# Cancer Incidence and Mortality in Varanasi District, Uttar Pradesh, India: 2020-2021

## Population-Based Cancer Registry (PBCR) Report



Centre for Cancer Epidemiology (CCE), Mumbai, India
Advanced Centre for Treatment, Research and Education in Cancer, Kharghar, India
Homi Bhabha Cancer Hospital (HBCH) & Mahamana Pandit Madan Mohan Malaviya Cancer Centre (MPMMCC), Varanasi, Uttar Pradesh, India
Tata Memorial Centre (TMC), Mumbai, India
(A Grant-in-Aid Institution under Department of Atomic Energy, Government of India)
Homi Bhabha National Institute (HBNI), Mumbai, India

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

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

# Report Release

Dr. Rajendra Badwe (Former Director, Tata Memorial Centre), Dr. S Pradhan (Director, MPMMCC & HBCH), Dr. BK Mishra (Deputy Director, HBCH) along with other dignitaries released the Population-Based Cancer Registry report: 2018-2019 on 19th February 2023.

## Press Release

### BHU के मरीजों को छूट देगा टाटा कैंसर अस्पताल, जांच के लिए भटकने को मजबूर नहीं होंगे रोगी

जांच की जो सुविधा बीएचयू में नहीं है वह टाटा अस्पताल में मिल सकेगी। ऐसे में कई राज्यों से आने वाले मरीजों व उनके तीमारदारों को इस सुविधा से राहत मिलेगी। सुविधा पाने के लिए चिकित्सा अधीक्षक कार्यालय से रेफर भी कराना होगा।

BY JAGRAN NEWS
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टाटा कैंसर अस्पताल के स्थापना दिवस की पूर्व संध्या पर रिपोर्ट कार्ड का विमोचन करते अस्पताल के अधिकारीगण। - अस्पताल

**वाराणसी, जागरण संवाददाता।** जांच की जो सुविधा बीएचयू के सर सुंदरलाल अस्पताल में नहीं है वह जांच महामना पंडित मदन मोहन मालवीय कैंसर केंद्र एवं होमी भाभा कैंसर अस्पताल में छूट पर होगी। टाटा कैंसर अस्पताल के निदेशक प्रो. एसके प्रधान ने बताया कि छूट में जांच के लिए दोनों संस्थानों में छावनी स्थित होटल क्लार्क में आयोजित कार्यक्रम में समझौता हुआ। इस पहल से मरीजों को राहत मिलेगी।

**बताया कि टाटा कैंसर अस्पताल में** जांच के लिए तीन श्रेणी प्राइवेट, जनरल व आर्थिक रूप से कमजोर लोगों के लिए है। बीएचयू से कैंसर के जो मरीज आएंगे उन्हें इन्हीं श्रेणियों के अनुसार जांच में छूट दी जाएगी। अन्य रोगों के मरीजों की

### छह वर्ष में पूर्वांचल में चार गुना बढ़े कैंसर के मरीज, गाल ब्लेडर कैंसर का बढ़ा दायरा

जागरण संवाददाता, वाराणसी: टाटा स्मारक केंद्र मुंबई के निदेशक डा. सुदीप गुप्ता ने बताया कि कैंसर के मरीज हर वर्ष बढ़ रहे हैं। 2018 में बनारस के अस्पतालों में 6307 मरीजों का पंजीकरण हुआ था, जो 2024 में बढ़कर 26,732 हो गया। मरीजों की संख्या में साढ़े चार गुना वृद्धि हुई है। दोनों अस्पतालों में 1,27,105 मरीजों का पंजीकरण हुआ, इसमें 65 हजार सर्जरी, 15,363 रेडियोथेरेपी और चार लाख से अधिक मरीजों की कीमोथेरेपी की गई है। वह शनिवार को शहर के होटल क्लार्क में पत्रकारों को संबोधित कर रहे थे।

उन्होंने बताया कि मरीजों के बढ़ते आंकड़े चिंतनीय हैं। यहां पर गाल ब्लेडर के कैंसर तेजी से बढ़ रहे हैं। एक हजार में आठ लोगों को यह कैंसर हो रहा है जबकि मुंबई में यह आंकड़ा दो मरीज का ही है। दो लाख से अधिक लोगों की कैंसर स्क्रीनिंग हुई, इनमें 1,68,000 महिलाएं शामिल हैं। मुख कैंसर, स्तन कैंसर एवं गर्भाशय ग्रीवा का कैंसर भी तेजी से बढ़ रहा है। चिकित्सकीय सामाजिक विभाग की तरफ से 38,262 मरीजों को सरकारी व गैर सरकारी संस्थाओं से जुड़ी योजनाओं के जरिए 350 करोड़ रुपये का उपचार सुलभ कराया गया है। महामना पंडित मदन मोहन मालवीय कैंसर सेंटर के निदेशक डा.

होटल क्लार्क में टाटा मेमोरियल कैंसर हास्पिटल के डायरेक्टर प्रेसवार्ता करते हुए।

#### बीएचयू अस्पताल और संस्थान के बीच सहयोग बेहतर

महामना पंडित मदन मोहन मालवीय कैंसर सेंटर के निदेशक डा. सत्यजीत प्रधान ने बताया कि बीएचयू के रेडियोथेरेपी विभाग और सर्जिकल आंकोलाजी विभाग के साथ समन्वय के साथ काम हो रहा है। दोनों संस्थान मिलकर कैंसर के खिलाफ जंग लड़ रहे हैं। प्रकरण में विभागों का आरोप है कि कैंसर सेंटर की तरफ से एमओयू के अनुसार कार्य नहीं किया जा रहा है। बीएचयू के मरीजों के साथ भेदभाव नहीं किया जा रहा है। दोनों विभागों के बीच समन्वय का अभाव है।

सत्यजीत प्रधान ने बताया कि अस्पताल को 136 करोड़ से सीएसआर मिल चुका है, प्रदेश सरकार के अलावा इंडियन आयल, पावरग्रिड कारपोरेशन, नार्दन कोल फील्डस, एचडीएफसी बैंक, कोटक महिंद्रा समेत कई कंपनियों की सहायता से मरीजों को आधुनिक सुविधाओं से जोड़ा गया है। तीन नए लीनियर एक्सलरेटर मशीन की खरीद हुई है।

डिप्टी डायरेक्टर डा. बीके मिश्रा ने बताया कि महामना पंडित मदन मोहन मालवीय कैंसर केंद्र और होमी भाभा कैंसर अस्पताल में छह वर्षों में 1,27,105 कैंसर मरीजों का पंजीकरण हुआ है। मेडिकल आंकोलाजी, सर्जिकल आंकोलाजी, रेडिएशन आंकोलाजी, आंकोपैथोलाजी एवं एनिस्थिसियोलाजी सहित स्नातकोत्तर एवं सुपर स्पेशिएलिटी के पाठ्यक्रम संचालित हो रहे हैं।

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

**Tata Memorial Centre (TMC), Mumbai**

| Name | Role | Designation |
|---|---|---|
| Dr. Sudeep Gupta | Principal Investigator | Director – TMC |
| Dr. Rajendra Badwe | Ex-Principal Investigator | Former-Director – TMC |
| Dr. Pankaj Chaturvedi | Co – Investigator | Director – ACTREC, TMC |
| Dr. Rajesh Dikshit | Co – Investigator | Director – CCE, TMC |
| Dr. Amita Maheshwari | Co – Investigator | OIC, MPMMCC & HBCH |
| Dr. Atul Budukh | Co-Principal Investigator | Professor – CCE, TMC |

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| Dr. Satyajit Pradhan | Co-Principal Investigator | Director – HBCH & MPMMCC |
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| Dr. Divya Khanna | Co – Investigator | Associate Prof. and OIC: Preventive Oncology/ Focal Person for PBCR & HBCR |

**District Health Authorities**

| Name | Role | Designation |
|---|---|---|
| Dr. Sandeep Chowdhary | Co – Investigator | CMO Varanasi District |

**Banaras Hindu University (BHU), Varanasi**

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

# I. Highlights

- Varanasi population based cancer registry is the first cancer registry in the Uttar Pradesh (UP) state of India. The registry was established by Centre for Cancer Epidemiology, Tata Memorial Centre (TMC), Mumbai on 1st April 2017. This is third report of PBCR Varanasi for the years 2020 and 2021.
- The registry covers around 4.1 million population of the district (urban area and 1,295 villages from 8 blocks of the district). The 53% population of the district is rural.
- The cancer registry staff has collected the cancer cases data from all cancer centres, private hospitals, and laboratories in Varanasi and adjacent regions as well as government hospitals and primary health centres. There are more than 100 sources of cancer registration.
- The registry staff has interacted with more than 7,500 community leaders to gather the cancer cases information.
- In the year 2020 and 2021, the cancer registry registered 4,446 cancer incidence cases (2,514 [56.5%] males and 1,932 [43.5%] females).
- The main source of information is from Mahamana Pandit Madan Mohan Malaviya Cancer Centre and Homi Bhabha Cancer Hospital, Varanasi and through village visits by community interaction.
- The age adjusted incidence rate for males is 67.7 per 100,000 population and for females, it is 54.7 per 100,000 population.
- 1 in 13 males and 1 in 16 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 665 (26.5%) mouth cancer, 225 (8.9%) tongue and 163 (6.5%) gall bladder cancer cases in males during the period 2020 and 2021.
- Mouth cancer incidence in males is high in this population (AAR 17.8 per 100,000). 1 in 51 males is at risk of developing the disease.
- In this population 51.2% and 14.2% 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 449 (23.2%) breast cancer, 274 (14.2%) gallbladder cancer and 172 (8.9%) cervix uteri cancer cases in females during the period 2020 and 2021.

- Breast cancer incidence is 12.4 per 100,000 population, which is low as compared to other urban registries in India. 1 in 76 females are at risk of developing breast cancer.

- Gall bladder cancer is the second leading cancer site in females. The incidence is 7.9 per 100,000 population. 1 in 107 females are at risk of developing gall bladder cancer in this population.

- Of the total cancer cases registered, 2.4% of cases are in paediatric age group. The age adjusted incidence for boys is 72.7 per million and 39.9 per million for girls. The leading cancer sites in boys are lymphoid leukaemia, leukaemia unspecified, non-hodgkin lymphoma while in girls lymphoid leukaemia, kidney, and Hodgkin disease.

- 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. The incidence rate reported in the year 2020-2021 is low as compare to 2018-2019.

- Varanasi PBCR has submitted the data for the years 2017, 2018, 2019, 2020, and 2021 to National Cancer Registry Programme, Indian Council of Medical Research (ICMR), Bengaluru.

- Recent publication by ICMR in the JAMA Network Open used the Varanasi cancer registry data to estimate the cancer burden in India for the year 2024.

- PBCR has published nine research articles in the national and international journals. The registry staff has also presented scientific posters in the International Association of Cancer Registry (IACR) meeting 2024 held at Beijing, China (5 – 7 November 2024).

- 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 timely treatment.

- As the tobacco-related cancers 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 cancer control activities.

- The cancer registry will act as a foundation for epidemiological studies of common cancer in these areas.

# 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 2017 and 2018-2019 reports. 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 2020 and 2021.**

**Population covered**

The cancer registry covers the eight blocks and urban areas of the district – Arajiline, Baragaon, Chiraigaon, Cholapur, Harhua, Kashividyapeeth, Pindra, and Sewapuri blocks including urban areas 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. Approximately 53% population of the district is covered under rural area.**

**Registration method**

Trained field investigators of the cancer registry regularly visit the villages as well as different hospitals, pathology laboratories, diagnostic centres, 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 1,40,000 cancer patients have been registered.

**Results**

This report is based on the cancer registry data for the years 2020 and 2021. In the year 2020 and 2021, the cancer registry recorded 4,446 incidence cancer cases including 2,514 males (56.5%) and 1,932 females (43.5%). The age-adjusted incidence rate for males is 67.7 per 100,000 population and for females, it is 54.7 per 100,000 population. The cumulative risk for the age group 0-74 in males is 7.7% **(1 in 13 males are at risk of developing cancer)** and in females, it is 6.1% **(1 in 16 females are at risk of developing cancer)**.

For the years 2020 and 2021, the cancer registry recorded 3,045 cancer deaths including 1,739 deaths among males (57.1%) and 1,306 deaths among females (42.9%). The age-adjusted mortality rate for males is 47.3 per 100,000 population and for females, it is 37.3 per 100,000 population. The cumulative risk of death due to cancer in the age group 0-74 in males is 5.6% and for females, it is 4.3% **(1 in 18 males and 1 in 23 females are at risk of death due to cancer)**.

**Leading cancer sites**

Among males; mouth, tongue, gallbladder, lung, prostate, liver, NHL, larynx, oesophagus and stomach are the leading cancer sites. Among females; breast, gallbladder, cervix uteri, ovary, lung, mouth, liver, corpus uteri, stomach, and tongue 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 2020-2021**

| ICD 10 | Sites | Number | % | CR | AAR | TR | Risk 1 in |
|---|---|---|---|---|---|---|---|
| C03-C06 | Mouth | 665 | 26.5 | 15.5 | 17.8 | 45.8 | 51 |
| C01-C02 | Tongue | 225 | 8.9 | 5.2 | 5.8 | 13.7 | 172 |
| C23-C24 | Gall bladder | 163 | 6.5 | 3.8 | 4.5 | 9.5 | 188 |
| C33-C34 | Trachea, bronchus and lung | 150 | 6.0 | 3.5 | 4.2 | 6.1 | 185 |
| C61 | Prostate | 113 | 4.5 | 2.6 | 3.2 | 3.6 | 231 |

**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 2020-2021**

| ICD 10 | Sites | Number | % | CR | AAR | TR | Risk 1 in |
|---|---|---|---|---|---|---|---|
| C50 | Breast | 449 | 23.2 | 11.4 | 12.4 | 29.7 | 76 |
| C23-C24 | Gall bladder | 274 | 14.2 | 7.0 | 7.9 | 18.1 | 107 |
| C53 | Cervix uteri | 172 | 8.9 | 4.4 | 5.0 | 12.1 | 179 |
| C56 | Ovary | 143 | 7.4 | 3.6 | 3.9 | 9.4 | 252 |
| C33-C34 | Trachea, bronchus and lung | 86 | 4.5 | 2.2 | 2.5 | 5.0 | 315 |

**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 as improvement in the infrastructure. The percentage of primary unknown cases has slightly decreased for males from 3.9 % to 2.4% and in females from 1.4 to 1.6 %, no major change was observed as compared to the year 2018-2019.

**Late registration of 2018-2019 incidence cases**

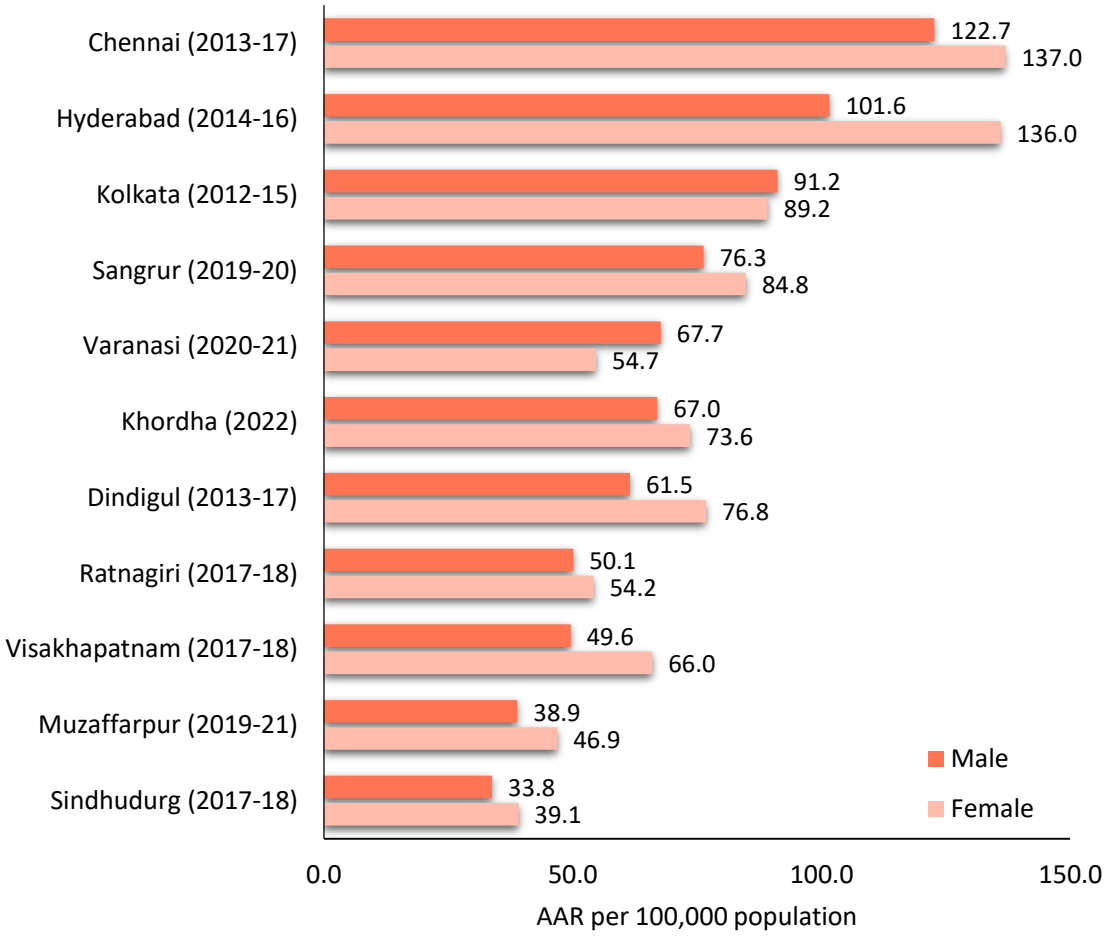
In the second-year report of the population-based cancer registry, we have noted the under-reporting of the cases. Few private laboratories, as well as leading hospitals, were reluctant in providing the cancer patient's data in the Varanasi district. Due to continuous interaction with the community leaders/patient's relatives to gather the information, we have registered a few cancer cases after the report (2018-2019) release, which will be considered as late registration.

The registry has noted late-registration incidence cases for the year 2018-2019 after removing few cases during data checking. The revised age-adjusted incidence rate for males for the year 2018-2019 was 74.4 and for females, it was 60.2 per 100,000.

**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.

**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 76.5 and 59.3 per 100,000 population respectively. For females, the cancer incidence rate in urban and rural areas is 62.5 and 48.7 per 100,000 population. The urban area cancer incidence rates are higher compared to the rural area. Mouth cancer is the leading cancer site in both urban and rural males with an age-adjusted incidence rate 21.6 and 14.2 per 100,000 population respectively. For females, breast, gall bladder and cervix uteri are the top three leading cancer sites. The breast cancer incidence for rural areas is low 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 burden**

The Varanasi PBCR is monitoring the paediatric cancer burden in the district. Registry has maintained the data of the paediatric cancer cases as per the ICCC-3 standard. The paediatric cancer incidence in boys is 72.7 per million and for girls it is 39.9 per million**.**

**Cancer control activities in the Varanasi district/ recommendation**

The cancer registry data has estimated the risk of developing cancer in males 7.7% and in females 6.1%. 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 51.2% 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 adulterated 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 cancer control activities. 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 $Km^2$. The population of the state is 199,812,341 [(1)]. 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 $Km^2$; it is the highest populated state in India.

The state is spread over an area of about 240,928 $Km^2$ making it the $5^{th}$ 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<br>(i) Rural-area<br>(ii) Urban area | $Km^2$ | **240,928.0**<br>2,33,365.7<br>7,562.3 |
| 2. | Total population (Census 2011)<br>(i) Urban population<br>(ii) Rural Population | Number | **199,812,341**<br>44,495,063 (22.3%)<br>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 [(2)].

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 18$^{th}$ 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 [(1).]

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.

