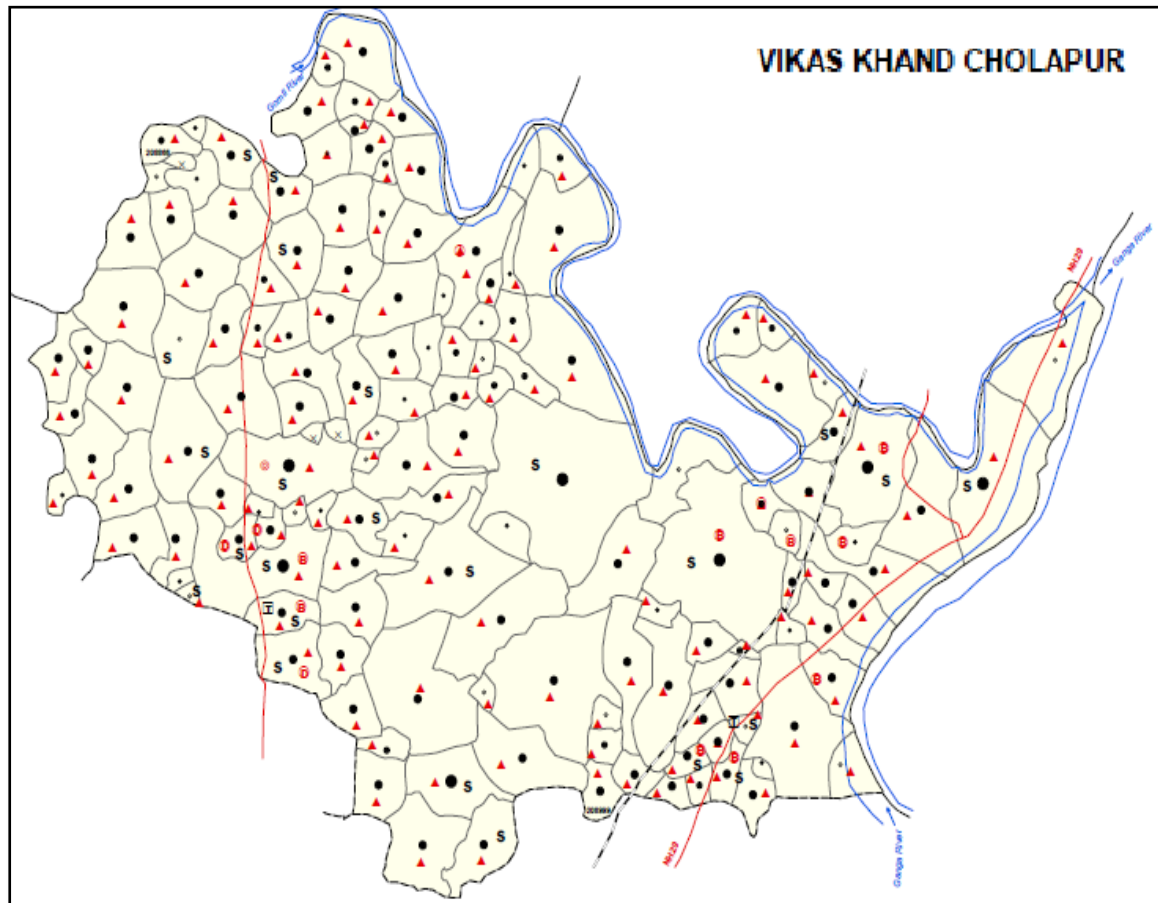


Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	Airla	0	1	1	0	1	1
2	Allopur	4	0	4	2	0	2
3	Amar Patti	0	1	1	0	1	1
4	Amauli	1	5	6	1	3	4
5	Amwa	1	0	1	1	0	1
6	Araji Newada	0	0	0	1	0	1
7	Babhanpura	2	2	4	1	1	2
8	Bankat	1	2	3	2	2	4
9	Barai	4	3	7	4	3	7
10	Bariyasanpur	9	6	15	6	5	11
11	Bartharra Gangwar	0	1	1	0	0	0
12	Bharthara Kala	1	3	4	0	2	2
13	Bhisori	0	1	1	0	0	0
14	Bisunpura	1	0	1	1	0	1
15	Chadpur	1	2	3	1	3	4
16	Chamauli	7	4	11	4	1	5
17	Chhahi	0	1	1	0	1	1
18	Chhitauni	2	1	3	2	0	2
19	Chiraigaon	11	6	17	10	3	13
20	Chukha	2	1	3	2	1	3
21	Chunarpur	1	0	1	0	0	0

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
22	Damodarpur	0	1	1	0	0	0
23	Daniyalpur	3	1	4	2	1	3
24	Dewariya	1	0	1	0	0	0
25	Dhananjaipur	0	3	3	0	2	2
26	Dhobahi	1	2	3	0	1	1
27	Dinapur	1	2	3	1	1	2
28	Dubkiya	4	1	5	2	0	2
29	Faridpur	2	4	6	1	3	4
30	Foolpur	2	1	3	1	0	1
31	Gangapur	3	0	3	2	2	4
32	Gaura Khurd	1	1	2	1	1	2
33	Girdharpur	1	0	1	1	0	1
34	Gobrha	0	1	1	0	0	0
35	Goithaha	3	1	4	2	2	4
36	Goppur	5	3	8	1	1	2
37	Hiramanpur	1	2	3	1	2	3
38	Hirdahipur	2	3	5	2	1	3
39	Hasanpur	0	0	0	0	1	1
40	Imiliya	1	0	1	1	0	1
41	Jairampur	2	0	2	1	1	2
42	Jalhupur	4	5	9	6	1	7
43	Jhanjhupur (Ghaghupur)	0	2	2	0	2	2
44	Kadipur Khurd	1	1	2	2	0	2
45	Katesar Kala	4	0	4	2	0	2
46	Khajuhi	1	0	1	1	0	1
47	Khalispur	3	3	6	1	1	2
48	Khanpur	0	1	1	0	0	0
49	Kharagaipur	0	2	2	0	3	3
50	Khetalpur	1	3	4	1	0	1
51	Khuthan	1	1	2	2	1	3
52	Kodopur	2	2	4	1	1	2
53	Kukraha	1	3	4	0	2	2
54	Looth Kala	0	1	1	0	0	0
55	Looth Khurd	0	0	0	0	1	1
56	Marhni	1	1	2	0	1	1
57	Milkapur	0	1	1	0	0	0
58	Misripura	2	0	2	2	1	3
59	Mokalpur	1	0	1	1	0	1
60	Muridpur	1	1	2	1	1	2
61	Mustafabad	7	3	10	2	2	4
62	Narayanpur	7	4	11	5	2	7
63	Narpatpur	3	1	4	3	0	3
64	Newada	0	4	4	0	1	1
65	Pacharon	5	1	6	2	1	3