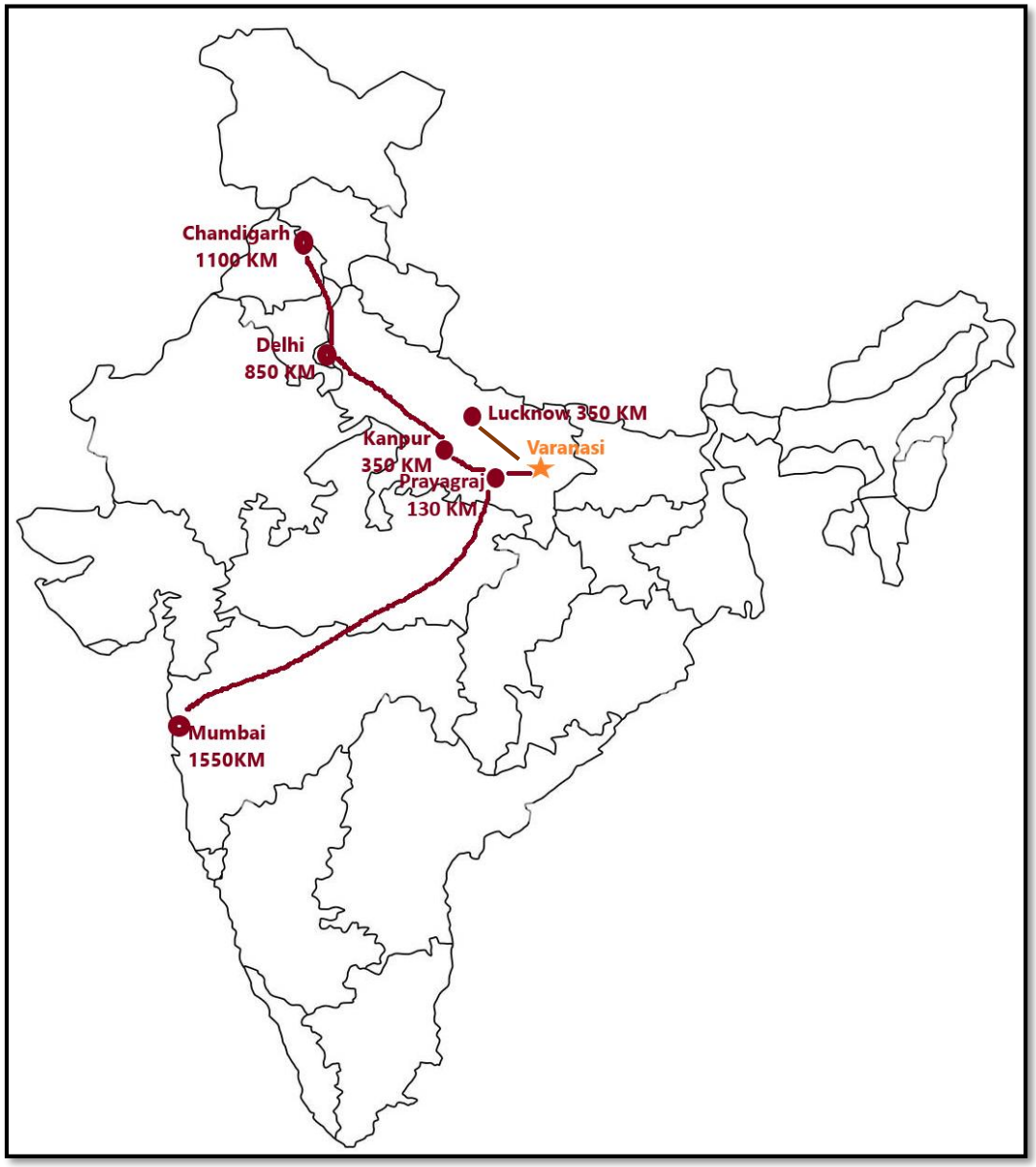
**Table 3: Major Health Facilities in Varanasi district**

| 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 1,40,000 cancer patients have been registered. The hospital is listed in the various government-sponsored schemes for cancer treatment.**

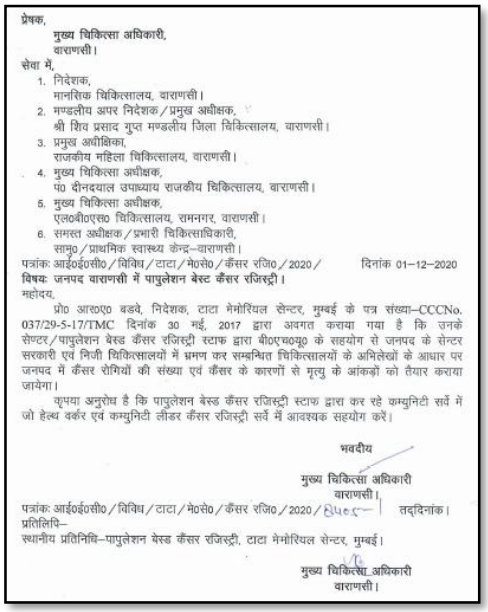
**The cancer treatment facility is also available in SS Hospital, BHU Varanasi. The patient from Varanasi district travel to Prayagraj, Lucknow, Kanpur, Delhi, Chandigarh, and Mumbai for cancer treatment. The distance from Varanasi to different cancer treatment centres is presented in figure 2.**

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



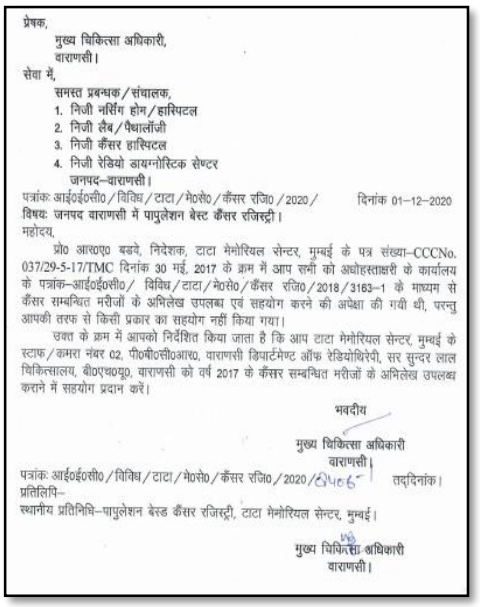
# 3. Administrative orders

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.



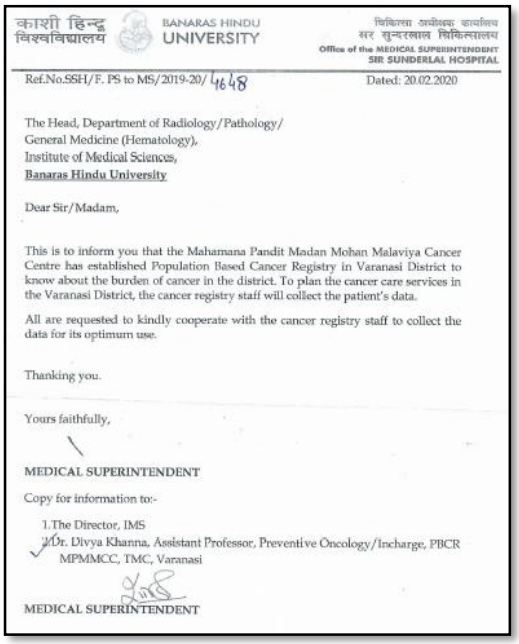
प्रेषक,
मुख्य चिकित्सा अधिकारी,
वाराणसी।
सेवा में,
1. निदेशक,
मानसिक चिकित्सालय, वाराणसी।
2. मण्डलीय अपर निदेशक/प्रमुख अधीक्षक,
श्री शिव प्रसाद गुप्त मण्डलीय जिला चिकित्सालय, वाराणसी।
3. प्रमुख अधीक्षिका,
राजकीय महिला चिकित्सालय, वाराणसी।
4. मुख्य चिकित्सा अधीक्षक,
पं० दीनदयाल उपाध्याय राजकीय चिकित्सालय, वाराणसी।
5. मुख्य चिकित्सा अधीक्षक,
एल०बी०एस० चिकित्सालय, रामनगर, वाराणसी।
6. समस्त अधीक्षक/प्रभारी चिकित्साधिकारी,
सामू०/प्राथमिक स्वास्थ्य केन्द्र–वाराणसी।
पत्रांक: आई०ई०सी०/विविध/टाटा/मे०से०/कैंसर रजि०/2020/ दिनांक 01–12–2020
**विषयः जनपद वाराणसी में पापुलेशन बेस्ट कैंसर रजिस्ट्री।**
महोदय,
प्रो० आर०ए० बडवे, निदेशक, टाटा मेमोरियल सेन्टर, मुम्बई के पत्र संख्या–CCCNo. 037/29-5-17/TMC दिनांक 30 मई, 2017 द्वारा अवगत कराया गया है कि उनके सेण्टर/पापुलेशन बेस्ड कैंसर रजिस्ट्री स्टाफ द्वारा बी०एच०यू० के सहयोग से जनपद के सेन्टर सरकारी एवं निजी चिकित्सालयों में भ्रमण कर सम्बन्धित चिकित्सालयों के अभिलेखों के आधार पर जनपद में कैंसर रोगियों की संख्या एवं कैंसर के कारणों से मृत्यु के आंकड़ों को तैयार कराया जायेगा।
कृपया 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: आई०ई०सी०/विविध/टाटा/मे०से०/कैंसर रजि०/2020/ तद्दिनांक।
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/हास्पिटल
2. निजी लैब/पैथालॉजी
3. निजी कैंसर हास्पिटल
4. निजी रेडियो डायग्नोस्टिक सेण्टर
जनपद–वाराणसी।
पत्रांक: आई०ई०सी०/विविध/टाटा/मे०से०/कैंसर रजि०/2020/ दिनांक 01–12–2020
**विषयः जनपद वाराणसी में पापुलेशन बेस्ट कैंसर रजिस्ट्री।**
महोदय,
प्रो० आर०ए० बडवे, निदेशक, टाटा मेमोरियल सेन्टर, मुम्बई के पत्र संख्या–CCCNo. 037/29-5-17/TMC दिनांक 30 मई, 2017 के क्रम में आप सभी को अधोहस्ताक्षरी के कार्यालय के पत्रांक–आई०ई०सी०/ विविध/टाटा/मे०से०/कैंसर रजि०/2018/3163–1 के माध्यम से कैंसर सम्बन्धित मरीजों के अभिलेख 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, पी०बी०सी०आई०, वाराणसी डिपार्टमेण्ट ऑफ रेडियोथिरेपी, सर सुन्दर लाल चिकित्सालय, बी०एच०यू०, वाराणसी को वर्ष 2017 के कैंसर सम्बन्धित मरीजों के अभिलेख उपलब्ध कराने में सहयोग प्रदान करें।
भवदीय
मुख्य चिकित्सा अधिकारी
वाराणसी।
पत्रांक: आई०ई०सी०/विविध/टाटा/मे०से०/कैंसर रजि०/2020/ तद्दिनांक।
प्रतिलिपि–
स्थानीय प्रतिनिधि–पापुलेशन बेस्ड कैंसर रजिस्ट्री, टाटा मेमोरियल सेन्टर, मुम्बई।
मुख्य चिकित्सा अधिकारी
वाराणसी।

**CMO letter for private centres**



काशी हिन्दू विश्वविद्यालय BANARAS HINDU UNIVERSITY
चिकित्सा अधीक्षक कार्यालय
सर सुन्दरलाल चिकित्सालय
Office of the MEDICAL SUPERINTENDENT
SIR 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 MPMMCC, 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.[1]

**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: 2020-2021**

The registry population for 2020 and 2021 was estimated by the ratio method by using the 2001 to 2011 census population. As a result, average population of year 2020-2021 is 41,16,181 in which 21,49,860 males (52.2%) and 19,66,319 females (47.8%). The estimated average population for 2020-2021 is presented in table 5. The population pyramid of the Varanasi district is shown in figure 3.

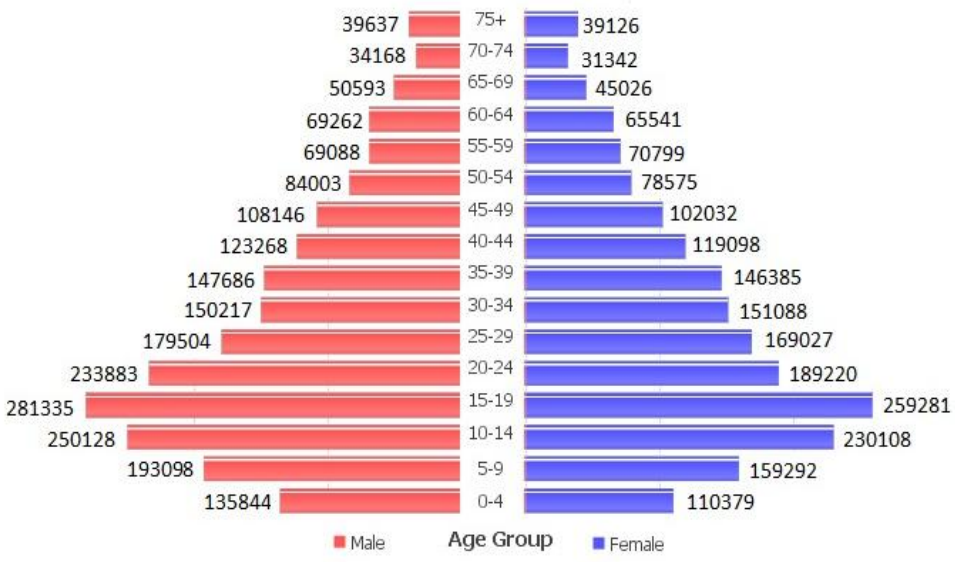



**Figure 3: Population pyramid of Varanasi district 2020-2021**

**Table 5: Estimated average population of Varanasi district: 2020-2021**

| Age Group | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| 00-04 | 135844 | 6.3 | 110379 | 5.6 | 246222 | 6.0 |
| 05-09 | 193098 | 9.0 | 159292 | 8.1 | 352390 | 8.6 |
| 10-14 | 250128 | 11.6 | 230108 | 11.7 | 480236 | 11.7 |
| 15-19 | 281335 | 13.1 | 259281 | 13.2 | 540616 | 13.1 |
| 20-24 | 233883 | 10.9 | 189220 | 9.6 | 423103 | 10.3 |
| 25-29 | 179504 | 8.3 | 169027 | 8.6 | 348531 | 8.5 |
| 30-34 | 150217 | 7.0 | 151088 | 7.7 | 301305 | 7.3 |
| 35-39 | 147686 | 6.9 | 146385 | 7.4 | 294071 | 7.1 |
| 40-44 | 123268 | 5.7 | 119098 | 6.1 | 242367 | 5.9 |
| 45-49 | 108146 | 5.0 | 102032 | 5.2 | 210178 | 5.1 |
| 50-54 | 84003 | 3.9 | 78575 | 4.0 | 162579 | 3.9 |
| 55-59 | 69088 | 3.2 | 70799 | 3.6 | 139887 | 3.4 |
| 60-64 | 69262 | 3.2 | 65541 | 3.3 | 134803 | 3.3 |
| 65-69 | 50593 | 2.4 | 45026 | 2.3 | 95620 | 2.3 |
| 70-74 | 34168 | 1.6 | 31342 | 1.6 | 65510 | 1.6 |
| 75+ | 39637 | 1.8 | 39126 | 2.0 | 78763 | 1.9 |
| **Total** | **21,49,860** | **100** | **19,66,319** | **100** | **41,16,181** | **100** |

# 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 inquires 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) [3]. 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.[4]

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.

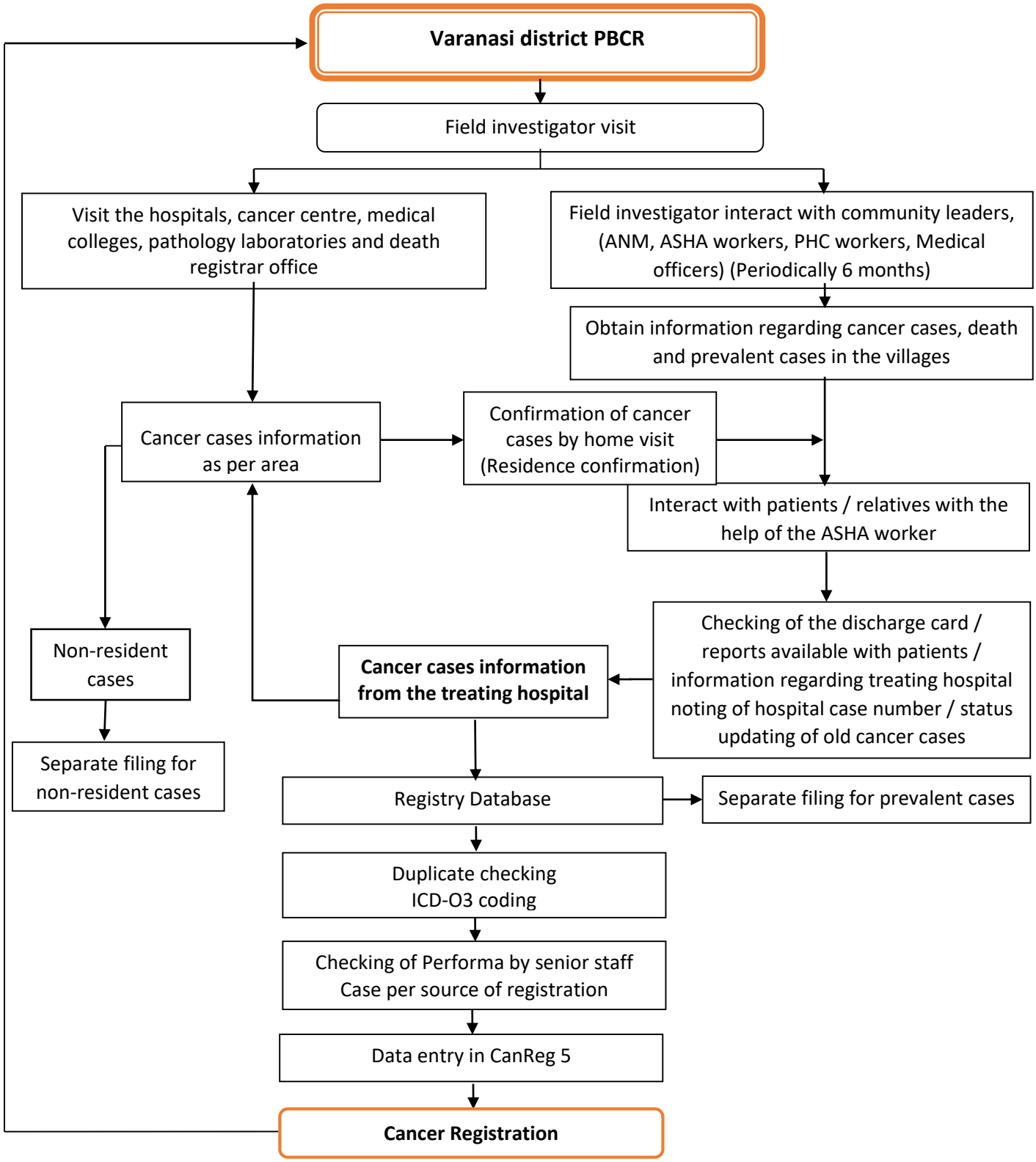
**Table 6: Different sources of data collection**

| Sr. No. | Institution name | Place |
|---|---|---|
| 1 | Sir Sunderlal Hospital, Banaras Hindu University | Varanasi |
| 2 | Homi Bhabha Cancer Hospital & MPMMCC | Varanasi |
| 3 | Anant Hospital | 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 |
| 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 |
| 25 | Dabur Oncquest, Lanka | 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 Government 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 Sciences | 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 2020 and 2021, registry staff interacted with more than 7,700 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 | 120 | 100 | 6 | 43 | 0 | 110 | 610 | 932 | 4 | 1805 |
| Arajiline | 220 | 130 | 1 | 5 | 1 | 46 | 374 | 494 | 2 | 1053 |
| Baragaon | 139 | 80 | 1 | 5 | 1 | 43 | 232 | 299 | 2 | 663 |
| Chiraigaon | 116 | 76 | 1 | 5 | 1 | 39 | 244 | 320 | 7 | 693 |
| Cholapur | 148 | 89 | 1 | 3 | 1 | 37 | 210 | 274 | 3 | 618 |
| Harhua | 142 | 75 | 1 | 2 | 1 | 42 | 215 | 297 | 2 | 635 |
| Kashividyapeeth | 88 | 66 | 1 | 2 | 1 | 49 | 296 | 530 | 4 | 949 |
| Pindra | 191 | 104 | 1 | 2 | 1 | 49 | 292 | 318 | 1 | 768 |
| Sewapuri | 185 | 87 | 1 | 3 | 0 | 46 | 240 | 226 | 4 | 607 |
| **Total** | **1349** | **807** | **14** | **70** | **7** | **461** | **2,713** | **3,690** | **29** | **7,791** |

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

Recently 84 gram merge in Municipal Corporation and NCT Sujabad & Village Domri merge to create nagar panchayat Sujabad. (i.e. Ward 100, NCT 15, Nagar Panchyat 2, cantonment 2, and Nagar Parisad 1)

**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 cancers. 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 during**

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

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

HBCH/ MPMMCC served as a primary source of information for identifying newly diagnosed cancer cases whereas village visits as a major source to update the vital status of the cancer patients. More than 70% of incidence cases are registered from HBCH/ MPMMCC as the first source of information. Also, the registry has registered 21.2% incidence cases from village/ house visit due to effective interaction with the community. HBCH/ MPMMCC 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.