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
66	Pahriya	0	1	1	1	0	1
67	Panihari	0	3	3	0	2	2
68	Paranapur	0	0	0	0	1	1
69	Parwatpur	3	0	3	1	0	1
70	Paterwa	2	3	5	1	2	3
71	Piyri	2	3	5	2	0	2
72	Prahladpur	2	0	2	0	1	1
73	Puran Patti	0	1	1	1	0	1
74	Raghunathpur	1	1	2	0	0	0
75	Raimala	1	0	1	0	0	0
76	Raipura	1	1	2	1	0	1
77	Rajapur	1	1	2	0	0	0
78	Rajnahiya	2	1	3	2	0	2
79	Ramagharwan	1	4	5	1	1	2
80	Ramchandipur	3	0	3	0	0	0
81	Ramna	3	1	4	3	1	4
82	Rampur	1	1	2	0	0	0
83	Rasulgarh	8	7	15	3	0	3
84	Rustampur	2	4	6	0	1	1
85	Sandaha	1	0	1	1	1	2
86	Sapsaul	2	3	5	1	2	3
87	Saraiya li	1	1	2	1	0	1
88	Sathawan	2	2	4	2	1	3
89	Sehwar	1	0	1	1	0	1
90	Shankarpur	2	3	5	4	0	4
91	Sheodas Uparwar	3	3	6	1	1	2
92	Shivbon	1	1	2	1	1	2
93	Singhpur	2	1	3	2	2	4
94	Sonbarsa	2	2	4	0	1	1
95	Srithi	1	5	6	0	6	6
96	Sultanpur	2	3	5	0	2	2
97	Taraya	1	1	2	1	0	1
98	Tatepur	1	2	3	0	2	2
99	Tilamapur	1	4	5	2	2	4
100	Tofapur	2	4	6	0	3	3
101	Ukthi	4	2	6	3	2	5
102	Vikapur	1	1	2	0	1	1
103	Vyaspur	0	0	0	1	0	1
Total		189	176	365	126	103	229

Cancer incidence cases and mortality cases: Cholapur, Varanasi district (2017-2019)



Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	Ajawan	2	1	3	2	0	2
2	Azgara Khas	6	7	13	4	3	7
3	Babatpur	1	2	3	0	0	0
4	Bahadurpur	4	2	6	4	1	5
5	Bahuawn	1	0	1	0	0	0
6	Bantari	1	1	2	0	0	0
7	Barthara Khurd	4	4	8	0	1	1
8	Barthauli	0	1	1	0	0	0
9	Barzi	1	1	2	2	1	3
10	Baviyaon	1	1	2	2	2	4
11	Bela	5	3	8	3	3	6
12	Benipur Kala	1	1	2	0	1	1
13	Bhabhiyar	0	2	2	0	1	1
14	Bhadwan	2	2	4	1	0	1
15	Bhagwanpur Khurd	2	0	2	1	0	1
16	Bhandaha Kala	1	1	2	1	1	2
17	Bharatpur	1	1	2	1	1	2

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
18	Bhawanipur	0	2	2	1	0	1
19	Bhidur	2	0	2	1	0	1
20	Chahi	1	0	1	0	0	0
21	Chak Dagrha	0	1	1	0	0	0
22	Chandrawati	2	4	6	1	2	3
23	Chaubepur Kala	6	5	11	4	4	8
24	Chaubepur Khurd	1	2	3	0	1	1
25	Chhitampur	1	2	3	1	1	2
26	Cholapur	10	4	14	6	1	7
27	Daudpur	1	0	1	1	0	1
28	Deipur	0	2	2	0	1	1
29	Demrupur	1	0	1	1	0	1
30	Deorai	0	2	2	0	0	0
31	Devnandpur	0	1	1	0	0	0
32	Dhakhawa	0	0	0	0	2	2
33	Dharampur	0	1	1	0	0	0
34	Dharsauna	9	6	15	6	2	8
35	Dhaurhara	9	11	20	4	9	13
36	Dherahi	1	0	1	1	0	1
37	Duduhan	2	1	3	1	1	2
38	Dulhanpur	1	0	1	0	0	0
39	Garsara	3	2	5	1	0	1
40	Garthauli	6	2	8	4	0	4
41	Gaurapurwar	3	0	3	3	0	3
42	Gola	4	1	5	2	0	2
43	Gosaipur	1	2	3	0	1	1
44	Gosaipur Pathkhuli	1	0	1	1	0	1
45	Hajipur	1	2	3	1	0	1
46	Handiyadih	1	0	1	1	1	2
47	Haridasipur	1	2	3	0	0	0
48	Hathiyar Kala	4	1	5	2	1	3
49	Hathiyar Khurd	0	1	1	0	1	1
50	Jagdeeshpur	5	4	9	2	2	4
51	Jariyari	1	1	2	0	0	0
52	Jugar Patti	1	1	2	1	0	1
53	Kadipur	6	4	10	5	0	5
54	Kaithi	3	4	7	1	4	5
55	Kaithor	0	1	1	0	0	0
56	Kapsa	2	1	3	0	1	1
57	Karma	1	0	1	1	0	1
58	Katari	4	2	6	2	3	5
59	Kauwapur	0	1	1	0	1	1
60	Khanuan	2	1	3	1	0	1
61	Khardaha	2	4	6	2	2	4

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
62	Khutha	1	0	1	1	0	1
63	Koilo	1	2	3	1	1	2
64	Kursiyan	1	0	1	0	0	0
65	Lachmisenpur	1	1	2	1	0	1
66	Lakhanpur	3	2	5	2	2	4
67	Lakhi	2	1	3	2	0	2
68	Lalmankot	2	1	3	1	0	1
69	Laskarpur	0	5	5	0	3	3
70	Latauni	3	3	6	3	1	4
71	Magrahua	2	1	3	2	1	3
72	Mahada	2	1	3	0	1	1
73	Mahmoodpur	5	0	5	3	0	3
74	Mangolepur	1	2	3	1	1	2
75	Mawaiya	4	1	5	4	1	5
76	Mohandas Pur	1	2	3	0	1	1
77	Mohanidih	1	1	2	1	1	2
78	Molanapur	1	1	2	2	1	3
79	Munari	5	6	11	3	1	4
80	Mureri	2	0	2	0	0	0
81	Murli	2	1	3	2	0	2
82	Niyardiha	2	1	3	1	0	1
83	Paharpur	4	1	5	5	1	6
84	Palkanh	1	1	2	0	1	1
85	Paragdih	1	2	3	1	1	2
86	Parana Patti	10	2	12	5	3	8
87	Paranapur	0	1	1	0	2	2
88	Pipri	1	1	2	0	1	1
89	Puraraiji	1	0	1	1	0	1
90	Rajwari	8	3	11	2	1	3
91	Rampur	6	0	6	2	0	2
92	Rasara	0	2	2	0	1	1
93	Rasulpur	1	1	2	0	1	1
94	Rauna Kala	4	3	7	3	2	5
95	Rauna Khurd	0	4	4	0	1	1
96	Razala	1	1	2	0	1	1
97	Roopchandpur	0	1	1	0	2	2
98	Saraiya	1	1	2	0	0	0
99	Shahdeeh	2	1	3	1	0	1
100	Shivdas Pur	1	0	1	1	1	2
101	Singhpur	0	2	2	0	0	0
102	Srikanthpur	1	2	3	0	2	2
103	Suari	2	1	3	2	1	3
104	Sugulpur	2	3	5	1	1	2
105	Sultanipur	0	3	3	0	1	1

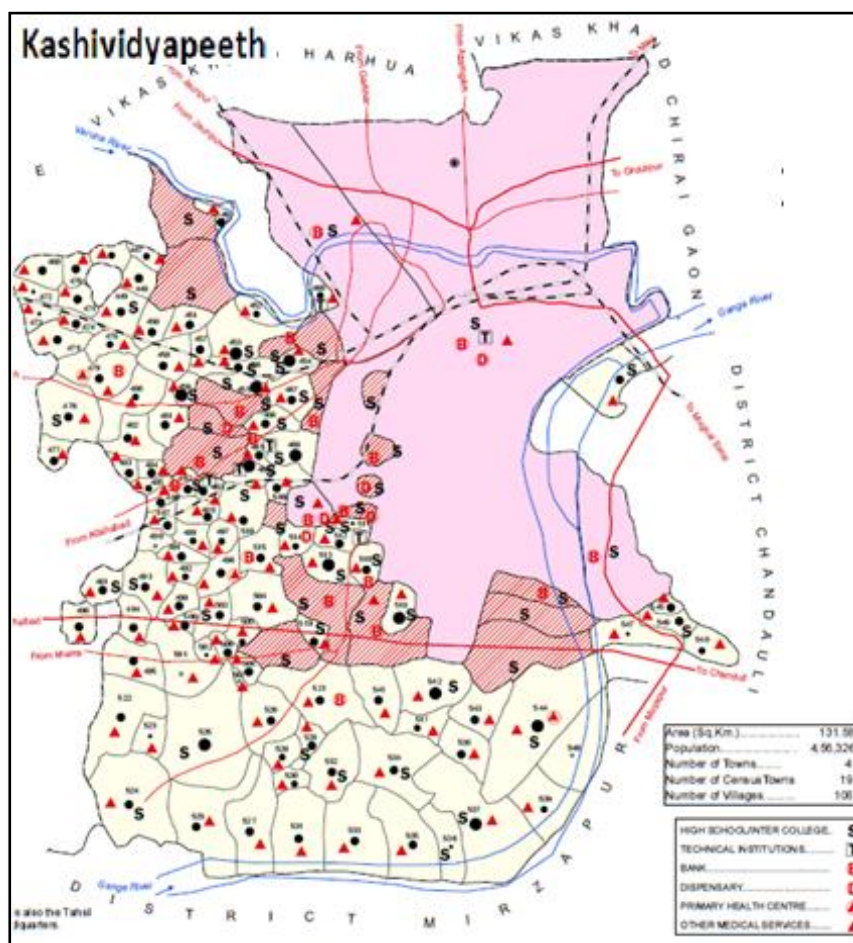
Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
106	Tala	1	1	2	1	2	3
107	Taraon	2	1	3	0	1	1
108	Tari	0	0	0	1	0	1
109	Tekari	0	2	2	0	3	3
110	Tekuri	1	0	1	1	1	2
111	Tilmapur	1	0	1	1	0	1
112	Tisaura	5	1	6	4	0	4
113	Udho Rampur	2	1	3	2	1	3
114	Ugapur	1	4	5	0	3	3
Total		234	189	423	143	106	249

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
13	Bahlolpur	0	1	1	0	1	1
14	Bajhiya	2	2	4	0	2	2
15	Balua	3	1	4	2	1	3
16	Baniyapur	0	1	1	0	0	0
17	Barwapur	0	1	1	0	0	0
18	Bedi	1	0	1	0	0	0
19	Belwariya	1	1	2	0	1	1
20	Benipur Khurd	2	1	3	1	0	1
21	Berwa	0	3	3	0	1	1
22	Bhagtupur	8	0	8	8	0	8
23	Bhatauli	1	3	4	3	1	4
24	Bhatpurwa Kala	0	1	1	1	0	1
25	Bhawanipur	4	3	7	0	0	0
26	Bhelkha	1	2	3	1	1	2
27	Bhohar	2	4	6	1	3	4
28	Bhopapur	3	1	4	3	1	4
29	Bira Patti	0	1	1	1	1	2
30	Chakka	2	2	4	1	1	2
31	Chamawn	2	3	5	1	1	2
32	Chandapur	1	4	5	1	1	2
33	Chandi Patti	1	1	2	1	0	1
34	Chauka	0	2	2	0	1	1
35	Chhatripur	3	0	3	0	0	0
36	Chukhepur	3	1	4	1	0	1
37	Dandupur	3	3	6	3	2	5
38	Daniyalpur	0	0	0	1	0	1
39	Dasepur	2	2	4	3	0	3
40	Dasnipur	1	1	2	1	1	2
41	Devonathpur	1	0	1	1	0	1
42	Dhaneshri	1	1	2	0	0	0
43	Dharmalpur	0	2	2	0	0	0
44	Dihwa	3	0	3	2	0	2
45	Ekala	0	2	2	0	1	1
46	Etwa	0	1	1	0	1	1
47	Gahani	1	1	2	1	1	2
48	Ganeshpur	1	1	2	0	1	1
49	Garhwa	2	0	2	2	0	2
50	Gaura	3	0	3	2	0	2
51	Ghamhapur	1	2	3	0	1	1
52	Gokulpur	1	0	1	2	1	3
53	Gosaipur	3	5	8	1	4	5
54	Gosaipur Mohaon	3	5	8	1	4	5
55	Gurwat	3	0	3	2	0	2
56	Har Ballabhpur	1	0	1	1	0	1

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
57	Harhua	2	0	2	0	1	1
58	Harishankar Patti	0	1	1	0	0	0
59	Hasimpur	1	1	2	0	1	1
60	Hatiya	3	2	5	3	1	4
61	Hirapur	0	1	1	0	0	0
62	Holapur	4	1	5	2	1	3
63	Inderwar	0	2	2	0	1	1
64	Jaipar	1	0	1	0	0	0
65	Jamunipur	1	2	3	0	2	2
66	Kakalpur	3	0	3	2	0	2
67	Kanudih	1	2	3	0	1	1
68	Karoma	1	0	1	0	0	0
69	Khan Patti	2	0	2	1	0	1
70	Kharagpur	0	1	1	1	0	1
71	Kohasi	0	1	1	0	1	1
72	Koirajpur	5	4	9	4	1	5
73	Koiran	0	2	2	0	0	0
74	Kurauli	1	1	2	1	0	1
75	Lalpur	6	5	11	3	1	4
76	Lamhi	10	4	14	2	3	5
77	Lorhan	0	1	1	0	1	1
78	Luchchepur	0	1	1	0	1	1
79	Madhopur	1	0	1	1	0	1
80	Mahadepur	0	1	1	0	0	0
81	Mahadevpur	2	1	3	1	0	1
82	Mansapur	1	0	1	2	0	2
83	Marhawa	1	0	1	0	0	0
84	Mohanpur	0	3	3	0	3	3
85	Murdaha	4	3	7	2	1	3
86	Nakchhdpur	1	0	1	1	0	1
87	Narayanpur	1	0	1	0	0	0
88	Nonauti	1	0	1	1	0	1
89	Palahi Patti	5	2	7	4	1	5
90	Pali Shambhupur	1	1	2	1	0	1
91	Parmanandpur	0	1	1	0	0	0
92	Pashchimpur	0	1	1	0	1	1
93	Payagpur	0	1	1	0	1	1
94	Phakirpur	0	1	1	0	0	0
95	Pisaur	3	3	6	1	2	3
96	Pratap Patti	0	1	1	0	1	1
97	Puari Kala	7	4	11	6	5	11
98	Puari Khurd	0	2	2	0	2	2
99	Purabpur	1	1	2	1	1	2
100	Raisi Patti	4	0	4	2	0	2