**Table 9: Cancer cases information by the first source of cancer registration: 2020-2021**

| Sr. No. | Source of registration | Male | % | Female | % | Total | % |
|---|---|---|---|---|---|---|---|
| 1 | Homi Bhabha Cancer Hospital/ MPMMCC, Varanasi | 1833 | 72.9 | 1418 | 73.4 | 3251 | 73.1 |
| 2 | Village visit & Field visit | 538 | 21.4 | 396 | 20.5 | 934 | 21.0 |
| 3 | Dr. Lal Pathology Centre, Varanasi | 37 | 1.5 | 43 | 2.2 | 80 | 1.8 |
| 4 | Apex Hospital, Varanasi | 48 | 1.9 | 29 | 1.5 | 77 | 1.7 |
| 5 | Tata Memorial Centre, Mumbai | 31 | 1.2 | 18 | 0.9 | 49 | 1.1 |
| 6 | Kamala Nehru Memorial Hospital, Allahabad | 3 | 0.1 | 5 | 0.3 | 8 | 0.2 |
| 7 | Popular Hospital, Varanasi | 4 | 0.2 | 3 | 0.2 | 7 | 0.2 |
| 8 | Prakash Pathology, Varanasi | 1 | 0.0 | 3 | 0.2 | 4 | 0.1 |
| 9 | Other | 19 | 0.8 | 17 | 0.9 | 36 | 0.8 |
| **Total** | | **2,514** | **100** | **1,932** | **100** | **4,446** | **100** |

# 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 2020-2021, 4,446 incident cancer cases 2,514 males (56.5%) and 1,932 females (43.5%) have been registered by PBCR Varanasi. For the same period, 3,045 cancer deaths have been registered (1,739 males (57.1%) and 1,306 females (42.9%). The overall mortality to incidence ratio is 0.68 (males 0.69 and females 0.68). The MI ratio is low as compare to other established rural PBCRs in India this may be due under reporting during COVID-19 pandemic. [5]

**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 2020-2021, PBCR has registered 71 cancer cases in boys and 34 in girls. The age-specific rates reported the paediatric cancer are mentioned in table 10.

**Table 10: Incidence rate of paediatric cancer cases in Varanasi district: 2020-2021**

| Age group | Boys | | Girls | |
|---|---|---|---|---|
| | Number of Cases | Age-Specific Rate | Number of Cases | Age-Specific Rate |
| 0 – 4 | 31 | 114.1 | 13 | 58.9 |
| 5 – 9 | 21 | 54.4 | 10 | 31.4 |
| 10 – 14 | 19 | 38.0 | 11 | 23.9 |
| **Age Adjusted Rate per 1,000,000 (AAR per million)** | **72.7** | | **39.9** | |

**The age-adjusted incidence rate for the paediatric age group (0-14) was 72.7 per million for boys and 39.9 per million for girls. As per the International Incidence of Childhood Cancer volume III, the incidence rate for girls is less than 60 per million.[6] 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 among girls. Of the total cases registered, 2.4% of them belong to paediatric cancer.**

The microscopic confirmation was 91.5% in boys and 85.3% in girls.

**Microscopic verification of the cases**

In the year 2020-2021, out of 2,513 male cases, 1,908 cases (75.9%) were diagnosed with microscopic verification. 9.8% of cases were diagnosed based on radiological findings and 4.8% of cases were diagnosed clinically. Around 9% cases were based on verbal autopsy i.e. relative's remark (eg. Primary site unknown cases).

In females, out of 1,926 cases, we have 1,441 cases (74.8%) diagnosed with microscopic verification. 12.7% and 3.9% of cases were diagnosed on radiological and clinically findings respectively.

**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 237 (9.4%) cases in males and 165 (8.5%) 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 2.7. Due to field interactions, the coverage is satisfactory.

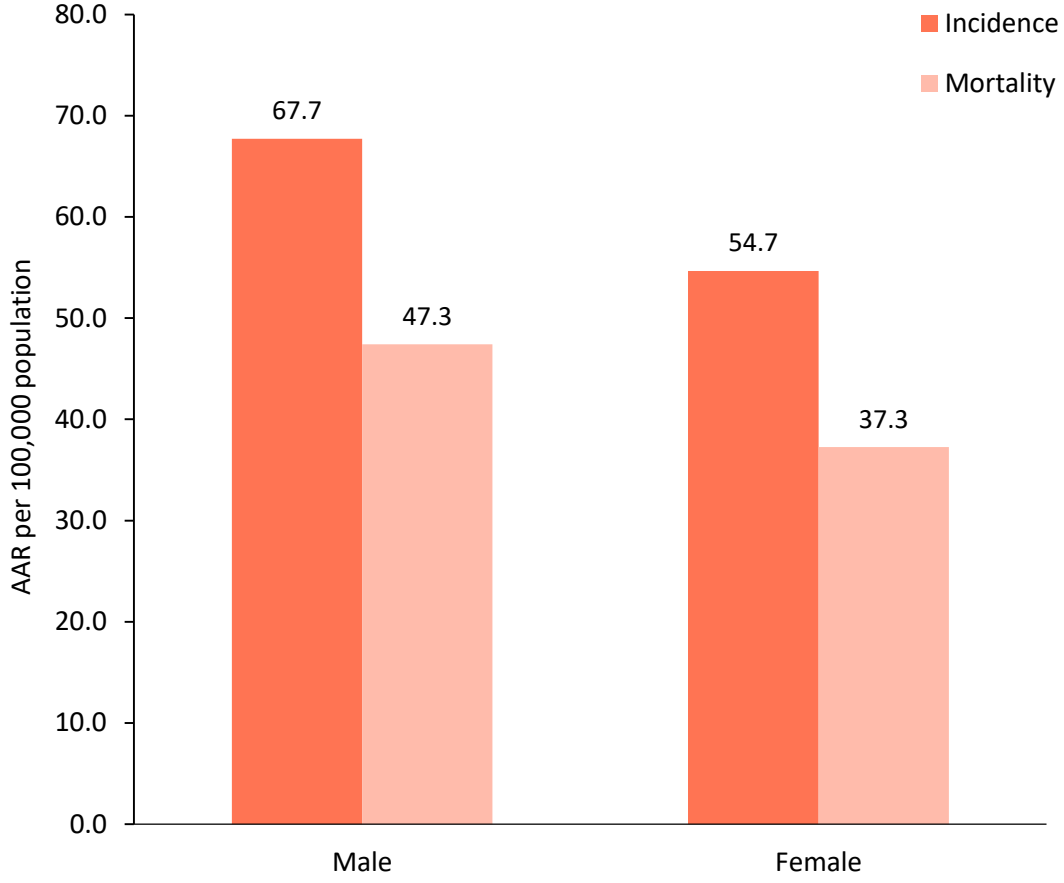
| Source | Number of cases confirm |
|---|---|
| Source 1 | 412 |
| Source 2 | 3212 |
| Source 3 | 5076 |
| Source 4 | 2388 |
| Source 5 | 525 |
| Source 6 | 150 |
| Source 7 | 42 |
| Source 8 | 16 |
| Source 9 | 9 |
| **Total sources** | **11,830** |
| **Per source of registration** | **2.7 (11,830/4,446)** |

# 9. Cancer incidence and mortality: all sites

In the year 2020-2021, the cancer registry registered 4,446 cancer cases. There were 2,514 male (56.5%) cases and 1,932 female (43.5%) cases. The age-adjusted incidence rate for males was 67.7 per 100,000 population and for females, it was 54.7 per 100,000 population.

In the year 2020-2021, the cancer registry registered 3,045 cancer deaths of which 1,739 were male (57.1%) deaths and 1,306 were female (42.9%) deaths. The age-adjusted mortality rate for males was 47.3 per 100,000 population and for females, it was 37.3 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: 2020-2021 (Varanasi district)**



# 10. Leading cancer sites by gender

Among males; mouth, tongue, gallbladder, lung, prostate, liver, non-hodgkin lymphoma, larynx, oesophagus, and stomach were the leading cancer sites. The top ten leading cancer sites for males are presented in figure 6. Among females; breast, gallbladder, cervix uteri, ovary, lung, mouth, liver, corpus uteri, stomach, and tongue 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: 2020-2021**

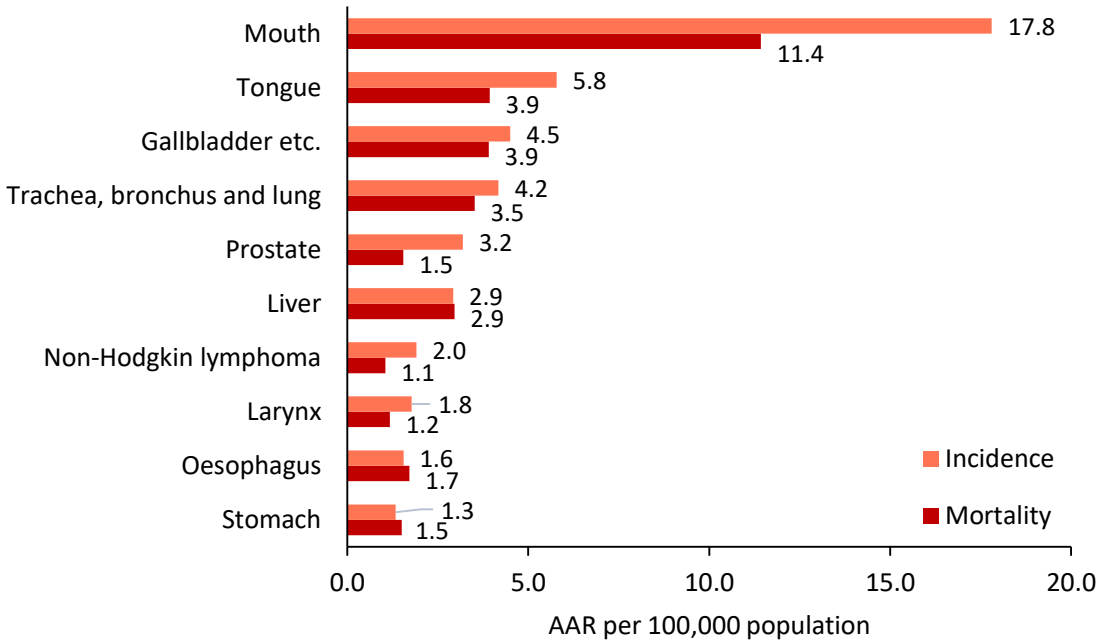
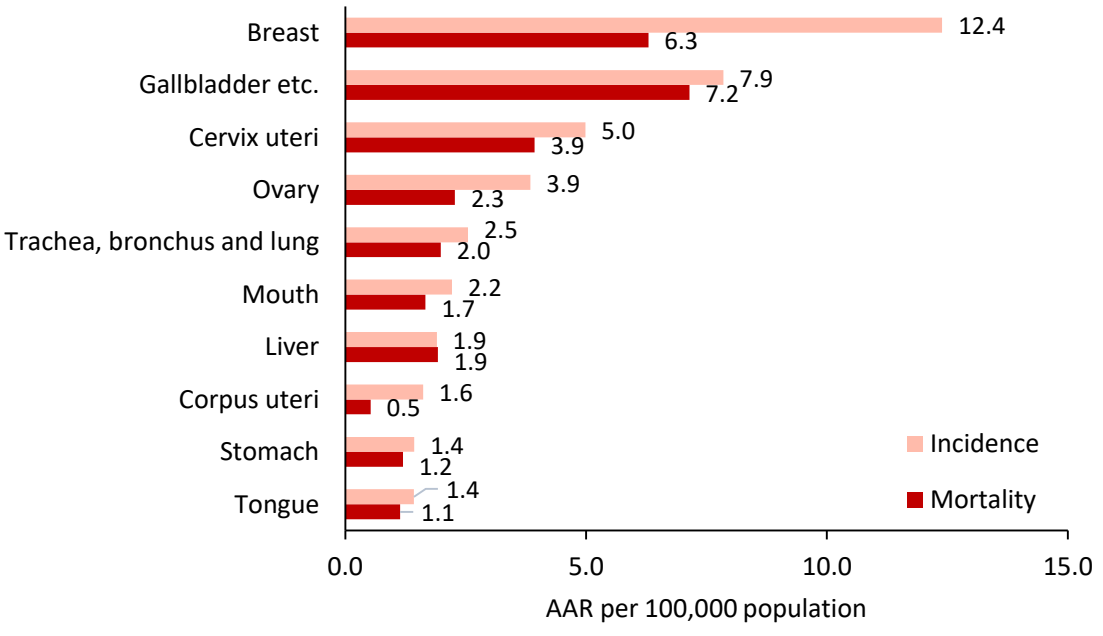



**Figure 7: Leading cancer sites in females: 2020-2021**



# 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 | 665 | 76 |
| % of total cases | 26.5 | 3.9 |
| Crude Incidence Rate per 100,000 | 15.5 | 1.9 |
| **Age-Adjusted Incidence Rate per 100,000** | **17.8** | **2.2** |
| Truncated Rate per 100,000 | 45.8 | 5.5 |

**Figure 8: Age-specific incidence rate of cancer of mouth: 2020-2021 (Varanasi district)**

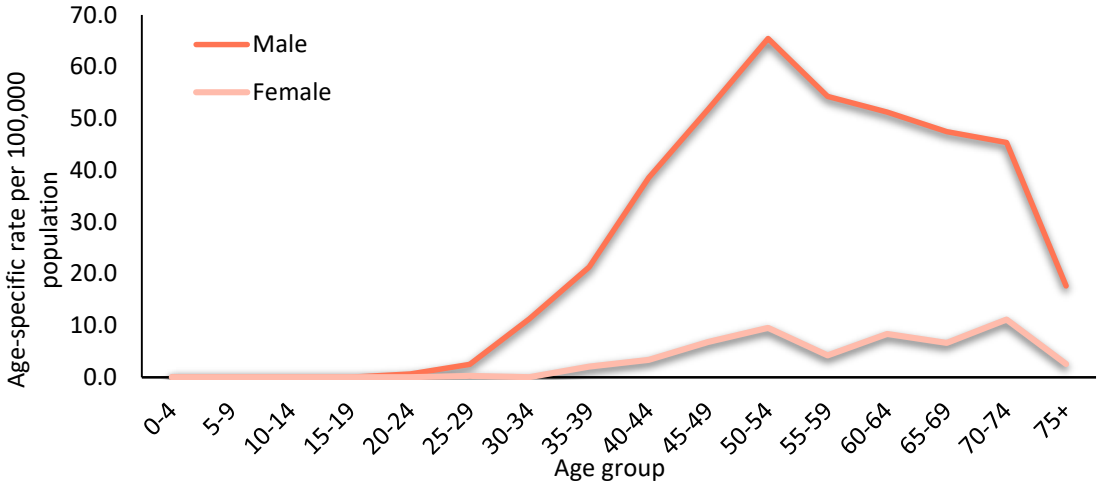
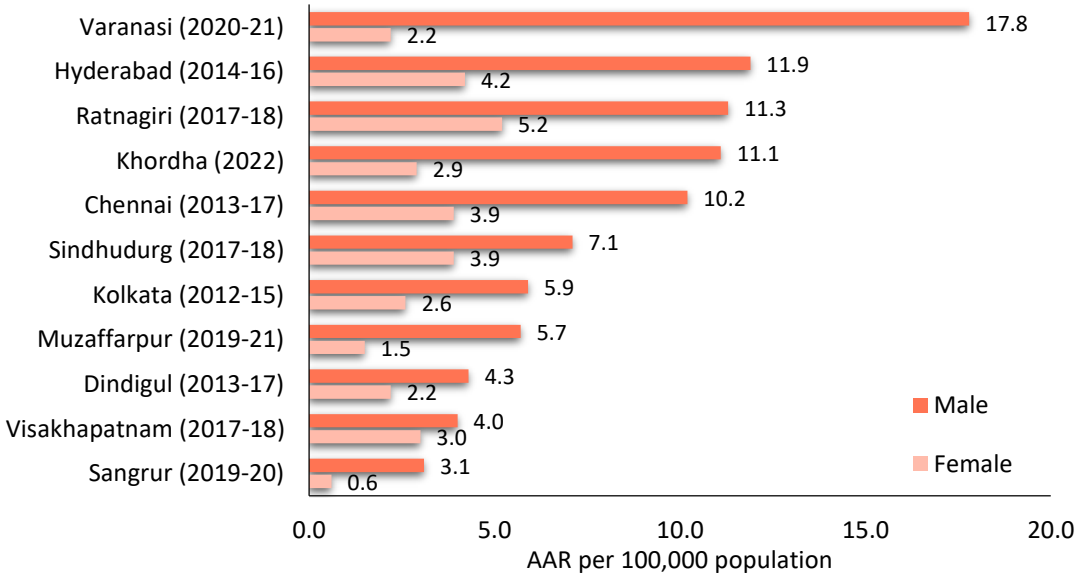



**Figure 9: Comparison of mouth cancer incidence rate with other Indian registries**



## Cancer of tongue (C01-C02)

| | Male | Female |
|---|---|---|
| Number of cases | 225 | 50 |
| % of total cases | 8.9 | 2.6 |
| Crude Incidence Rate per 100,000 | 5.2 | 1.3 |
| **Age-Adjusted Incidence Rate per 100,000** | **5.8** | **1.4** |
| Truncated Rate per 100,000 | 13.7 | 3.1 |