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
101	Rajapur	0	3	3	0	0	0
102	Ramdat Pur	2	1	3	0	2	2
103	Ramgaon	2	0	2	2	0	2
104	Ramchandarpur	0	0	0	0	1	1
105	Ramsinghpur	3	1	4	2	1	3
106	Rashulpur	1	0	1	0	0	0
107	Sabhaipur	2	2	4	2	0	2
108	Saee	1	0	1	1	0	1
109	Sarai Kazi	1	2	3	1	1	2
110	Saraiya	3	0	3	1	0	1
111	Sarayswami	1	0	1	0	0	0
112	Sarswan	4	3	7	1	0	1
113	Sehmalpur	1	1	2	1	1	2
114	Shivrampur	2	8	10	1	6	7
115	Sikandarpur	1	2	3	1	0	1
116	Singhapur	3	1	4	2	1	3
117	Sonakdih	1	1	2	1	0	1
118	Soyepur	1	2	3	1	0	1
119	Sulemapur	2	1	3	2	1	3
120	Surawan	0	1	1	0	1	1
121	Sutwalpur	2	1	3	1	1	2
122	Tarna	3	0	3	0	0	0
123	Tewar	3	1	4	2	2	4
124	Udaypur	2	1	3	1	1	2
125	Undi	1	1	2	0	0	0
126	Wazidpur	1	2	3	1	1	2
Total		209	170	379	139	96	235

Cancer incidence cases and mortality cases: Kashividyapeeth, Varanasi district (2017-2019)



Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	Akhari	4	8	12	2	3	5
2	Akhileshpur	4	1	5	3	3	6
3	Alauddinpur	2	2	4	1	1	2
4	Anantpur	0	1	1	0	1	1
5	Aura	1	1	2	0	0	0
6	Bachhawn	5	8	13	3	4	7
7	Bakhariya	0	1	1	0	1	1
8	Balipur	0	1	1	0	0	0
9	Balirampur	2	0	2	1	0	1
10	Bandepur	0	2	2	0	2	2
11	Bankat	3	2	5	3	2	5
12	Barthara	3	0	3	1	0	1
13	Berhauli	1	0	1	1	0	1
14	Betwar	0	2	2	0	1	1
15	Bhadwar	1	2	3	1	1	2
16	Bhatti	2	2	4	0	1	1

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
17	Bhikharipur Kala	5	4	9	2	2	4
18	Bhitari	6	7	13	2	2	4
19	Bhitti	4	6	10	1	3	4
20	Bhualpur	0	1	1	1	0	1
21	Bhullanpur	13	10	23	4	2	6
22	Bisokharpur	1	1	2	1	1	2
23	Bisunpur	2	0	2	0	0	0
24	Chandapur	8	8	16	4	1	5
25	Chhitauni	4	6	10	2	3	5
26	Chitaipur	6	7	13	2	6	8
27	Churamanpur	1	2	3	2	0	2
28	Dafalpur	4	0	4	1	0	1
29	Dafi	6	8	14	2	2	4
30	Daudpur	1	0	1	0	0	0
31	Delhana	1	3	4	1	1	2
32	Dhannipur	11	2	13	7	1	8
33	Domari	2	0	2	1	1	2
34	Faridpur	1	1	2	0	0	0
35	Gajadharpur	0	2	2	1	2	3
36	Ghamhapur	3	4	7	1	3	4
37	Ghatmpur	1	1	2	1	0	1
38	Gobindpur	1	1	2	1	0	1
39	Gopalpur	3	1	4	0	2	2
40	Hariharpur	3	2	5	1	1	2
41	Hasapur	0	1	1	0	1	1
42	Kadipur	2	0	2	1	0	1
43	Kakarahiya	4	1	5	2	1	3
44	Kanchanpur	6	8	14	3	4	7
45	Karaundi	12	5	17	5	3	8
46	Karsara	6	3	9	3	2	5
47	Kerakatpur	17	12	29	13	8	21
48	Khanwa	1	1	2	0	1	1
49	Khulaspur	1	0	1	0	1	1
50	Khusipur	1	2	3	0	0	0
51	Kurhua	4	0	4	2	1	3
52	Lakhanipur	1	0	1	2	2	4
53	Lakhanpur	2	7	9	2	1	3
54	Lathiya	2	3	5	0	2	2
55	Madhopur	3	2	5	1	0	1
56	Mahamudpur	11	0	11	9	0	9
57	Maheshpur	7	8	15	3	3	6
58	Mangalpur	7	2	9	4	1	5
59	Manorathpur	1	2	3	0	1	1
60	Manrauli	13	5	18	6	3	9

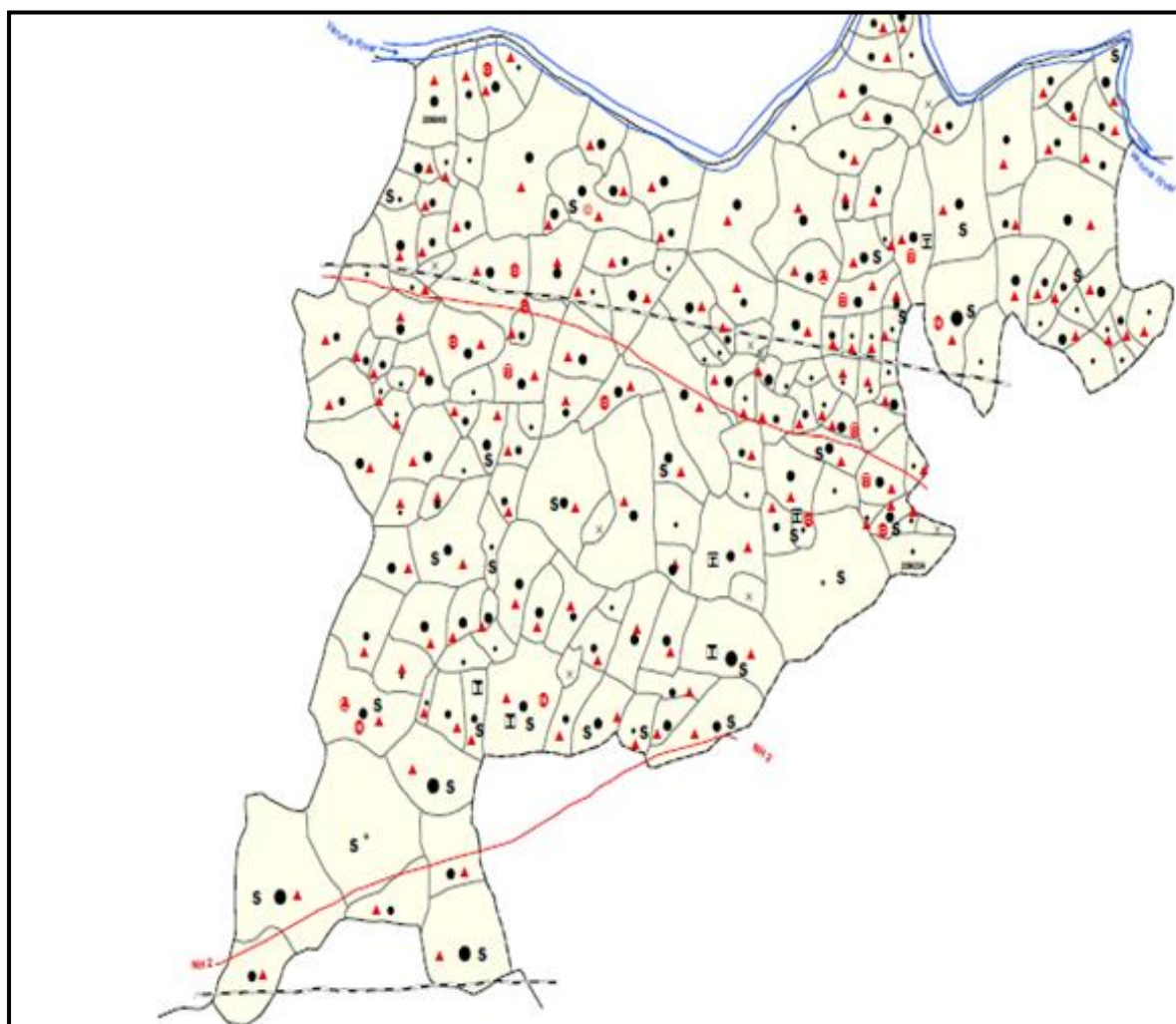
Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
61	Marawan	6	4	10	2	2	4
62	Mirapur	0	1	1	0	1	1
63	Mishirpur	3	0	3	2	1	3
64	Muradev	1	0	1	1	0	1
65	Naipur Kala	2	1	3	2	2	4
66	Naipura Khurd	0	1	1	0	0	0
67	Nakain	3	1	4	2	0	2
68	Narottampur Kala	1	2	3	1	1	2
69	Narottampur Khurd	1	0	1	1	0	1
70	Narur	4	3	7	1	1	2
71	Nasiripur	4	4	8	6	2	8
72	Nathupur	8	1	9	5	0	5
73	Nuawn	2	4	6	1	1	2
74	Pahari	4	4	8	4	2	6
75	Panditpur	0	0	0	2	1	3
76	Parmanandpur	1	0	1	1	0	1
77	Pilkhani	1	0	1	2	0	2
78	Ramna	3	6	9	1	3	4
79	Rampur	1	0	1	1	0	1
80	Ramshipur	1	2	3	1	2	3
81	Sabhaipur	1	1	2	1	1	2
82	Sadalpur	1	0	1	1	0	1
83	Salhupur	1	0	1	1	0	1
84	Sarai Dangari Kala	1	2	3	1	1	2
85	Sarhari	2	0	2	2	0	2
86	Savhat	2	1	3	3	0	3
87	sujabad	13	6	19	9	5	14
88	Sultanpur	5	0	5	4	0	4
89	Surhi	1	0	1	1	0	1
90	Tarapur	0	2	2	0	0	0
91	Tariya	4	2	6	1	0	1
92	Tengara	3	0	3	2	1	3
93	Therauta	1	0	1	0	0	0
94	Tikari	2	5	7	1	3	4
95	Uchgoan	1	2	3	2	1	3
96	Udairajpur	1	0	1	1	0	1
97	Zafarabad	1	0	1	0	0	0
Total		302	277	529	176	119	295

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
20	Binda	3	0	3	2	0	2
21	Buchi	0	1	1	0	1	1
22	Chamru	2	0	2	0	0	0
23	Charo	1	2	3	1	1	2
24	Chehara	2	0	2	1	0	1
25	Chhataon	2	2	4	0	1	1
26	Chintamanpur	1	1	2	0	1	1
27	Chitaura	0	2	2	0	1	1
28	Chiurapur	3	2	5	2	1	3
29	Dallipur	0	2	2	0	0	0
30	Dashrathpur	1	1	2	1	1	2
31	Dayalipur	1	0	1	0	0	0
32	Dayalpur Khurd	1	0	1	1	0	1
33	Deorai	1	0	1	0	0	0
34	Devji	0	2	2	0	2	2
35	Dharmanpur	1	1	2	0	0	0
36	Dharsauna	0	1	1	0	0	0
37	Dindaspur	0	2	2	0	2	2
38	Dithiya	1	0	1	0	0	0
39	Dudilpur	0	1	1	0	2	2
40	Fatehpur	2	1	3	1	0	1
41	Gadar	2	1	3	1	1	2
42	Gajendra	1	1	2	0	0	0
43	Gajokhar	3	1	4	1	1	2
44	Gangapur	2	1	3	2	2	4
45	Ganzari	1	3	4	1	0	1
46	Garkhara	5	5	10	3	2	5
47	Garthma	6	0	6	0	2	2
48	Ghamhapur	0	1	1	0	1	1
49	Ghoghali	1	0	1	0	0	0
50	Goghari	2	0	2	2	0	2
51	Gopal Patti	0	1	1	0	1	1
52	Gori	2	0	2	0	0	0
53	Harishankarpur	1	0	1	0	0	0
54	Hathiwari	1	1	2	1	1	2
55	Hiramanpur	5	0	5	1	0	1
56	Inderkhapur	0	1	1	0	1	1
57	Jagdishpur	6	3	9	6	1	7
58	Jalalpur	1	0	1	0	0	0
59	Jamalpur	1	1	2	1	0	1
60	Jamapur	5	4	9	4	1	5
61	Jathi	6	1	7	5	0	5
62	Jhanjhaur	4	2	6	2	1	3
63	Kachhiya	1	0	1	0	0	0