**Figure 10: Age-specific incidence rate of cancer of tongue: 2020-2021 (Varanasi district)**

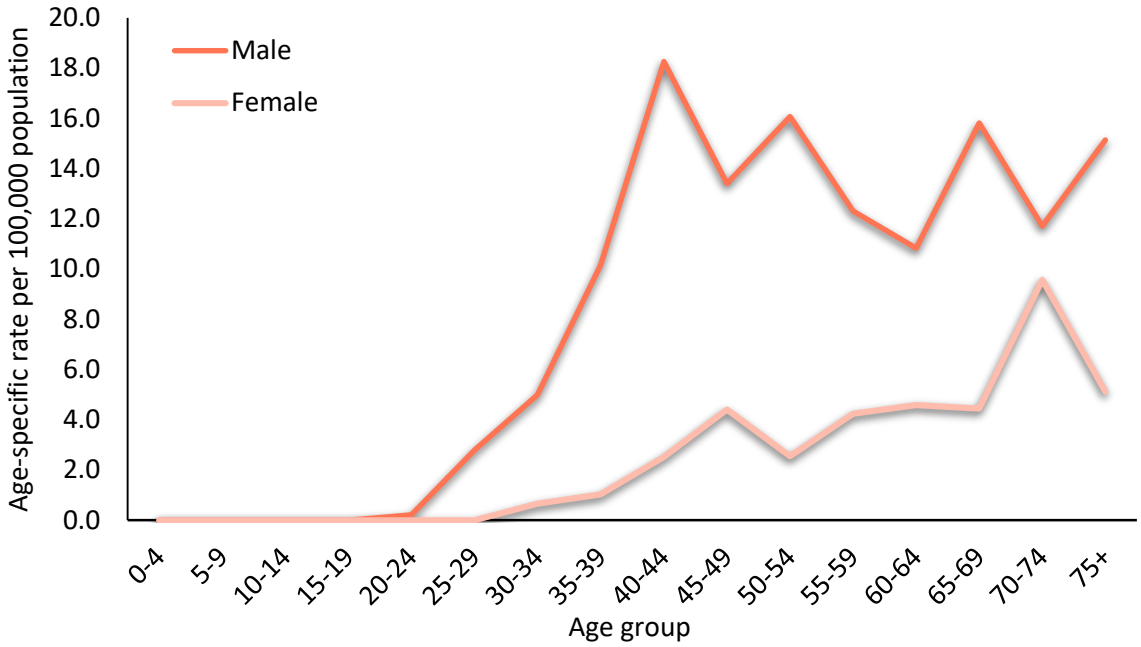
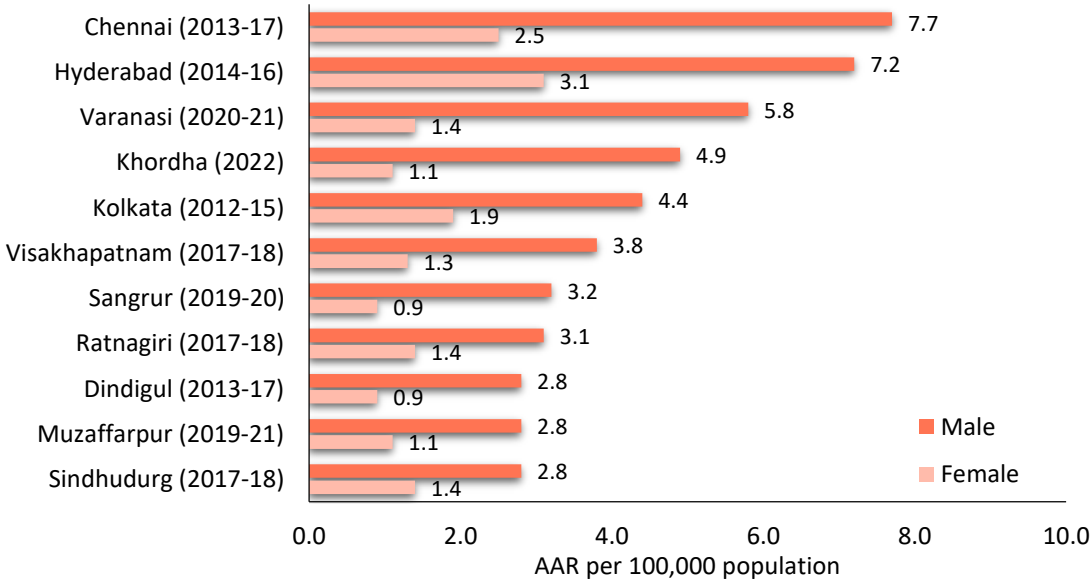



**Figure 11: Comparison of tongue cancer incidence rate with other Indian registries**



## Cancer of gall bladder (C23-C24)

| | Male | Female |
|---|---|---|
| Number of cases | 163 | 274 |
| % to total cases | 6.5 | 14.2 |
| Crude Incidence Rate per 100,000 | 3.8 | 7.0 |
| **Age Adjusted Incidence Rate per 100,000** | **4.5** | **7.9** |
| Truncated Rate per 100,000 | 9.5 | 18.1 |

**Figure 12: Age-specific incidence rate of cancer of gall bladder: 2020-2021 (Varanasi district)**

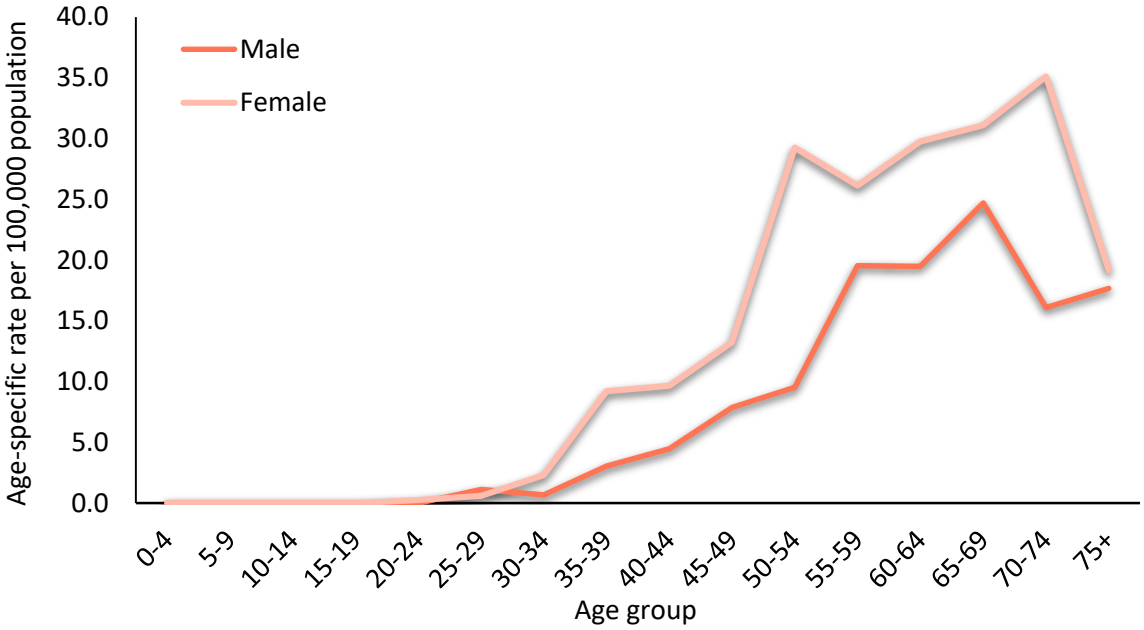
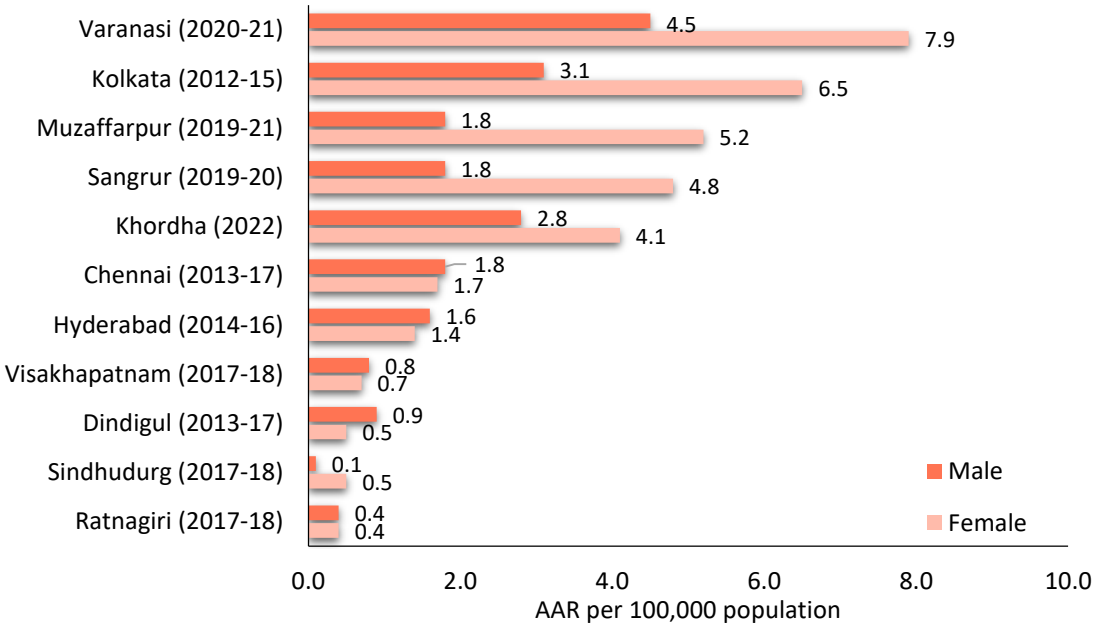



**Figure 13: Comparison of gall bladder cancer incidence rate with other Indian registries**



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

| | Male | Female |
|---|---|---|
| Number of cases | 150 | 86 |
| % to total cases | 6.0 | 4.5 |
| Crude Incidence Rate per 100,000 | 3.5 | 2.2 |
| **Age Adjusted Incidence Rate per 100,000** | **4.2** | **2.5** |
| Truncated Rate per 100,000 | 6.1 | 5.0 |

**Figure 14: Age-specific incidence rate of cancer of trachea, bronchus and lung: 2020-2021 (Varanasi district)**

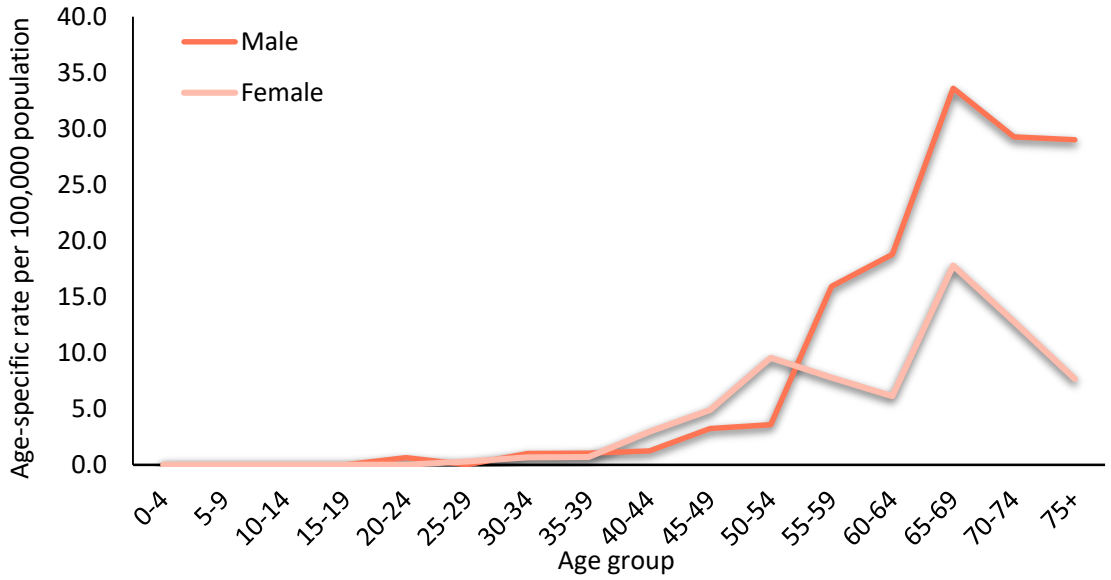
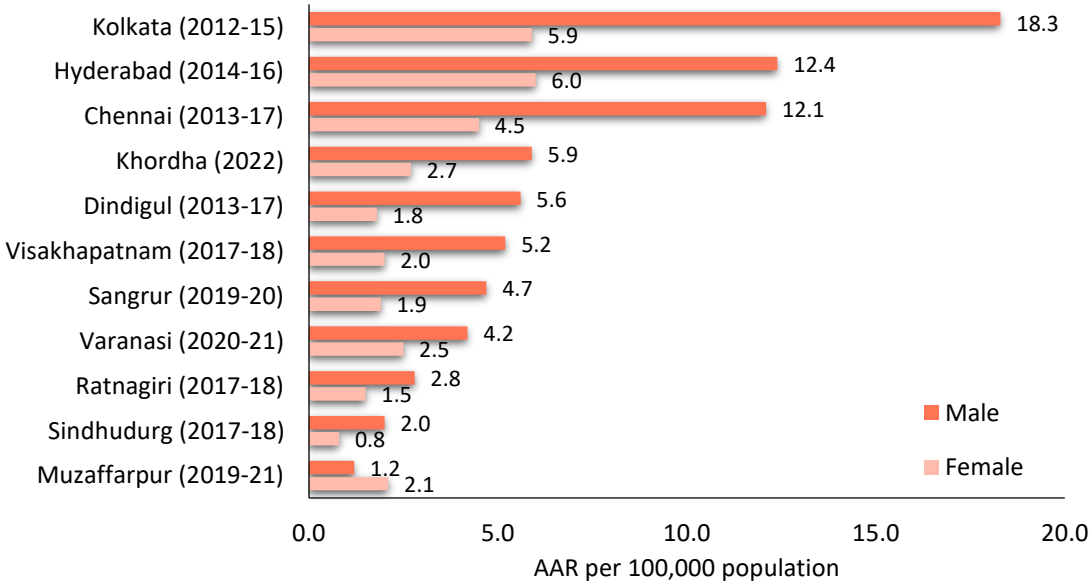



**Figure 15: Comparison of trachea, bronchus and lung cancer incidence rate with other Indian registries**



## Cancer of liver (C22)

| | Male | Female |
|---|---|---|
| Number of cases | 106 | 64 |
| % of total cases | 4.2 | 3.3 |
| Crude Incidence Rate per 100,000 | 2.5 | 1.6 |
| **Age-Adjusted Incidence Rate per 100,000** | **2.9** | **1.9** |
| Truncated Rate per 100,000 | 4.3 | 4.1 |

**Figure 16: Age-specific incidence rate of cancer of liver: 2020-2021 (Varanasi district)**

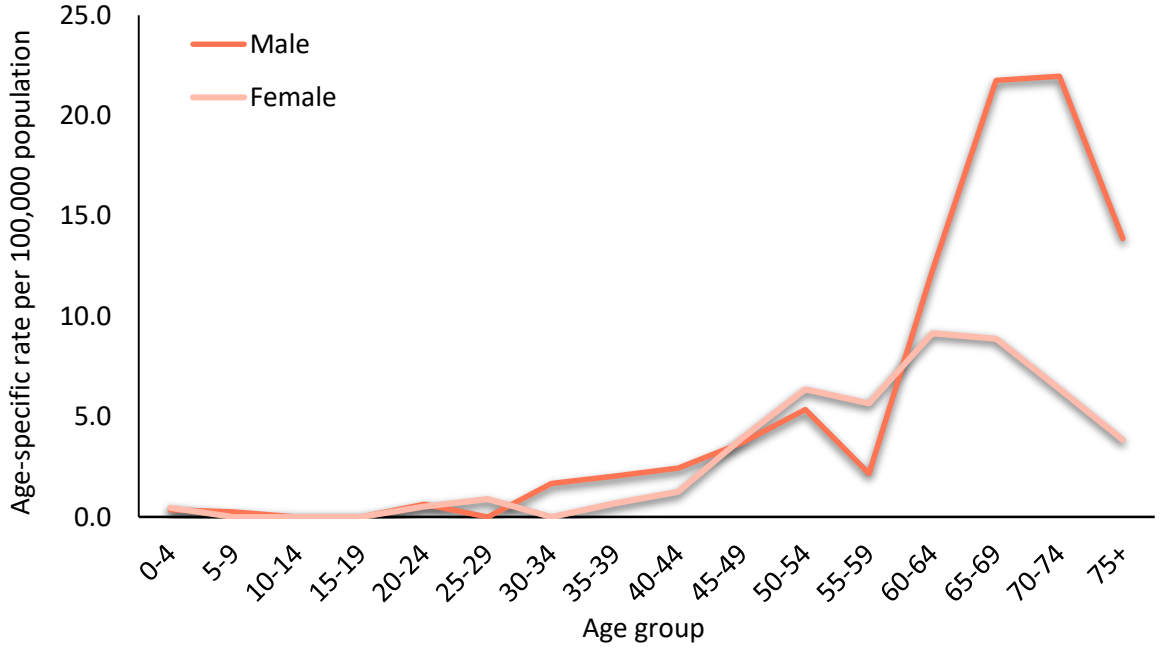
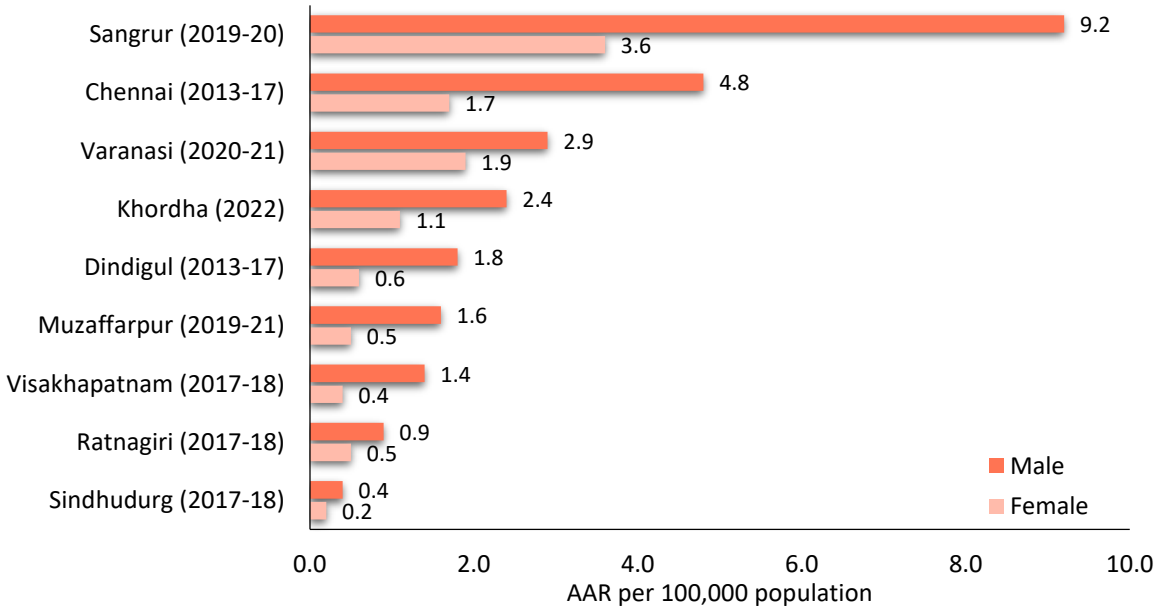



**Figure 17: Comparison of liver cancer incidence rate with other Indian registries**



## Cancer of prostate (C61)

| | |
|---|---|
| Number of cases | 113 |
| % of total cases | 4.5 |
| Crude Incidence Rate per 100,000 | 2.6 |
| **Age-Adjusted Incidence Rate per 100,000** | **3.2** |
| Truncated Rate per 100,000 | 3.6 |

**Figure 18: Age-specific incidence rate of cancer of prostate: 2020-2021 (Varanasi district)**

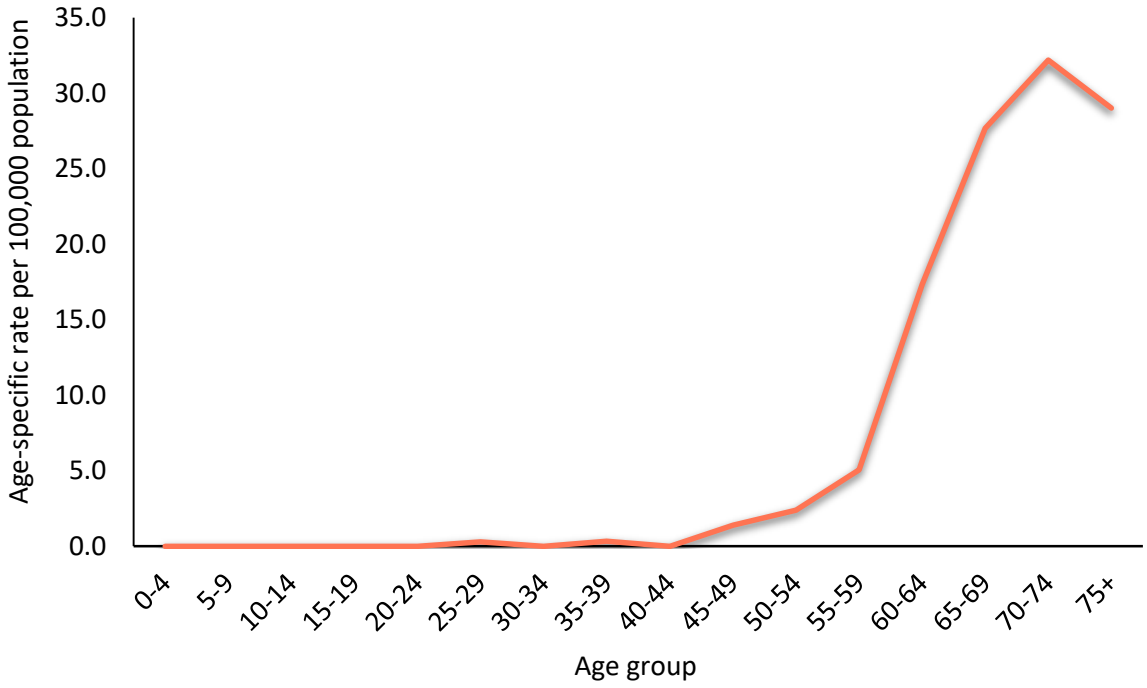
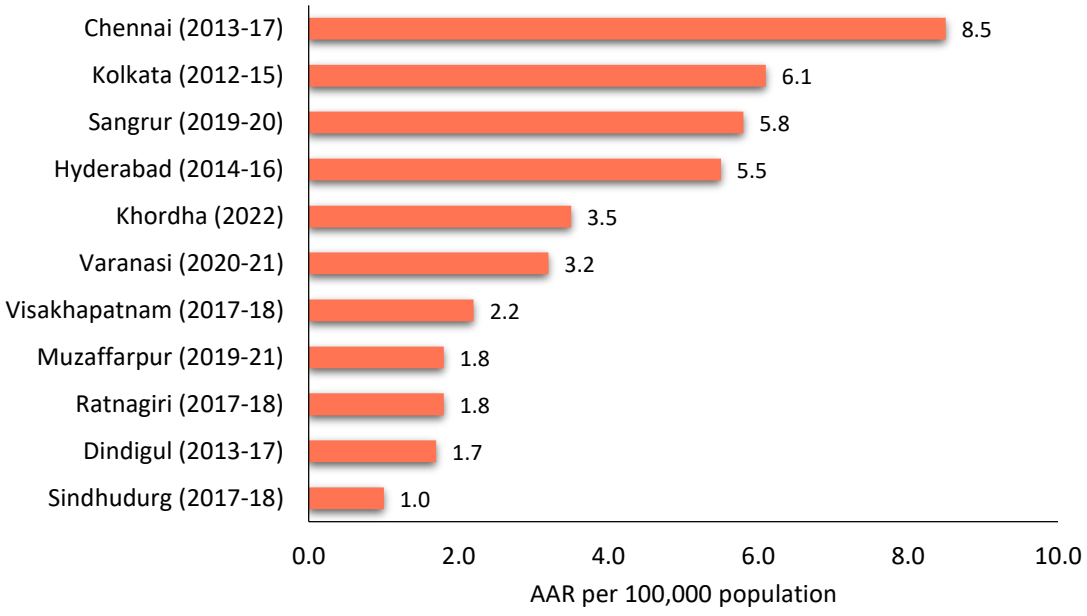



**Figure 19: Comparison of prostate cancer incidence rate with other Indian registries**



## Cancer of breast (C50)

| | Female |
|---|---|
| Number of cases | 449 |
| % of total cases | 23.2 |
| Crude Incidence Rate per 100,000 | 11.4 |
| **Age-Adjusted Incidence Rate per 100,000** | **12.4** |
| Truncated Rate per 100,000 | 29.7 |

**Figure 20: Age-specific incidence rate of cancer of breast: 2020-2021 (Varanasi district)**

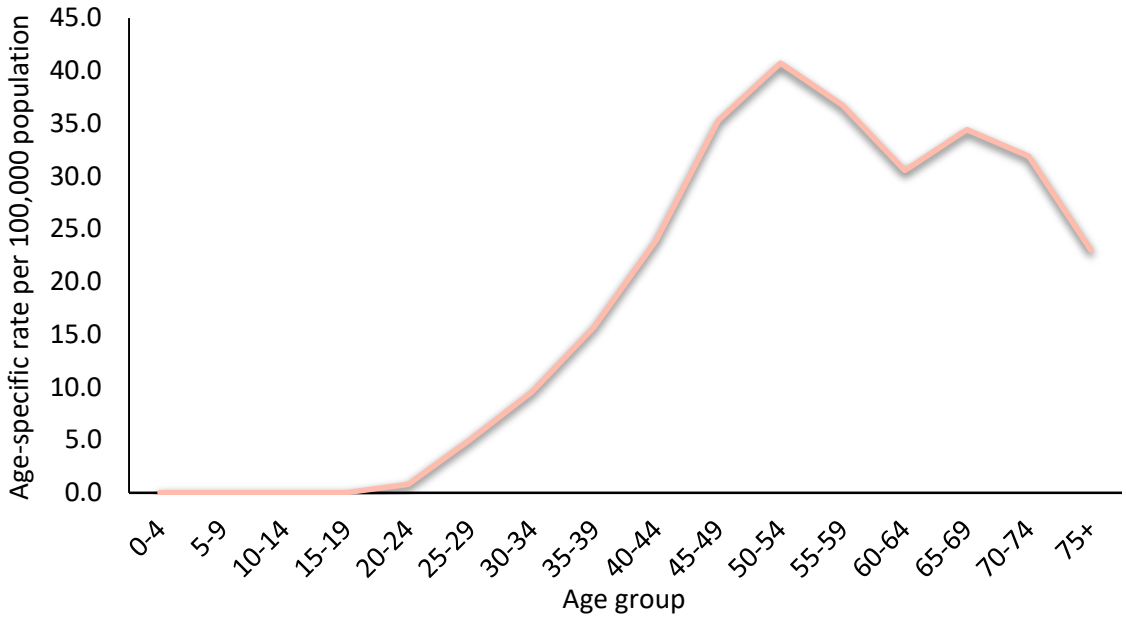
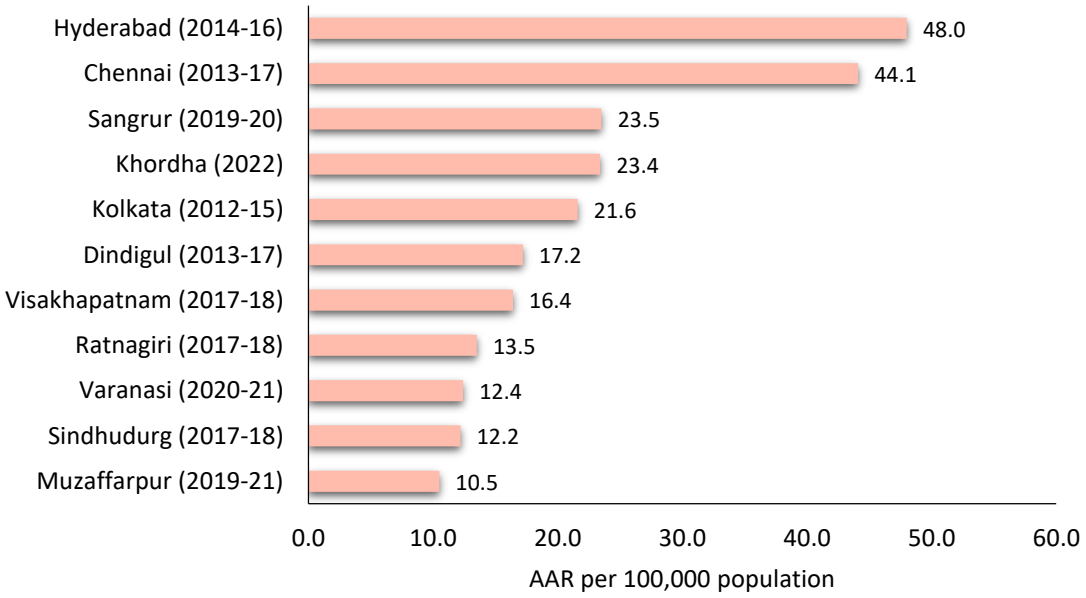



**Figure 21: Comparison of breast cancer incidence rate with other Indian registries**



## Cancer of cervix uteri (C53)

| | |
|---|---|
| Number of cases | 172 |
| % of total cases | 8.9 |
| Crude Incidence Rate per 100,000 | 4.4 |
| **Age-Adjusted Incidence Rate per 100,000** | **5.0** |
| Truncated Rate per 100,000 | 12.1 |

**Figure 22: Age-specific incidence rate of cancer of cervix uteri: 2020-2021 (Varanasi district)**

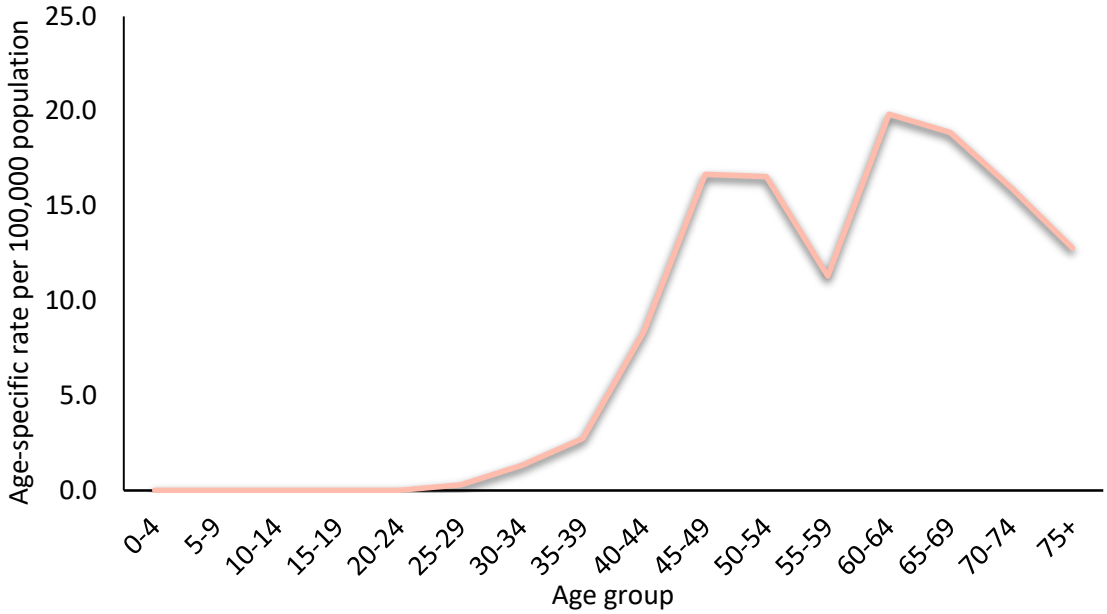
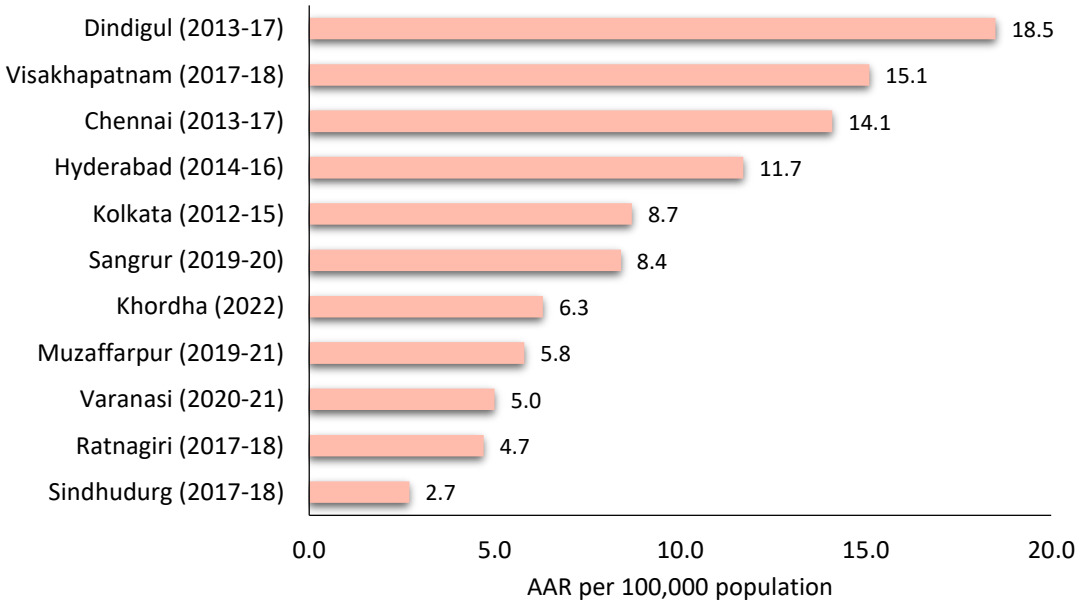



**Figure 23: Comparison of cervix uteri cancer incidence rate with other Indian registries**



## Cancer of ovary (C56)

| | |
|---|---|
| Number of cases | 143 |
| % to total cases | 7.4 |
| Crude Incidence Rate per 100,000 | 3.6 |
| **Age Adjusted Incidence Rate per 100,000** | **3.9** |
| Truncated Rate per 100,000 | 9.4 |