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
64	Kanakpur	2	2	4	0	1	1
65	Karemua	1	0	1	1	0	1
66	Karkhiyaon	4	4	8	3	2	5
67	Karmi	3	1	4	1	1	2
68	Kashipur	6	1	7	3	1	4
69	Kathauna	2	0	2	1	0	1
70	Khalishpur	9	0	9	6	0	6
71	Koilipur Khurd	0	1	1	0	0	0
72	Korra	0	2	2	0	1	1
73	Krishnapur Kala	0	1	1	0	1	1
74	Mahgaon	4	5	9	3	2	5
75	Mangari	3	7	10	3	3	6
76	Mani	2	1	3	0	0	0
77	Maruee	5	2	7	5	0	5
78	Mulka	1	1	2	1	1	2
79	Murdi	0	3	3	0	0	0
80	Nadoy	4	2	6	1	2	3
81	Nagapur	0	1	1	0	1	1
82	Nandapur	1	0	1	1	0	1
83	Narainpur	1	0	1	1	0	1
84	Nawalpur	0	0	0	0	1	1
85	Nehiya	6	6	12	3	3	6
86	Newada	3	7	10	2	6	8
87	Nihalapur	2	1	3	1	0	1
88	Niwah	1	0	1	2	0	2
89	Odar	1	4	5	1	1	2
90	Padari	1	0	1	0	0	0
91	Parshra	1	1	2	0	0	0
92	Pashchim Patti	2	1	3	1	0	1
93	Patirajpur	2	0	2	2	0	2
94	Phatehpur Katauna	1	1	2	0	0	0
95	Phoolpur	7	2	9	5	1	6
96	Pindara	11	10	21	3	7	10
97	Pindra	2	3	5	1	2	3
98	Prasadpur	3	2	5	3	1	4
99	Pratappur	1	0	1	1	0	1
100	Raghurampur	1	1	2	1	2	3
101	Rajpur	10	3	13	6	5	11
102	Ramai Patti	3	5	8	0	2	2
103	Ramnagar	1	0	1	0	0	0
104	Rampur	3	2	5	1	0	1
105	Rasulpur	3	2	5	2	1	3
106	Ratanpur	1	0	1	0	0	0
107	Roh	1	1	2	1	1	2

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
108	Sahapur	1	1	2	2	1	3
109	Salwahanpur	0	1	1	0	1	1
110	Samogara	1	0	1	0	0	0
111	Sarai Takki	0	1	1	0	1	1
112	Saray	3	1	4	3	0	3
113	Saray Shekhlad	0	0	0	0	1	1
114	Sarhad	2	0	2	1	0	1
115	Shahpur	3	3	6	2	2	4
116	Shehmalpur	1	2	3	0	1	1
117	Shivpur	0	2	2	0	0	0
118	Sindhora	7	12	19	3	6	9
119	Sujanipur	1	0	1	0	0	0
120	Surahae	2	0	2	3	2	5
121	Telari Urf Narayanpur	0	1	1	0	1	1
122	Thana	0	1	1	0	0	0
123	Thari	2	2	4	0	1	1
124	Tikari Kala	2	1	3	1	0	1
125	Tikari Khurd	4	0	4	1	0	1
126	Tiwaripur	3	0	3	1	0	1
127	Udhapur	1	2	3	1	1	2
128	Udpur	5	1	6	5	0	5
129	Vikrampur	1	0	1	1	0	1
130	Virdawalpur	0	1	1	0	0	0
131	War	0	1	1	0	1	1
Total		266	193	459	155	117	272

Cancer incidence cases and mortality cases: Sewapuri, Varanasi district (2017-2019)



Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	Adampur	1	2	3	0	2	2
2	Amini	0	2	2	0	1	1
3	Amripur	0	0	0	1	0	1
4	Arjunpur	4	3	7	4	3	7
5	Bahra	0	2	2	0	1	1
6	Baijal Pur	1	0	1	1	0	1
7	Bajardiha	1	3	4	2	4	6
8	Banauli	1	0	1	0	1	1
9	Bankat	2	1	3	2	1	3
10	Bara Dih	3	2	5	2	1	3
11	Baraura	2	2	4	1	3	4
12	Barema	1	1	2	4	2	6
13	Barki	3	4	7	2	2	4
14	Bazar Kalika	7	0	7	7	0	7

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
15	Belwa	2	1	3	2	0	2
16	Beshupur	1	3	4	0	3	3
17	Bhgautipur	2	0	2	1	0	1
18	Bhikhampur	8	3	11	3	2	5
19	Bhitkuri	2	1	3	2	0	2
20	Bhorkala	2	4	6	2	2	4
21	Birampur	1	0	1	0	0	0
22	Chak Chelawa	0	1	1	0	0	0
23	Chaklola	2	0	2	2	0	2
24	Chaur	0	1	1	0	1	1
25	Chhateri Manapur	1	5	6	0	1	1
26	Chitarsenpur	3	2	5	4	1	5
27	Dayapur	1	1	2	0	0	0
28	Dandoopur	0	0	0	1	0	1
29	Daulatiya	0	0	0	0	1	1
30	Deipur	2	1	3	3	1	4
31	Devopalpur	1	2	3	1	1	2
32	Dilavalpur	1	1	2	1	0	1
33	Domaila	4	2	6	3	0	3
34	Domanpur	2	1	3	1	1	2
35	Ekdanga	1	0	1	1	0	1
36	Gaddopur	0	2	2	0	0	0
37	Gaharpur	1	0	1	1	0	1
38	Gairaha	1	1	2	0	0	0
39	Gajepur	3	1	4	2	1	3
40	Ghosila	2	2	4	1	1	2
41	Gorai	3	1	4	3	0	3
42	Gosai Pur	2	1	3	2	0	2
43	Guria	2	1	3	1	1	2
44	Harbhampur	3	1	4	0	1	1
45	Harihar Pur	2	2	4	1	0	1
46	Hathi	8	1	9	4	1	5
47	Hinttapur	0	2	2	0	2	2
48	Hirampur	1	0	1	1	0	1
49	Hirapur	0	1	1	0	1	1
50	Isharwar	0	0	0	0	1	1
51	Jaga Patti	0	1	1	1	1	2
52	Jagati Pur	0	1	1	0	1	1
53	Jagdishpur	1	2	3	1	2	3
54	Jogapur	1	0	1	0	0	0
55	Jogiyapur	1	0	1	0	0	0
56	Kama Pur	1	0	1	2	0	2
57	Kamalahan	1	0	1	0	0	0
58	Kapsethi	4	2	6	3	0	3

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
59	Kardhana	6	9	15	5	5	10
60	Katwaru Pur	1	2	3	1	3	4
61	Khalispur	3	1	4	2	1	3
62	Khamauna	1	0	1	0	0	0
63	Khandakh	0	0	0	0	1	1
64	Khargu Pur	3	2	5	4	1	5
65	Khemapur	2	3	5	1	1	2
66	Kurauana Urf Rameshwar	1	1	2	1	0	1
67	Lachhipur	0	1	1	0	0	0
68	Lahiya	0	1	1	1	0	1
69	Lakhansenpur	3	1	4	2	1	3
70	Lalpur	1	0	1	1	1	2
71	Lenuwayi	0	2	2	0	1	1
72	Lohara Dih	4	0	4	2	0	2
73	Madhopur	0	0	0	1	0	1
74	Mahagipur	0	1	1	0	1	1
75	Mahrajpur	0	2	2	0	0	0
76	Majhiyarpur	2	2	4	0	0	0
77	Maniyari Pur	0	2	2	0	0	0
78	Mariya	1	0	1	0	0	0
79	Matuka	2	3	5	0	1	1
80	Milki Chak	0	2	2	0	1	1
81	Mokarwan	1	0	1	0	0	0
82	Nawalpur	0	1	1	0	0	0
83	Newada	2	3	5	1	0	1
84	Newada Khas	0	2	2	0	1	1
85	Newriya	1	1	2	2	1	3
86	Nohanipur	4	2	6	2	1	3
87	Nonkharan	1	1	2	1	1	2
88	Pachwar	0	2	2	0	1	1
89	Parsi Pur	1	1	2	1	1	2
90	Parsottampur	1	0	1	0	0	0
91	Peduka	1	0	1	2	0	2
92	Pure	7	3	10	3	0	3
93	Raghunathpur	0	3	3	1	4	5
94	Raishipur Sattanpur	0	2	2	0	1	1
95	Ram Datt Pur	0	1	1	0	1	1
96	Ramdih	3	3	6	2	3	5
97	Ramnif	1	0	1	1	0	1
98	Rampur Mutllike	1	0	1	0	0	0
99	Rampur Raisipur	2	3	5	1	1	2
100	Rasulaha	1	2	3	1	2	3
101	Sakalpur	4	0	4	3	0	3
102	Sato	0	0	0	0	1	1

Sr. No.	Village name	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
103	Sattanpur	2	3	5	3	2	5
104	Shambhu Pur	1	0	1	0	0	0
105	Shpehata	0	2	2	1	1	2
106	Sikhari	3	1	4	0	1	1
107	Sirhira	1	2	3	0	2	2
108	Sonbarsa	0	3	3	0	2	2
109	Tamachabad	0	1	1	0	1	1
110	Tatehara	0	0	0	1	0	1
111	Tendui	1	3	4	0	2	2
112	Thatra	6	8	14	2	5	7
113	Tiwari Pur	0	1	1	0	1	1
114	Todarpur	1	1	2	1	1	2
115	Uparwar	1	3	4	1	1	2
116	Vihana	5	0	5	3	0	3
Total		181	166	347	130	104	234

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Mr. Kapil Dev, Technician C
Mr. Pintu Gupta, Technician C
Mr. Arvind Kumar Patel, Technician
Mr. Chandan Patel, Technician
Mr. Prabhu Dayal, Technician
Mr. Shahrukh, Technician

Accounts

Mr. Asheesh Saraswat, Deputy Controller of
Accounts
Mr. Vijay Khandelwal, Assistant Accounts
Officer

Purchase and Stores

Mr. Abhishek Kumar Tiwari, Purchase Officer
Mr. Manish Kumar Pandey, Asst. Purchase &
Stores Officer

Security

Mr. Suneel Kumar Singh, Deputy Chief Security
Officer

25. Annexure

Publications

1. Saraswathy MV, Khanna D*, Dandpat A (2022). **Cervical Cancer Elimination in Indian context: Moving from Barriers to Facilitators**. (Accepted for publication by Cancer-American Cancer Society)
2. Anand A, Khanna D*, Singh P, Singh A, Pandey A, Budukh A, Pradhan S (2022). **Evaluation of Medical Certification of Cause of Death of Tertiary Cancer Hospitals of Northern India** (Accepted by Health Information Management Journal)
3. Budukh A*, Pradhan S, Singh VB, Khanna D, Bagal S, Chakravarti P, Sharma A, Vishwakarma R, Shinde S, Khargekar N, Chaturvedi P, Dikshir R, Badwe R (2021): **Cancer Pattern in Varanasi district from the Uttar Pradesh State of India, a foundation for cancer control based on the first report of the population-based cancer registry** (Accepted for publication by Indian Journal of cancer).
4. Khargekar NC, Khanna D*. **Cancer Screening during COVID-19 Pandemic**. *Asia-Pacific Journal of Oncology Nursing*. 2020 Oct 1;7(4):308-9.
5. Khanna D, Khargekar NC, Khanna AK*. **Implementation of early detection services for cancer in India during COVID-19 pandemic**. *Cancer Control*. 2020 Sep 15;27(1):1073274820960471.
6. Khanna D. **Evaluating Knowledge Regarding Cervical Cancer and Its Screening among Woman in Rural India**. *South Asian Journal of Cancer*. 2020 Jul;9(03):141-6.
7. Khanna D, Khargekar N, Budukh A. **Knowledge, attitude, and practice about cervical cancer and its screening among community healthcare workers of Varanasi district, Uttar Pradesh, India**. *Journal of Family Medicine and Primary Care*. 2019 May;8(5):1715.

International Association of Cancer Registries (IACR) meeting 2021

Population Based Cancer Registry Varanasi district presented three scientific poster virtually in the International Association of Cancer Registries (IACR), meeting was conducted from 12th to 14th October 2021.



1. Cancer burden and patterns in paediatric population of Varanasi district, Uttar Pradesh, India: Findings from the Population-based Cancer Registry

Abhishek Kumar Pandey, Anand Sharma, Divya Khanna, Sonali Bagal, Rajesh Vishwakarma, Atul Budukh, Rajesh Dikshit, Satyajit Pradhan, Pankaj Chaturvedi, Rajendra Badwe

2. Challenges faced during cancer registry operations since the onset of COVID-19 pandemic: A report from the Population-based cancer registry of Uttar Pradesh, India

Fahad Mahmood, Divya Khanna, Amit Kumar Pandey, Atul Budukh, Rajesh Dikshit, Satyajit Pradhan, Pankaj Chaturvedi, Rajendra Badwe

3. Urban-rural differences in Oral, Breast and Cervical Cancer incidences in Varanasi district, Uttar Pradesh, India: Findings from Population-based Cancer Registry

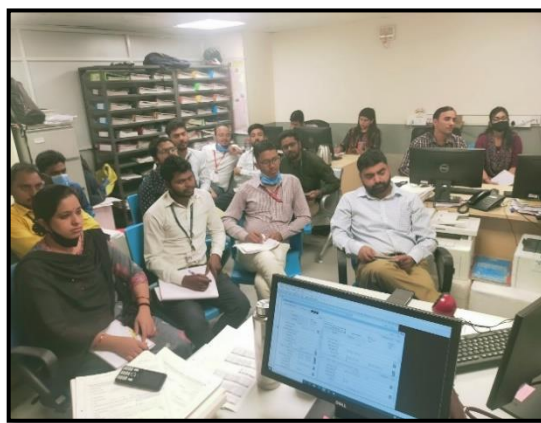
Divya Khanna, Rajesh Vishwakarma, Sonali Bagal, Atul Budukh, Rajesh Dikshit, Satyajit Pradhan, Pankaj Chaturvedi, Rajendra Badwe