**Figure 24: Age-specific incidence rate of cancer of ovary: 2020-2021 (Varanasi district)**

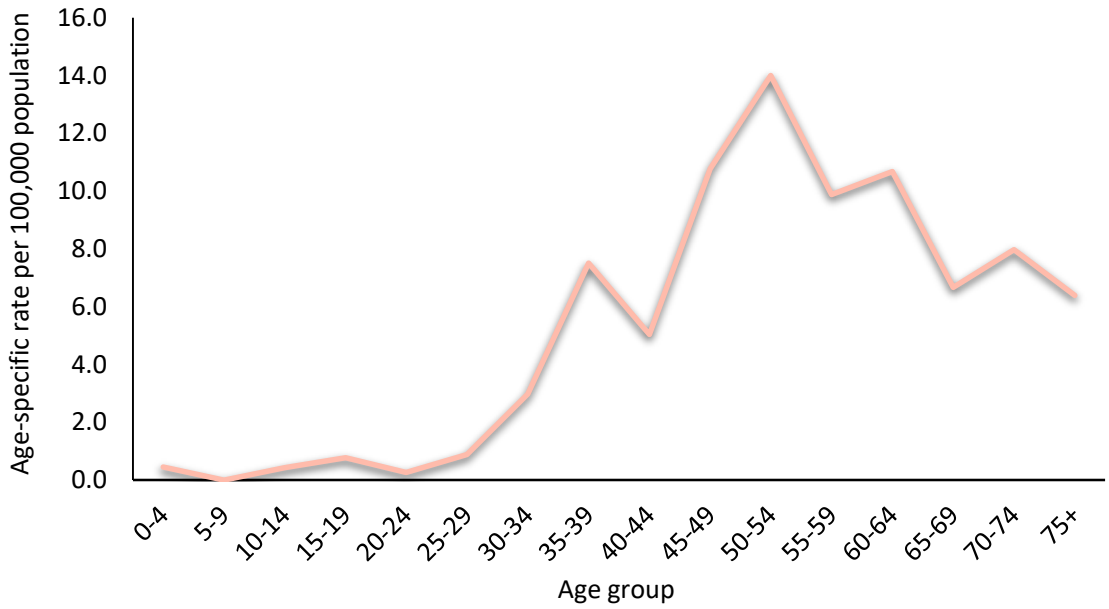



**Figure 25: Comparison of ovary cancer incidence rate with other Indian registries**

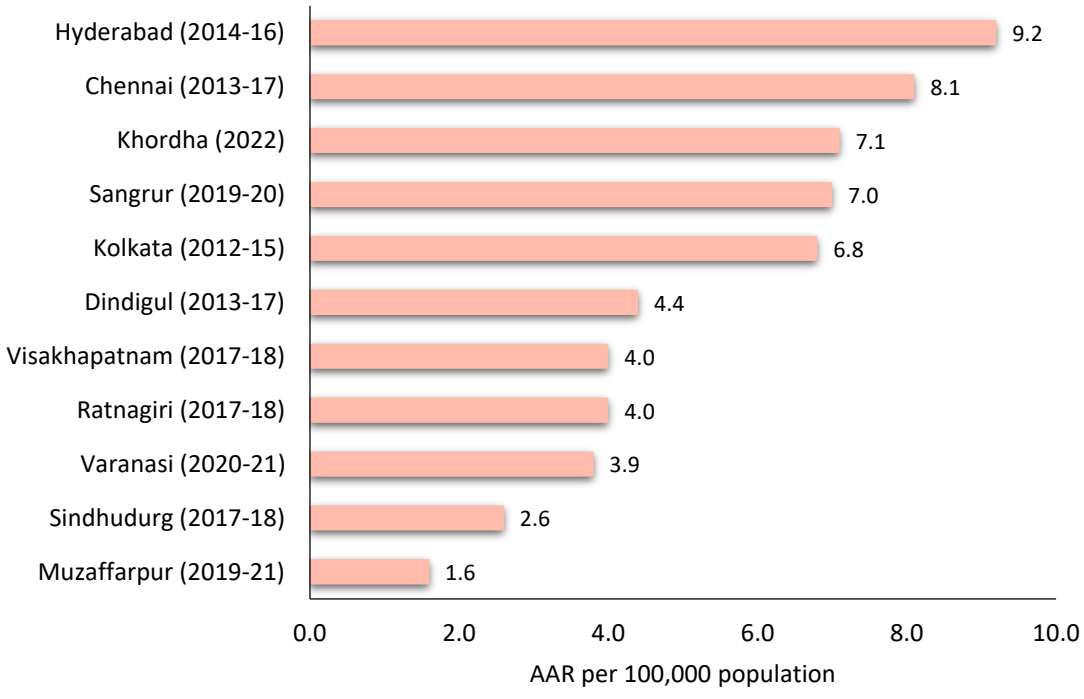


**Figure 26: Age specific incidence and mortality rate – male all sites**

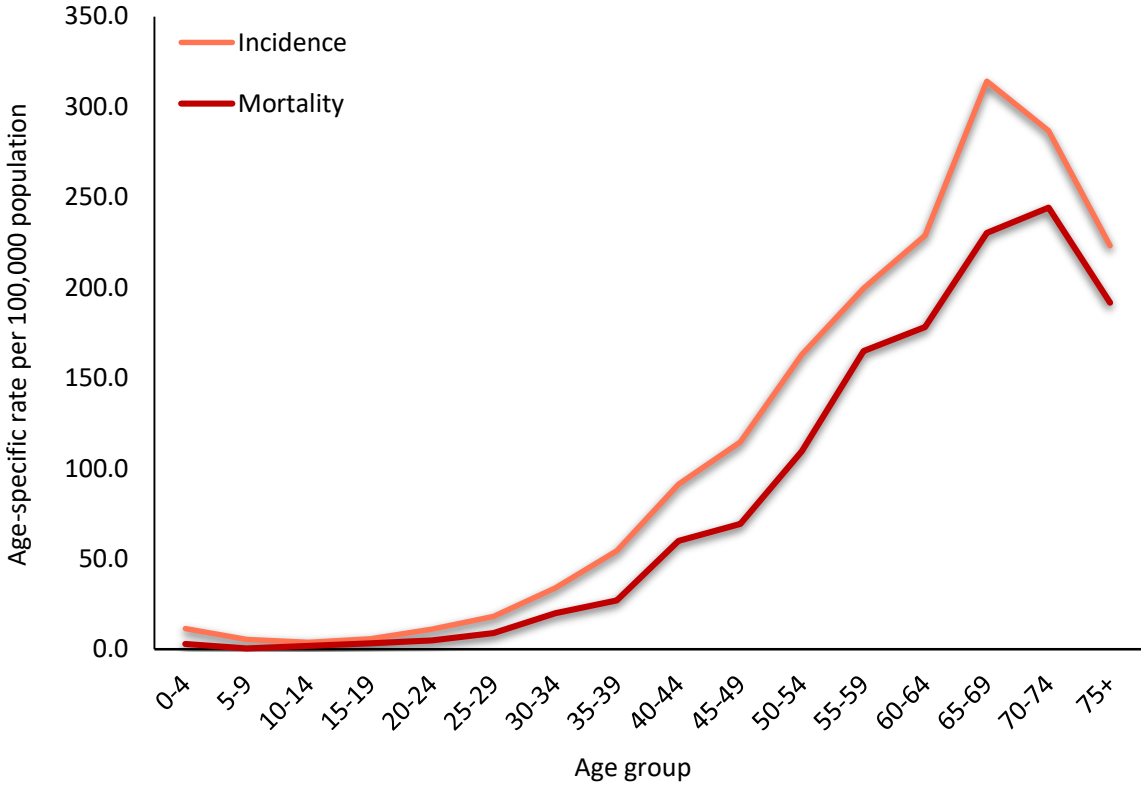
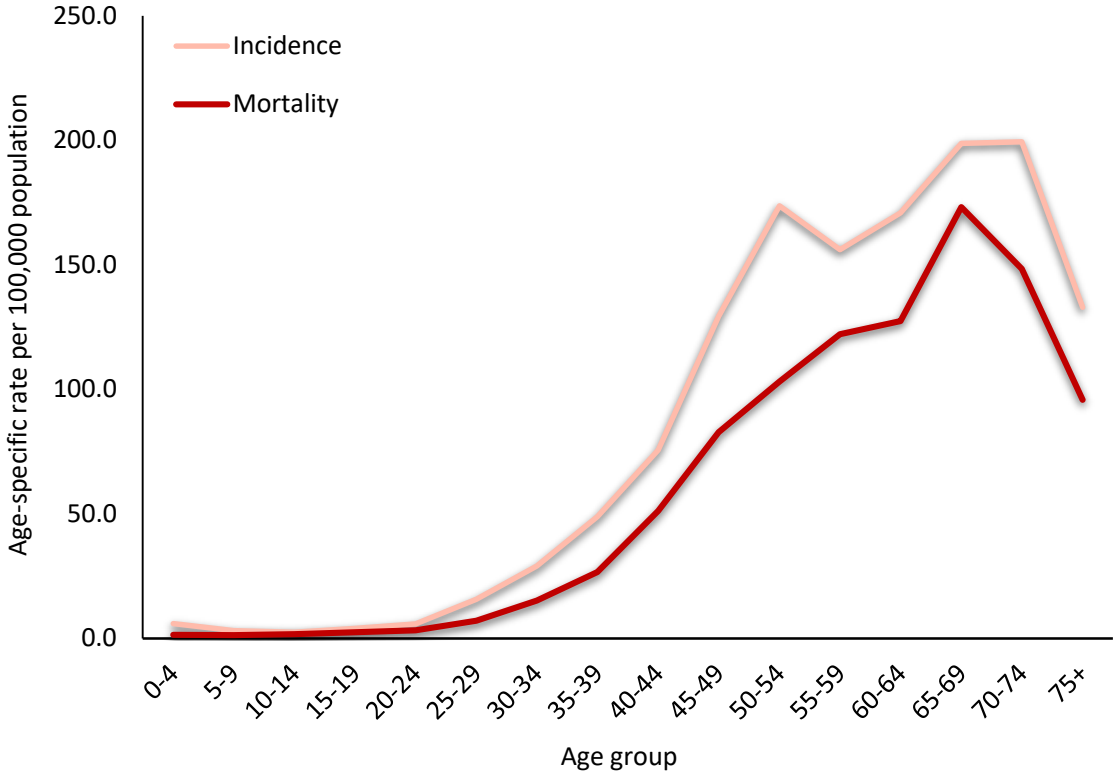



**Figure 27: Age specific incidence and mortality rate – female all sites**



## 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 |
| C76 | Other and Ill-Defined, Secondary and Unspecified sites | C80 | Malignant Neoplasm Without Specification of Site |
| C97 | Malignant Neoplasm of Independent (Primary) Multiple sites | | |

In males, out of 2,514 cases, 132 (5.25%) 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 (1.9%), and other sites (1.2%). In females, out of 1,932 cases, 74 (3.9%) cases were of other and unspecified sites. The predominant cases were of C80 – primary unknown (1.6%), followed by C76 – other and ill-defined, secondary and unspecified sites (1.7%), and other sites (0.7%). The details are presented in Table 11.

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 11: Other and unspecified cases by sex**

| ICD 10 | Male | | Female | |
|---|---|---|---|---|
| | Number | % | Number | % |
| C26 | 14 | 0.6 | 8 | 0.4 |
| C76 | 47 | 1.9 | 32 | 1.7 |
| C77 | 11 | 0.4 | 3 | 0.2 |
| C80 | 60 | 2.4 | 31 | 1.6 |
| **Total** | **132/2514** | **5.3** | **74/1932** | **3.8** |

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

| | Male | Female |
|---|---|---|
| Number of cases | 132 | 74 |
| % to total cases | 5.3 | 3.8 |
| Crude Incidence Rate per 100,000 | 3.1 | 1.9 |
| **Age Adjusted Incidence Rate per 100,000** | **3.6** | **2.1** |
| Truncated Rate per 100,000 | 5.9 | 4.0 |

**Figure 28: Age-specific incidence rate of cancer of other and unspecified: 2020-2021 (Varanasi district)**

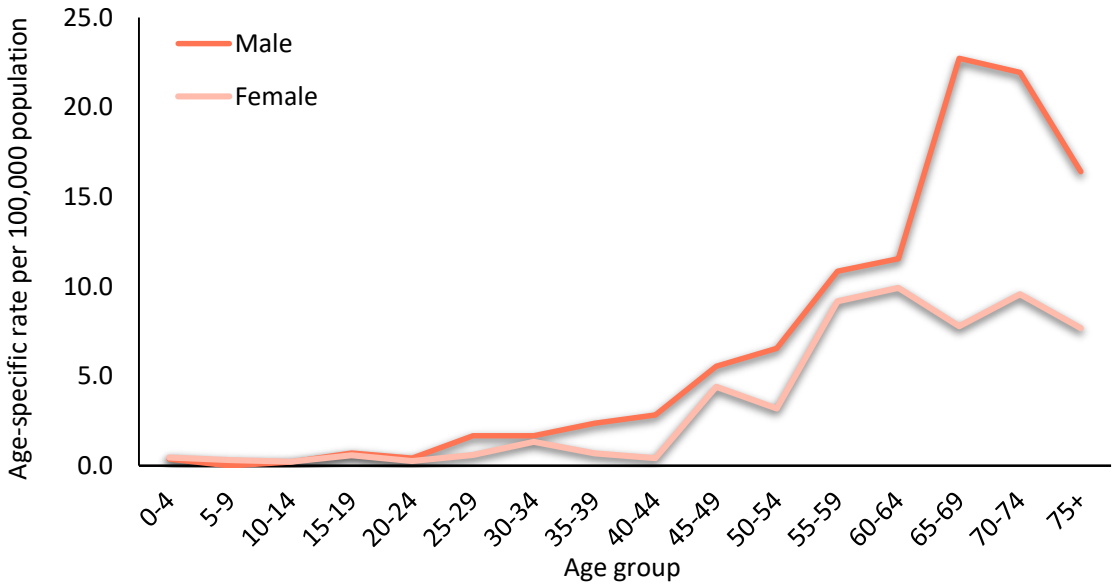
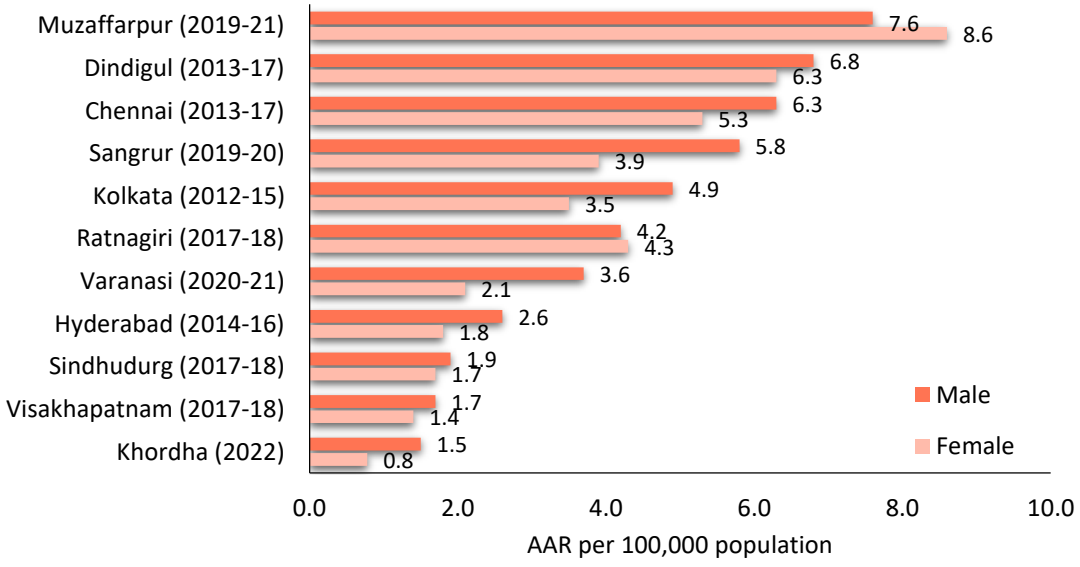



**Figure 29: Comparison of other and unspecified cancer incidence rate with other Indian registries**



# 11. Cancer pattern in urban and rural areas

The cancer registry covers 53% of rural areas and 47% of urban areas. The estimated population for the year 2020-2021 for urban area is 19,17,829 (male: 10,16,076, female: 9,01,733) and rural area is 21,99,369 (male: 11,37,478, female: 10,61,891). We have observed the difference in the cancer incidence rate in urban and rural areas. The urban area cancer incidence rate in males was 76.5 per 100,000 population whereas it was 59.3 per 100,000 population in rural areas. In females, the urban area cancer incidence rates was 62.5 and rural rate was 48.7 per 100,000 population. The cancer incidence rate by the area and sex is mentioned in figure 30. All site cancer mortality by area and sex is mentioned in figure 31.

**Figure 30: All sites cancer incidence rate by area and sex: 2020-2021 (Varanasi district)**

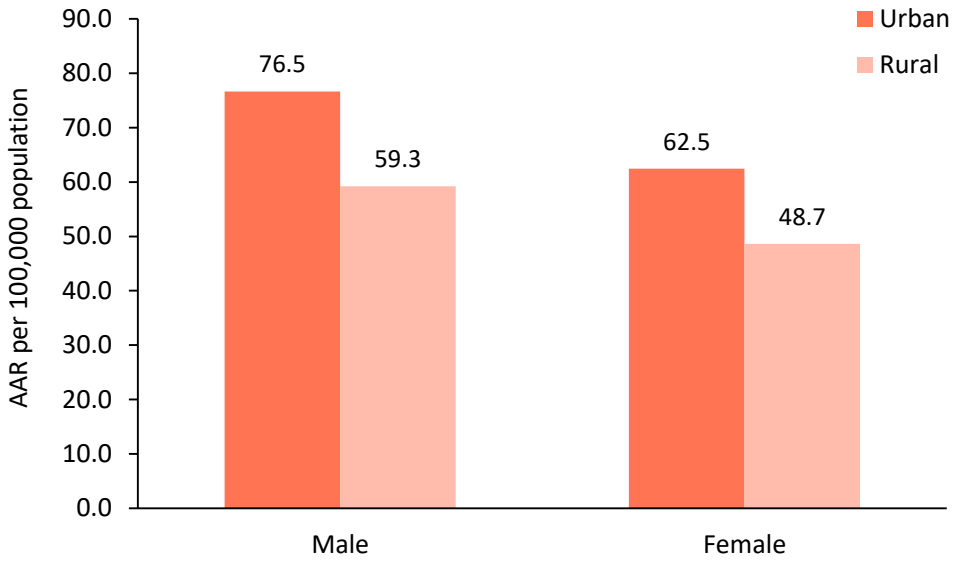
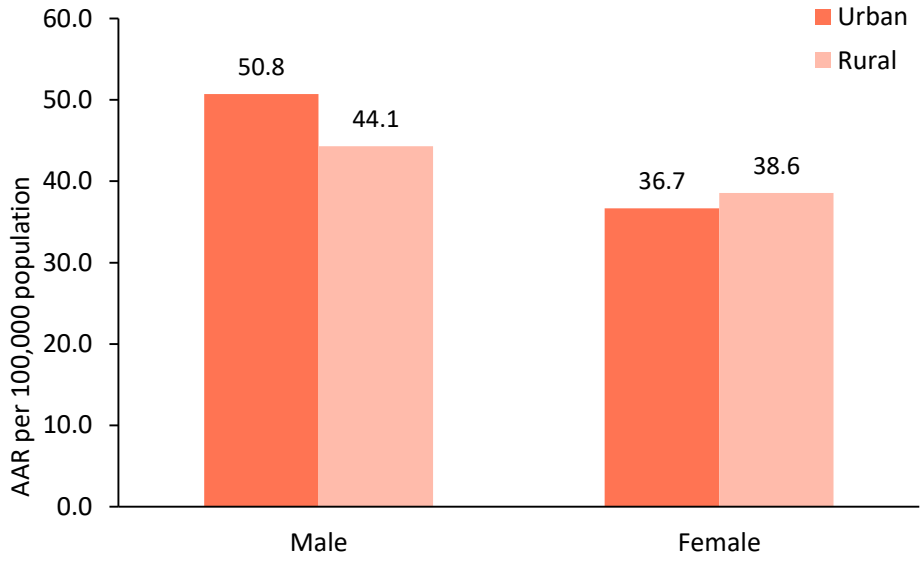



**Figure 31: All site cancer mortality rate by area and sex: 2020-2021 (Varanasi district)**



**Leading cancer sites in rural and urban area**

In males, mouth cancer incidence rates are higher in urban (21.6 per 100,000 population) as compare to rural (14.2 per 100,000 population) areas. For males, mouth cancer incidence rate in urban population is 53% higher than rural population (RR (Rate Ratio) 1.53, 95% CI 1.31-1.78. However, in females the mouth cancer rates in urban area is 80% higher than rural.

Among females, the breast cancer incidence rate in Varanasi urban population is 70% higher than rural population (RR 1.70, 95% CI 1.40-2.06). Whereas, the cervical cancer incidence rate in Varanasi urban female population is 26% higher than rural population (RR 1.26, 95% CI 0.93-1.70).

The gall bladder is the second leading cancer sites in rural and urban female population. For females, the gall bladder cancer incidence rates for Varanasi urban population is 26% lower than rural female population (RR 0.74, 95% CI 0.58-0.94).

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 the lockdown during the COVID-19 pandemic, we had limited access to travel, and we may have missed the cases in rural areas. The leading cancer sites by sex and area are presented in figures 32 to 35.

**Figure 32: Leading cancer sites in urban area: male (2020-2021)**

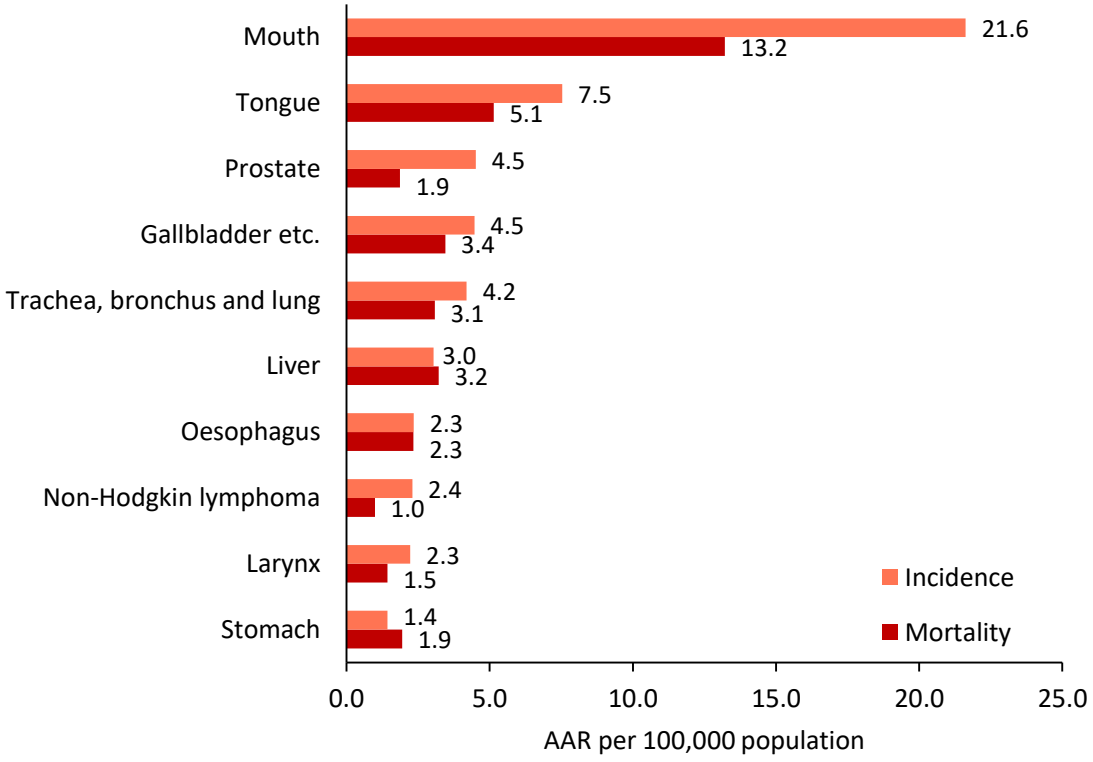


**Figure 33: Leading cancer sites in rural area: male (2020-2021)**

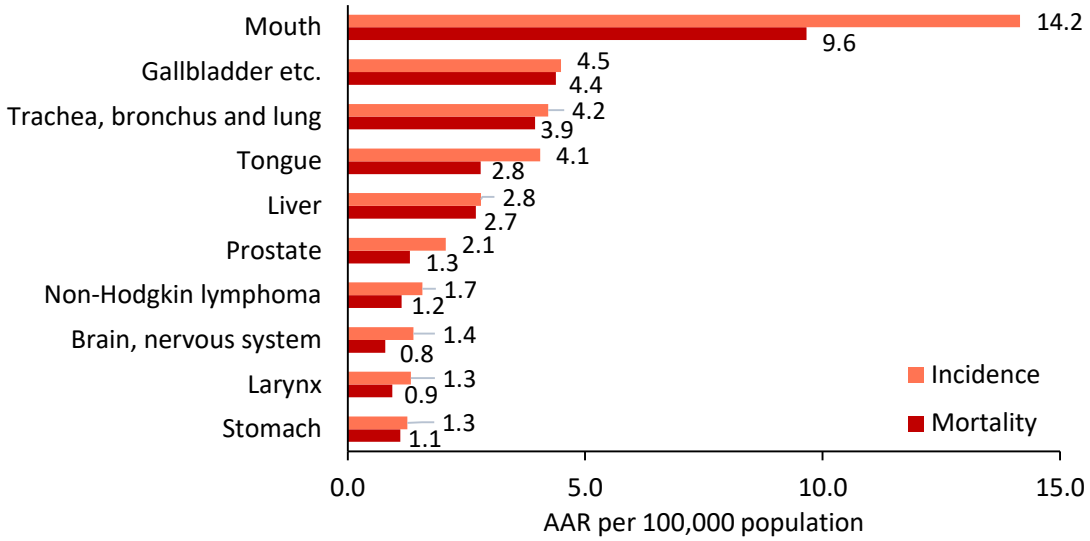



**Figure 34: Leading cancer sites in urban area: female (2020-2021)**

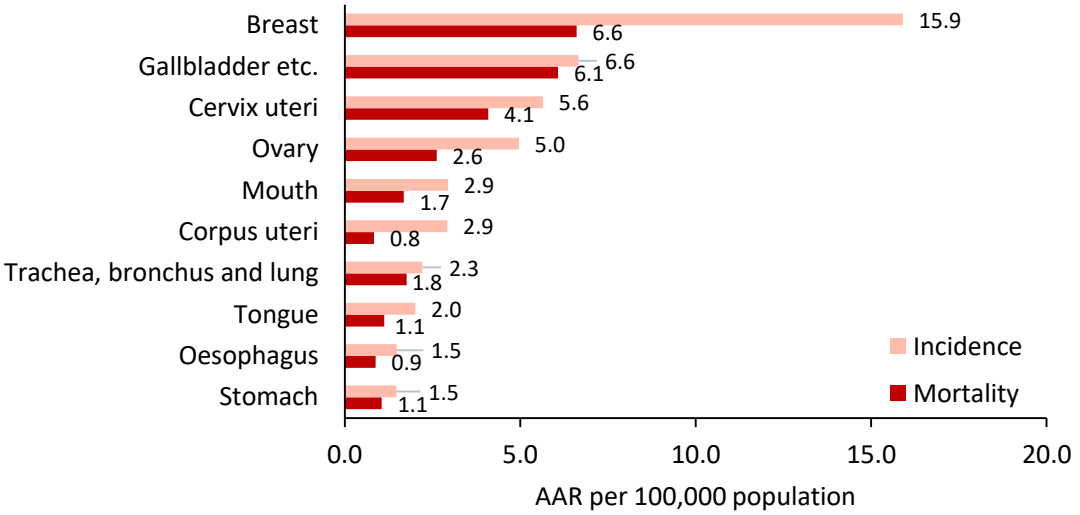
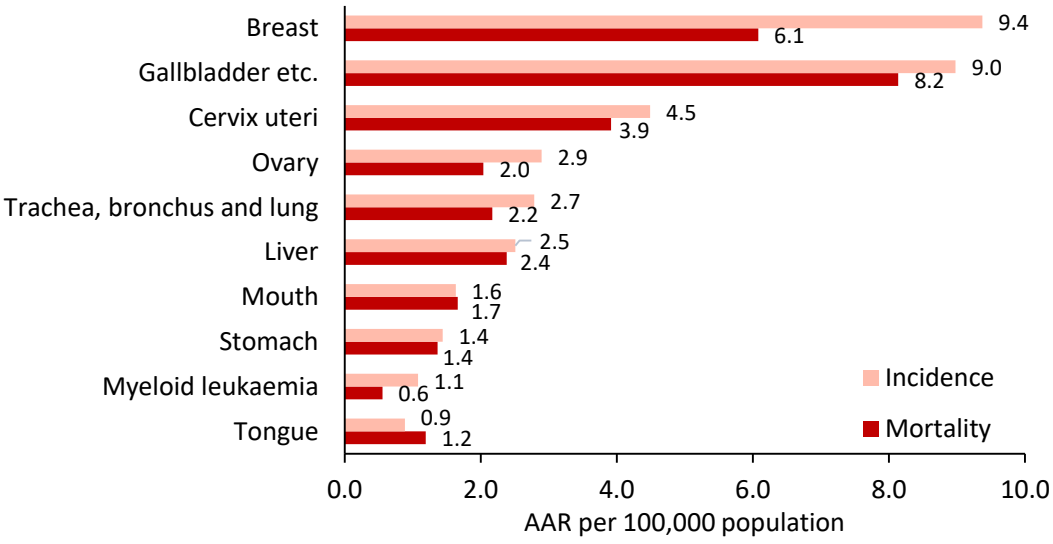



**Figure 35: Leading cancer sites in rural area: female (2020-2021)**



# 12. Cancer pattern in paediatric age-group

In the year 2020-2021, out of 4,446 registered cancer cases 105 (2.4%) paediatric cases (0-14 age group) were noted. The age-adjusted incidence for boys is 72.7 per million and 39.9 per million for girls.