International Training

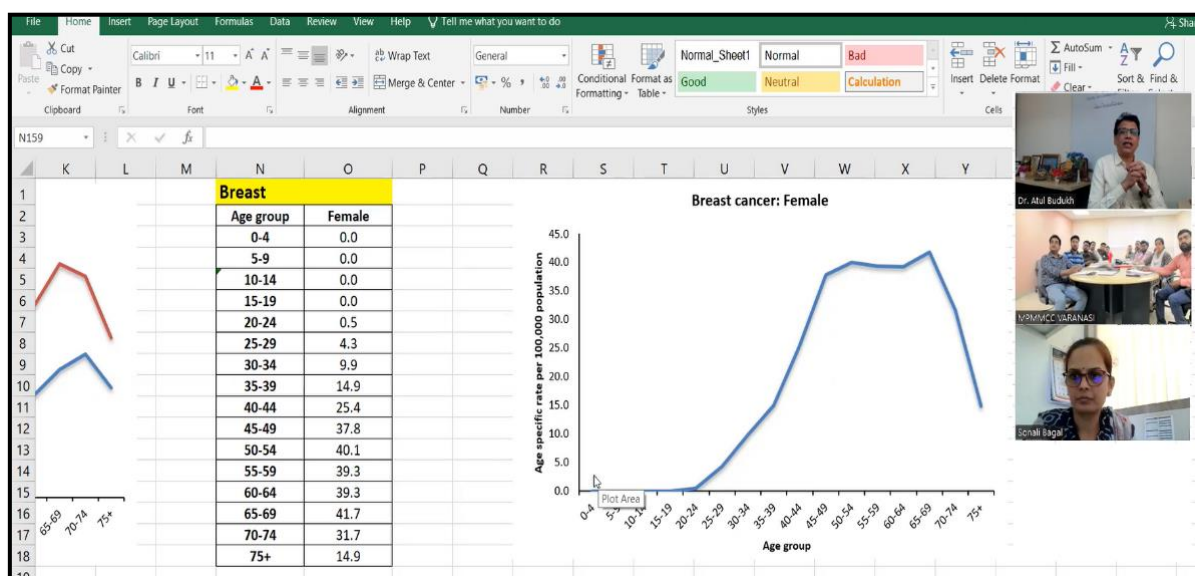
1. Mrs. Sonali Santosh Bagal got the virtual fellowship from Union for International Cancer Control (UICC), Geneva in which received training on 'Survival analysis of population-based cancer registry data by using R software' under the guidance of Dr. Karri Seppä from Finnish Cancer Registry, Finland in December 2021.
2. Mr. Anand Narayan Sharma was attended virtual Online Summer School on Cancer Registration: Principles and Methods conducted by IARC GICR and National Cancer Center Graduate Cancer Science and Policy, Republic of Korea on 13-15 Jul 2021.

Photo gallery

Training was provided to cancer registry staff to upgrade the knowledge in cancer registration by the senior faculties from Varanasi as well from TMC, Mumbai.



Regular virtual meeting of cancer registry staff with CCE-TMC Mumbai, team



Data collection and cancer awareness in the community

Staff has conducted meeting with Anganwadi Sevika, ANM and ASHA worker to raise cancer awareness in the community as well as their role in cancer registration process.



Cancer cases data collection from municipal death registration office



Cancer cases data collection through community interaction



Cancer awareness programme

Cancer education and awareness program organised at Rajkiya girls Degree College, Varanasi by Dr. Divya Khanna, Associate Professor & OIC Dept of Preventive Oncology, MPMMCC, Varanasi.



Report distribution



Dr. Atul Budukh – Co-Principal Investigator PBCR Varanasi handing over a copy of the PBCR, Varanasi 2017 report to Dr. Rajesh Dikshit – Director, CCE-TMC



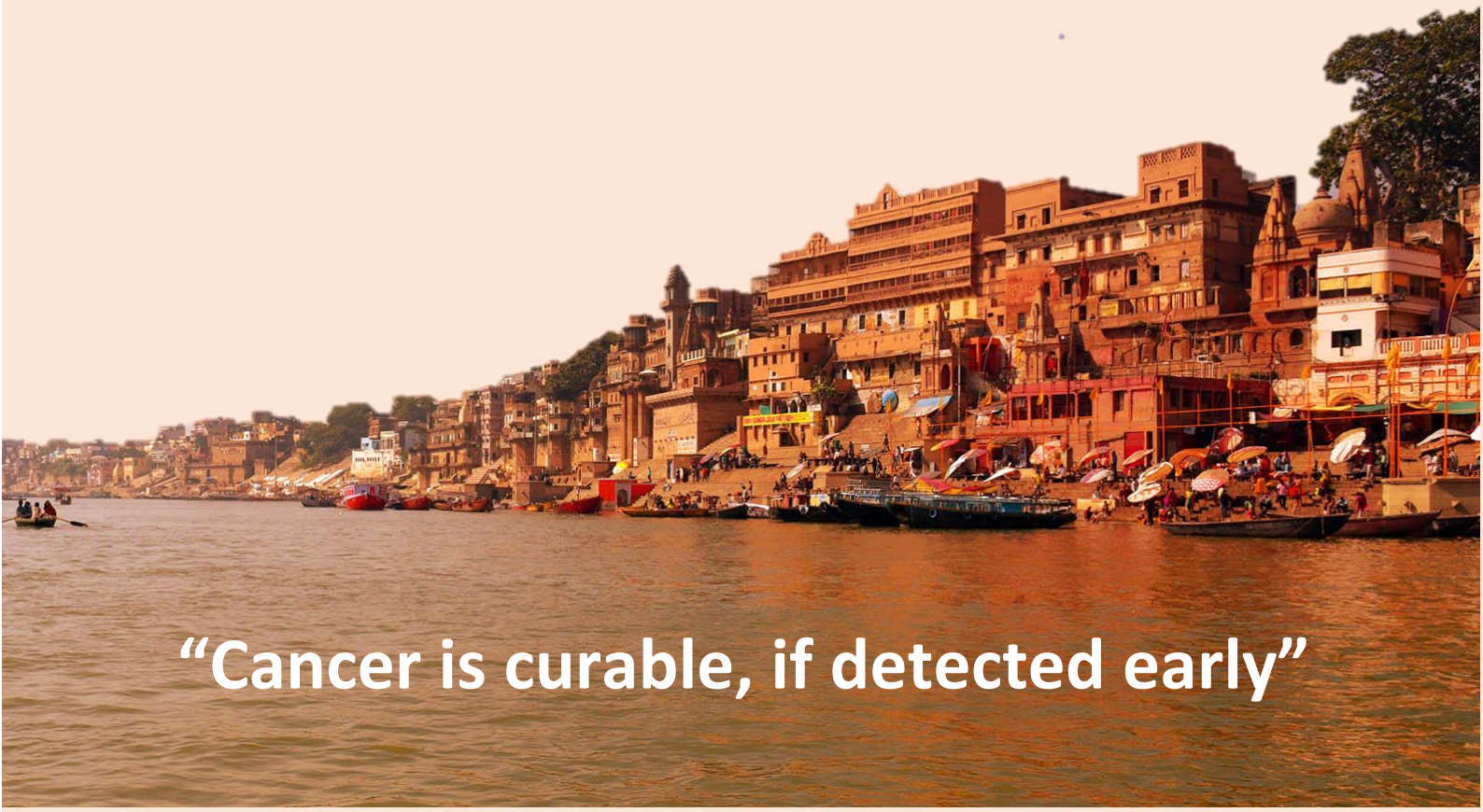
Dr. S Pradhan – Director MPMMCC & HBCH handing over the copy of PBCR, Varanasi 2017 report to Professor R K Jain, Former Director of IMS BHU, and Dr. Rakesh Bhatnagar, Former Vice-Chancellor of BHU, Varanasi



Tata Memorial Centre, Mumbai, India



**Centre for Cancer Epidemiology – ACTREC,
Kharghar, Navi Mumbai**



“Cancer is curable, if detected early”