The top five leading cancer sites in boys are lymphoid leukaemia, leukaemia unspecified, non-hodgkin lymphoma, brain, and eye. While in girls lymphoid leukaemia, kidney, hodgkin disease, ovary, and brain are the top five leading cancer sites. Leading cancer sites are mentioned below in figure 36 and 37.

**Figure 36: Leading cancer sites in boys: 2020-2021**

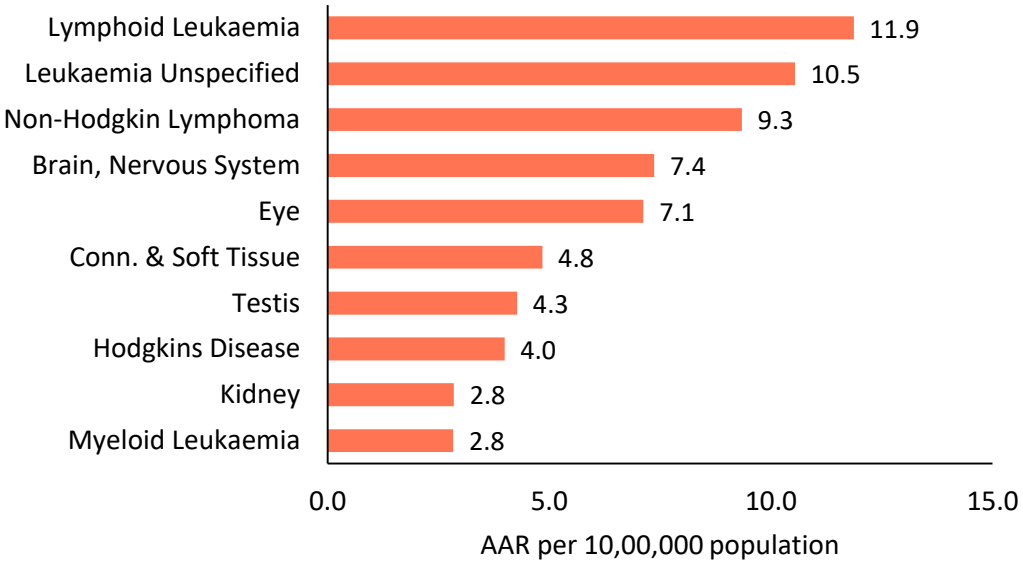
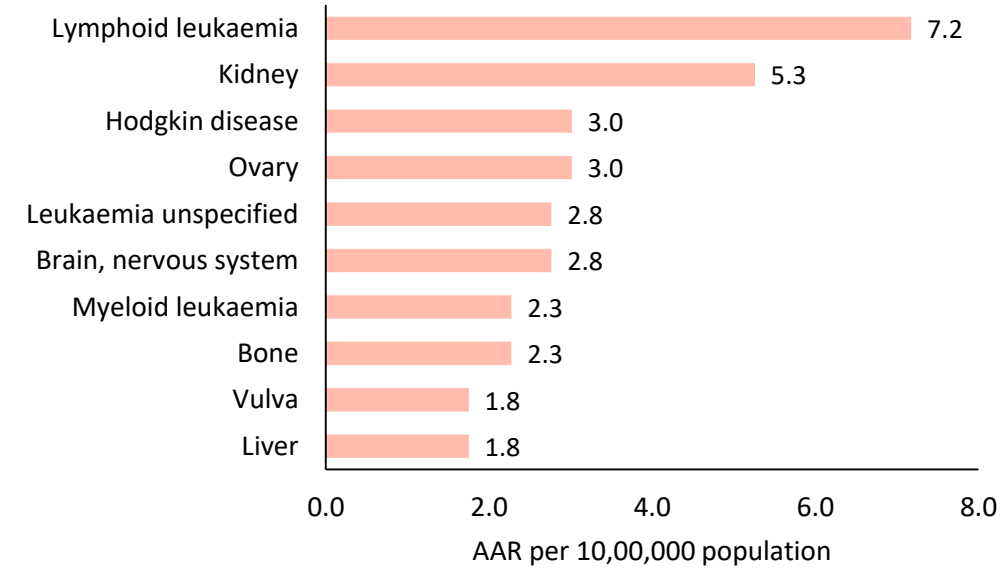



**Figure 37: Leading cancer sites in girls: 2020-2021**



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 12. **The paediatric cancer burden as per ICCC-3 standard is mentioned separately in Table 36 and 37.** [7]

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)**

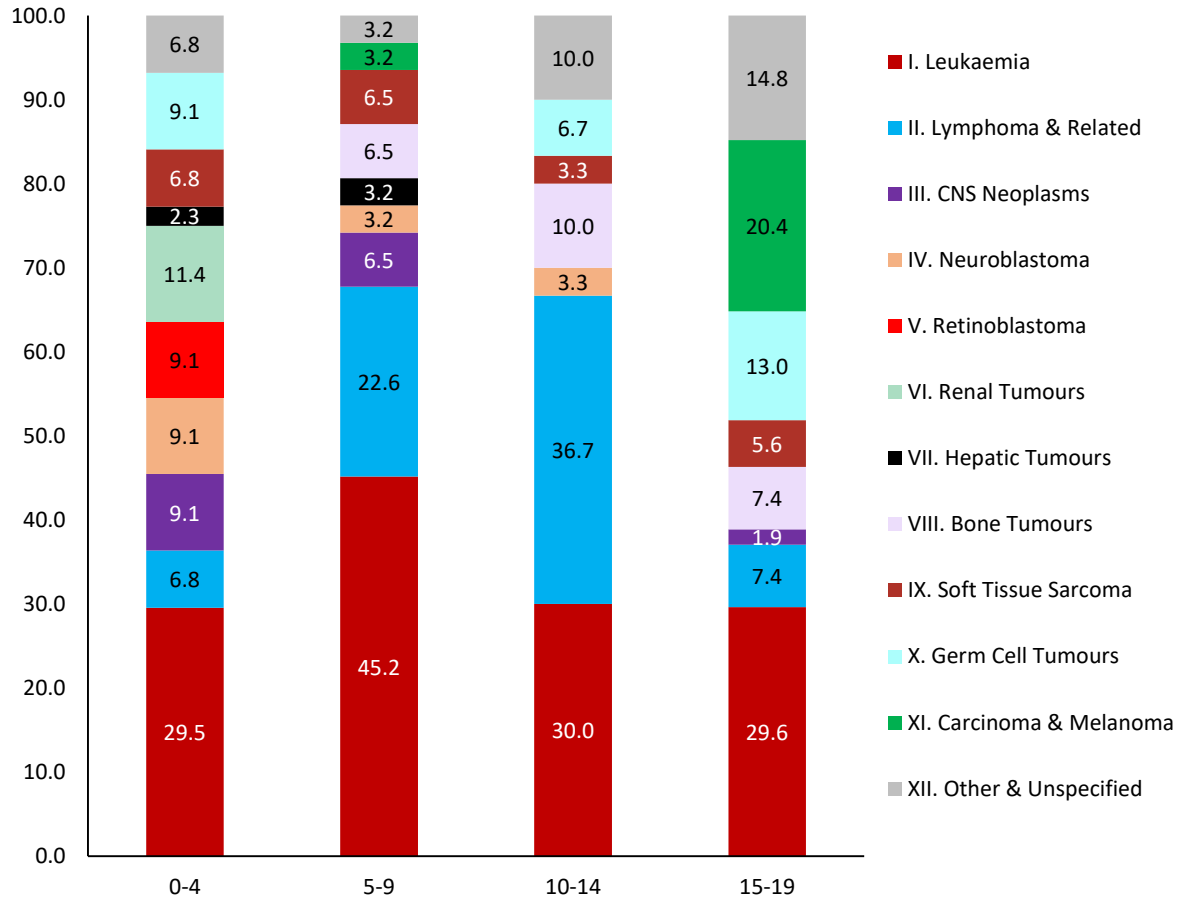


**Table 12: Number of cancer case, percentage and age-adjusted incidence rate per million population: Varanasi district (2020-2021)**

| ICCC Code | Site | Boys | | | Girls | | |
|---|---|---|---|---|---|---|---|
| | | Number | % | AAR* | Number | % | AAR* |
| 1a | Lymphoid leukaemia | 12 | 16.9 | 11.9 | 6 | 17.6 | 7.2 |
| 1b | Acute myeloid leukaemia | 2 | 2.8 | 1.4 | 1 | 2.9 | 0.6 |
| 1c | Chronic myeloproliferative diseases | 2 | 2.8 | 1.4 | 2 | 5.9 | 1.6 |
| 1e | Unspecified and other specified leukaemia | 9 | 12.7 | 10.5 | 2 | 5.9 | 2.8 |
| 2a | Hodgkin lymphomas | 6 | 8.5 | 4.0 | 3 | 8.8 | 3.0 |
| 2b | Non-Hodgkin lymphomas (except Burkitt lymphoma) | 7 | 9.9 | 5.4 | 1 | 2.9 | 0.6 |
| 2c | Burkitt lymphoma | 1 | 1.4 | 0.8 | - | - | - |
| 2d | Miscellaneous lymphoreticular neoplasms | 1 | 1.4 | 1.4 | - | - | - |
| 2e | Unspecified lymphomas | 2 | 2.8 | 1.7 | - | - | - |
| 3a | Ependymomas and choroid plexus tumor | 2 | 2.8 | 2.8 | - | - | - |
| 3b | Astrocytomas | 2 | 2.8 | 2.3 | 1 | 2.9 | 1.0 |
| 3f | Unspecified intracranial and intraspinal neoplasms | - | - | - | 1 | 2.9 | 1.8 |
| 4a | Neuroblastoma and ganglioneuroblastoma | 5 | 7.0 | 6.5 | - | - | - |
| 4b | Other peripheral nervous cell tumours | 1 | 1.4 | 0.6 | - | - | - |
| 5 | Retinoblastoma | 3 | 4.2 | 4.3 | 1 | 2.9 | 1.8 |
| 6a | Nephroblastoma and other nonepithelial renal tumor | 2 | 2.8 | 2.8 | 3 | 8.8 | 5.3 |
| 7a | Hepatoblastoma and mesenchymal tumours of liver | - | - | - | 1 | 2.9 | 1.8 |
| 7c | Unspecified malignant hepatic tumours | 1 | 1.4 | 0.8 | - | - | - |
| 8a | Osteosarcomas | - | - | - | 3 | 8.8 | 2.3 |
| 8c | Ewing tumor and related sarcomas of bone | 2 | 2.8 | 1.4 | - | - | - |
| 9a | Rhabdomyosarcomas | 2 | 2.8 | 2.8 | 2 | 5.9 | 2.8 |
| 9e | Unspecified soft tissue sarcomas | 2 | 2.8 | 1.4 | - | - | - |
| 10b | Malignant extra cranial and extra gonadal germ cell tumor | 1 | 1.4 | 1.4 | - | - | - |
| 10c | Malignant gonadal germ cell tumor | 2 | 2.8 | 2.8 | 2 | 5.9 | 2.4 |
| 10e | Other and unspecified malignant gonadal tumours | - | - | - | 1 | 2.9 | 0.6 |
| 11a | Adrenocortical carcinomas | - | - | - | 1 | 2.9 | 1.0 |
| 12b | Other unspecified malignant tumor | 4 | 5.6 | 4.0 | 3 | 8.8 | 3.4 |
| **Total** | | **71** | **100.0** | **72.7** | **34** | **100.0** | **39.9** |

# 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.[8] 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 51.2% in males (1 out of two cancer cases is tobacco-related ) while it is 14.2% in females (1 out of seven cancer cases is tobacco-related). The leading site under tobacco-related cancer are mouth, tongue, lung, larynx, and oesophagus in males; and in females, lung, mouth, and tongue.

In the male out of 1,287; 512 (39.8%) were farmers, 224 (17.4%) clerical shop-owners, and 138 (10.7%) are government employees. In the female out of 274; 216 (78.8%) are housewives. If we consider the educational level of this population, 30.8% males and while 33.2% females were had primary education (1-7 std). Where as 31.0% females and 13.8% males were illiterate.

**Table 13: Tobacco-related cancer in male: 2020-2021**

| ICD10 | Site | Number | % | CR | AAR | TR |
|---|---|---|---|---|---|---|
| C00 | Lip | 45 | 1.8 | 1.0 | 1.2 | 3.1 |
| C01-C02 | Tongue | 225 | 8.9 | 5.2 | 5.8 | 13.7 |
| C03-C06 | Mouth | 665 | 26.5 | 15.5 | 17.8 | 45.8 |
| C10 | Other oropharynx | 12 | 0.5 | 0.3 | 0.3 | 0.5 |
| C12-C13 | Hypopharynx | 25 | 1.0 | 0.6 | 0.7 | 1.1 |
| C14 | Pharynx unspecified | 3 | 0.1 | 0.1 | 0.1 | 0.1 |
| C15 | Oesophagus | 54 | 2.1 | 1.3 | 1.6 | 3.1 |
| C32 | Larynx | 63 | 2.5 | 1.5 | 1.8 | 3.3 |
| C33-C34 | Trachea, bronchus and lung | 150 | 6.0 | 3.5 | 4.2 | 6.1 |
| C67 | Urinary bladder | 45 | 1.8 | 1.0 | 1.3 | 2.2 |
| **C00-C06, C10, C12-C15, C32-C34 & C67** | **Tobacco-related cancer** | **1287** | **51.2** | **29.9** | **34.7** | **79.0** |

**Table 14: Tobacco-related cancer in female: 2020-2021**

| ICD10 | Site | Number | % | CR | AAR | TR |
|---|---|---|---|---|---|---|
| C00 | Lip | 6 | 0.3 | 0.2 | 0.2 | 0.4 |
| C01-C02 | Tongue | 50 | 2.6 | 1.3 | 1.4 | 3.1 |
| C03-C06 | Mouth | 76 | 3.9 | 1.9 | 2.2 | 5.5 |
| C10 | Other oropharynx | - | - | - | - | - |
| C12-C13 | Hypopharynx | 2 | 0.1 | 0.1 | 0.1 | 0.2 |
| C14 | Pharynx unspecified | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C15 | Oesophagus | 31 | 1.6 | 0.8 | 0.9 | 1.7 |
| C32 | Larynx | 11 | 0.6 | 0.3 | 0.3 | 0.3 |
| C33-C34 | Trachea, bronchus and lung | 86 | 4.5 | 2.2 | 2.5 | 5.0 |
| C67 | Urinary bladder | 12 | 0.6 | 0.3 | 0.4 | 0.5 |
| **C00-C06, C10, C12-C15, C32-C34 & C67** | **Tobacco-related cancer** | **274** | **14.2** | **7.0** | **8.0** | **16.7** |

**Table 15: Tobacco-related cancer cases by sex and occupation**

| Occupation | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Professional | 31 | 2.4 | - | - | 31 | 2.0 |
| Semi-professional | 67 | 5.2 | 3 | 1.1 | 70 | 4.5 |
| Clerical, Shop-owner | 224 | 17.4 | 8 | 2.9 | 232 | 14.9 |
| Farmer | 512 | 39.8 | 33 | 12.0 | 545 | 34.9 |
| Skilled worker | 26 | 2.0 | 1 | 0.4 | 27 | 1.7 |
| Semi-skilled worker | 82 | 6.4 | 1 | 0.4 | 83 | 5.3 |
| Unskilled worker | 62 | 4.8 | 3 | 1.1 | 65 | 4.2 |
| Unemployed | 19 | 1.5 | - | - | 19 | 1.2 |
| Student | 5 | 0.4 | - | - | 5 | 0.3 |
| House-wife | - | - | 216 | 78.8 | 216 | 13.8 |
| Govt. Employee | 138 | 10.7 | 4 | 1.5 | 142 | 9.1 |
| Private Employee | 51 | 4.0 | 1 | 0.4 | 52 | 3.3 |
| Other | 66 | 5.1 | 4 | 1.5 | 70 | 4.5 |
| Unknown/No information | 4 | 0.3 | - | - | 4 | 0.3 |
| **Total** | **1287** | **100.0** | **274** | **100.0** | **1561** | **100.0** |

**Table 16: Tobacco-related cancer cases by sex and education**

| Education | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Illiterate | 178 | 13.8 | 85 | 31.0 | 263 | 16.8 |
| Literate | 125 | 9.7 | 35 | 12.8 | 160 | 10.2 |
| Primary (1st to 7th std) | 397 | 30.8 | 91 | 33.2 | 488 | 31.3 |
| Secondary (8th to 10th std) | 288 | 22.4 | 36 | 13.1 | 324 | 20.8 |
| Technical after 10th | 34 | 2.6 | 2 | 0.7 | 36 | 2.3 |
| College | 153 | 11.9 | 20 | 7.3 | 173 | 11.1 |
| Post Graduate | 102 | 7.9 | 5 | 1.8 | 107 | 6.9 |
| Other | 8 | 0.6 | - | - | 8 | 0.5 |
| Unknown/No information | 2 | 0.2 | - | - | 2 | 0.1 |
| **Total** | **1287** | **100** | **274** | **100** | **1561** | **100** |

**Table 17: Tobacco-related cancer cases by sex and religion**

| Religion | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Hindu | 1127 | 87.6 | 249 | 90.9 | 1376 | 88.1 |
| Muslim | 159 | 12.4 | 22 | 8.0 | 181 | 11.6 |
| Sikh | - | - | 1 | 0.4 | 1 | 0.1 |
| Other | 1 | 0.1 | 2 | 0.7 | 3 | 0.2 |
| **Total** | **1287** | **100** | **274** | **100** | **1561** | **100** |

# 14. Cancer burden as per anatomical system

For males, the reported majority of cancer cases involved the sites from head and neck region (43.4%), followed by the digestive tract organs (20.0%) with highest AAR 29.1 and 13.7 per 100,000 population respectively. Other leading sites were respiratory and intra thoracic sites (9.2%), lymphoid and haematopoietic tissue (9.2%) and male genital orgen (6.4%). In head and neck region, the leading site was of mouth cancer (C03-C06) with AAR 17.8 per 100,000 population. In digestive tract organs, gall bladder (C23-C24) was the leading cancer site with AAR 4.5 per 100,000 population. Among male genitalia cancer cases, the leading site was prostate (C61) with AAR 3.2 per 100,000 population.

For females, the reported majority of cancer cases involved the sites from digestive organ region (25.3%), followed by the breast (23.2%) and female genital organs (21.1%) with AAR 14.0, 12.4, and 11.7 per 100,000 population respectively. Other leading sites were head and neck region (9.9%), lymphoid and haematopoietic tissue (6.5%) and respiratory and intra thoracic organ (5.1%). Among the digestive organs, the leading site was gall bladder (C23-24) with AAR 7.9 per 100,000 population. For female genitalia organs, the leading site is cervix uteri (C53) with AAR 5.0 per 100,000 population. The details are presented in figure 39, tables 18 and 19.

**Figure 39: Cancer rates by different anatomical sites in Varanasi district: 2020-2021**

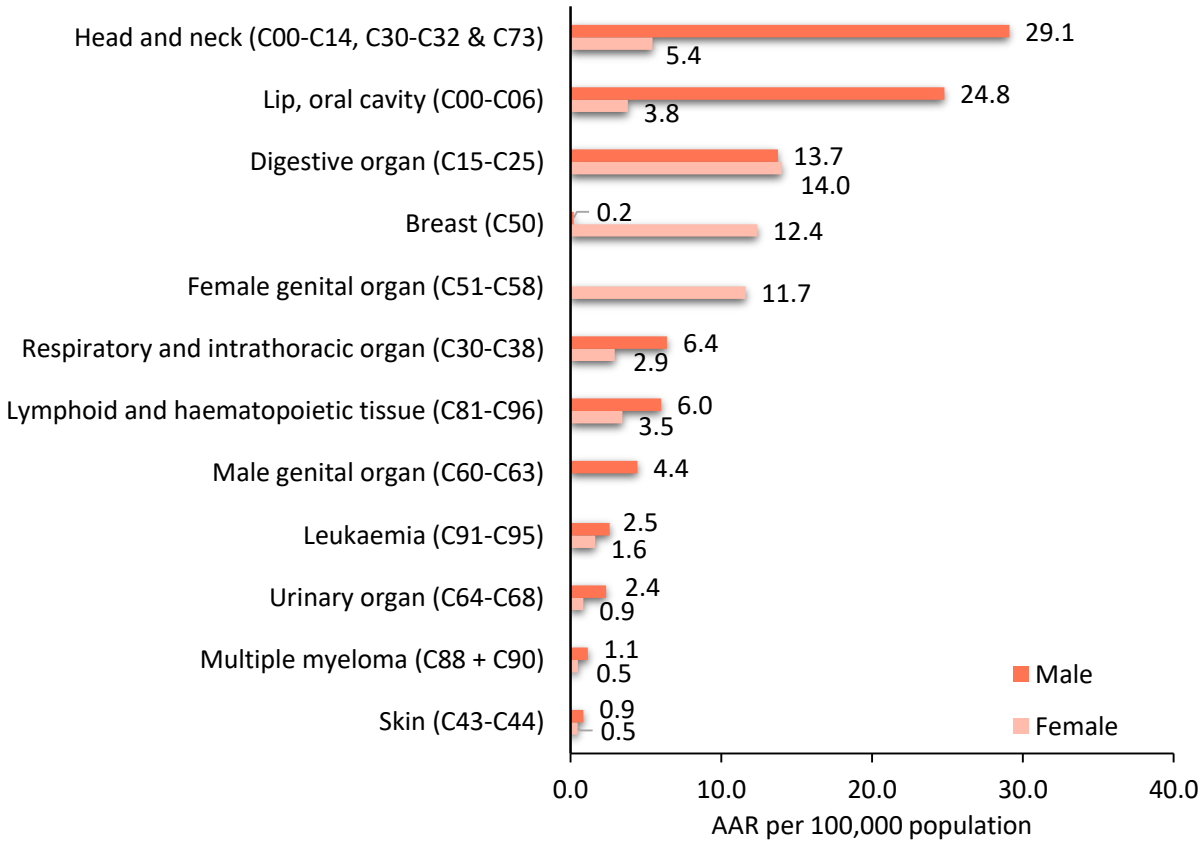


**Table 18: Cancer burden as per the various anatomical system in male: 2020-2021**

| ICD10 | Site | Number | % | CR | AAR | TR |
|---|---|---|---|---|---|---|
| C00-C14, C30-C32 & C73 | Head and Neck | 1092 | 43.4 | 25.4 | 29.1 | 70.4 |
| C00-C06 | Lip, Oral Cavity | 935 | 37.2 | 21.7 | 24.8 | 62.6 |
| C15-C25 | Digestive Organ | 504 | 20.0 | 11.7 | 13.7 | 25.9 |
| C30-C38 | Respiratory and Intra thoracic Organ | 231 | 9.2 | 5.4 | 6.4 | 10.3 |
| C81-C96 | Lymphoid and Haematopoietic tissue | 231 | 9.2 | 5.4 | 6.0 | 8.8 |
| C60-C63 | Male Genital Organ | 161 | 6.4 | 3.7 | 4.4 | 5.1 |
| C91-C95 | Leukaemia | 99 | 3.9 | 2.3 | 2.5 | 2.8 |
| C64-C68 | Urinary Organ | 84 | 3.3 | 2.0 | 2.4 | 4.2 |
| C88 + C90 | Multiple Myeloma | 40 | 1.6 | 0.9 | 1.1 | 2.4 |
| C43-C44 | Skin | 31 | 1.2 | 0.7 | 0.9 | 1.5 |
| C50 | Breast | 8 | 0.3 | 0.2 | 0.2 | 0.4 |

**Table 19: Cancer burden as per the various anatomical system in female: 2020-2021**

| ICD10 | Site | Number | % | CR | AAR | TR |
|---|---|---|---|---|---|---|
| C15-C25 | Digestive Organ | 488 | 25.3 | 12.4 | 14.0 | 30.7 |
| C50 | Breast | 449 | 23.2 | 11.4 | 12.4 | 29.7 |
| C51-C58 | Female Genital Organ | 409 | 21.2 | 10.4 | 11.7 | 27.0 |
| C00-C14, C30-C32 & C73 | Head and Neck | 191 | 9.9 | 4.9 | 5.4 | 11.4 |
| C00-C06 | Lip, Oral Cavity | 132 | 6.8 | 3.2 | 3.8 | 9.1 |
| C81-C96 | Lymphoid and Haematopoietic tissue | 126 | 6.5 | 3.4 | 3.5 | 6.1 |
| C30-C38 | Respiratory and Intra thoracic Organ | 99 | 5.1 | 2.5 | 2.9 | 5.5 |
| C91-C95 | Leukaemia | 61 | 3.2 | 1.6 | 1.6 | 2.8 |
| C64-C68 | Urinary Organ | 27 | 1.4 | 0.7 | 0.9 | 1.3 |
| C88 + C90 | Multiple Myeloma | 17 | 0.9 | 0.4 | 0.5 | 1.1 |
| C43-C44 | Skin | 16 | 0.8 | 0.4 | 0.5 | 1.1 |

# 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 (90.1%). Moreover, cancer cases were more in the population having educational level primary (1-7 std) [Male: 29.3%, Female: 31.4%]. Furthermore, in terms of occupation, cancer cases were more commonly found among farmers (39%) in males and housewives (77.6%) 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 20: Cancer cases by education and sex**

| Education | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Illiterate | 320 | 12.7 | 547 | 28.3 | 867 | 19.5 |
| Literate | 227 | 9.0 | 198 | 10.2 | 425 | 9.6 |
| Primary (1 to 7std) | 739 | 29.4 | 608 | 31.5 | 1347 | 30.3 |
| Secondary (8 to 10 std) | 539 | 21.4 | 270 | 14.0 | 809 | 18.2 |
| Technical after $10^{th}$ | 66 | 2.6 | 18 | 0.9 | 84 | 1.9 |
| College | 340 | 13.5 | 172 | 8.9 | 512 | 11.5 |
| Post Graduate | 231 | 9.2 | 98 | 5.1 | 329 | 7.4 |
| Other | 16 | 0.6 | 6 | 0.3 | 22 | 0.5 |
| Not applicable to children | 32 | 1.3 | 14 | 0.7 | 46 | 1.0 |
| Unknown / No Information | 4 | 0.2 | 1 | 0.1 | 5 | 0.1 |
| **Total** | **2514** | **100** | **1932** | **100** | **4446** | **100** |

**Table 21: Cancer cases by religion and sex**

| Religion | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Hindu | 2244 | 89.3 | 1761 | 91.1 | 4005 | 90.1 |
| Muslim | 267 | 10.6 | 159 | 8.2 | 426 | 9.6 |
| Christian | - | - | 4 | 0.2 | 4 | 0.1 |
| Sikh | 2 | 0.1 | 4 | 0.2 | 6 | 0.1 |
| Other | 1 | 0.04 | 4 | 0.2 | 5 | 0.1 |
| **Total** | **2514** | **100** | **1932** | **100** | **4446** | **100** |

**Table 22: Cancer cases by income and sex**

| Income | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| => 30375 | 282 | 11.2 | 99 | 5.1 | 381 | 8.6 |
| 15188-30374 | 258 | 10.3 | 166 | 8.6 | 424 | 9.5 |
| 11362-15187 | 287 | 11.4 | 177 | 9.2 | 464 | 10.4 |
| 7594-11361 | 887 | 35.3 | 697 | 36.1 | 1584 | 35.6 |
| 4556-7593 | 306 | 12.2 | 300 | 15.5 | 606 | 13.6 |
| 1521-4555 | 196 | 7.8 | 220 | 11.4 | 416 | 9.4 |
| <= 1520 | 247 | 9.8 | 259 | 13.4 | 506 | 11.4 |
| Unknown/No information | 52 | 2.0 | 13 | 0.7 | 65 | 1.5 |
| **Total** | **2514** | **100** | **1932** | **100** | **4446** | **100** |

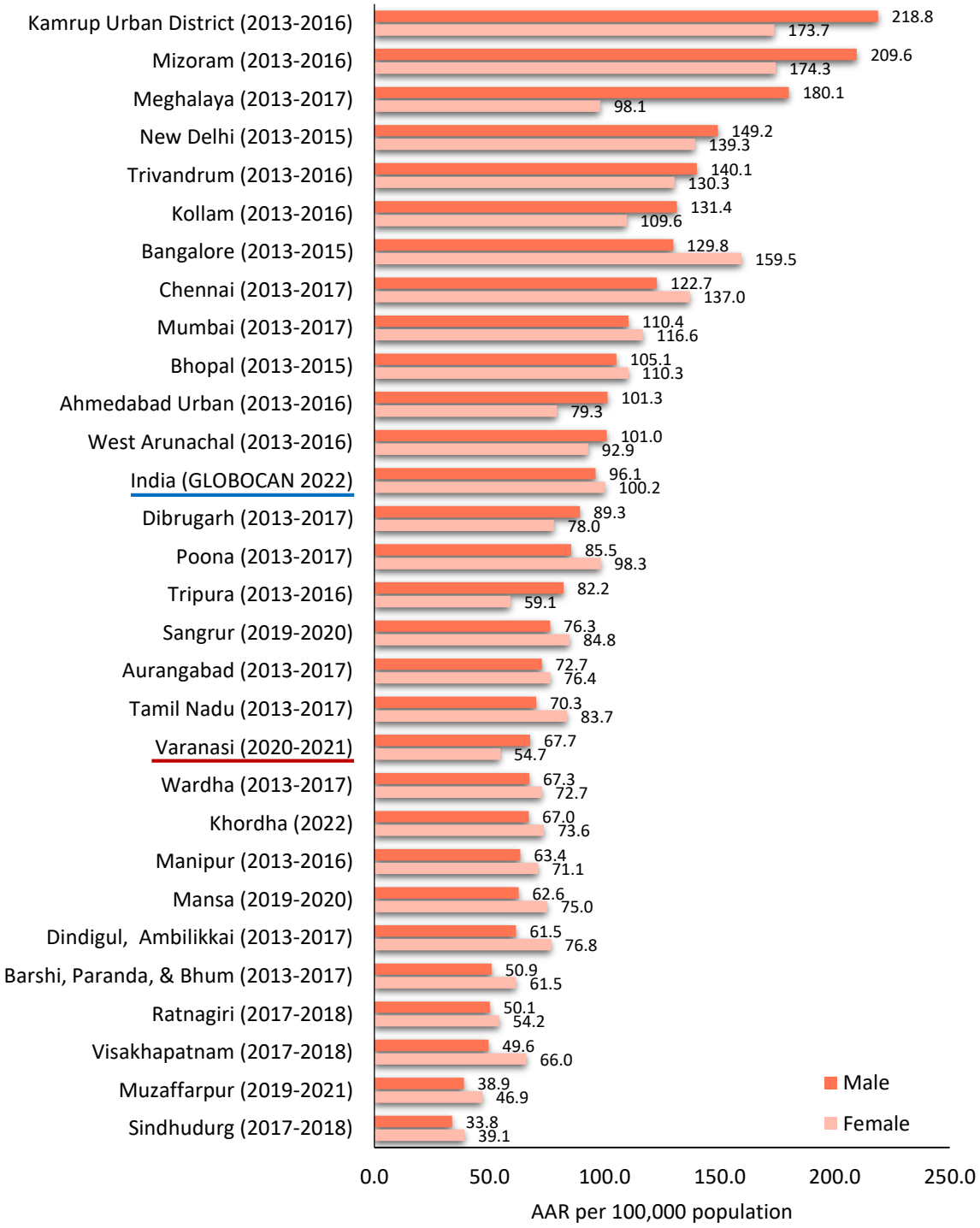
**Table 23: Cancer cases by occupation and sex**

| Occupation | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Professional | 56 | 2.2 | 2 | 0.1 | 58 | 1.3 |
| Semi-professional | 112 | 4.5 | 16 | 0.8 | 128 | 2.9 |
| Clerical, Shop-owner | 372 | 14.8 | 28 | 1.4 | 400 | 9.0 |
| Farmer | 980 | 39.0 | 232 | 12.0 | 1212 | 27.3 |
| Skilled worker | 44 | 1.8 | 8 | 0.4 | 52 | 1.2 |
| Semi-skilled worker | 136 | 5.4 | 4 | 0.2 | 140 | 3.1 |
| Unskilled worker | 125 | 5.0 | 4 | 0.2 | 129 | 2.9 |
| Unemployed | 32 | 1.3 | 3 | 0.2 | 35 | 0.8 |
| Student | 103 | 4.1 | 49 | 2.5 | 152 | 3.4 |
| House-wife | - | - | 1499 | 77.6 | 1499 | 33.7 |
| Govt. Employee | 302 | 12.0 | 52 | 2.7 | 354 | 8.0 |
| Private Employee | 83 | 3.3 | 4 | 0.2 | 87 | 2.0 |
| Other | 132 | 5.3 | 17 | 0.9 | 149 | 3.4 |
| Not applicable for children | 33 | 1.3 | 14 | 0.7 | 47 | 1.1 |
| Unknown/No information | 4 | 0.2 | - | - | 4 | 0.1 |
| **Total** | **2514** | **100** | **1932** | **100** | **4446** | **100** |

# 16. Comparison of cancer incidence rate with other Indian registries

Age-adjusted incidence rate for all cancer sites for both sexes for the year 2020-2021 was compared with other Indian PBCRs in figure 40. The cancer incidence rate of Varanasi district is lower than urban areas and it is comparable with other rural cancer registries in the country.

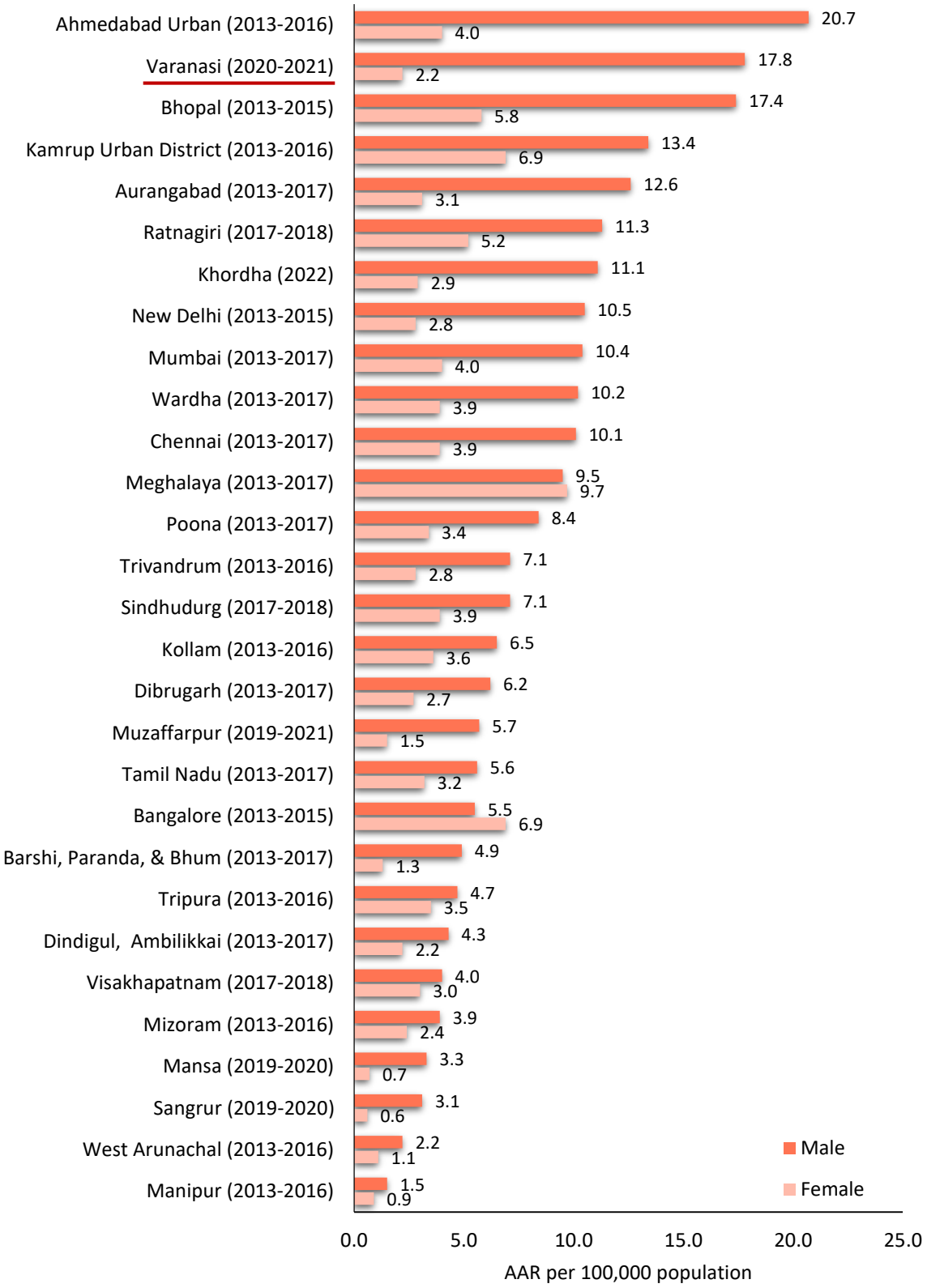
**Figure 40: Age-adjusted incidence rate of all cancer sites**




(References: 5, 9-18)

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 41.

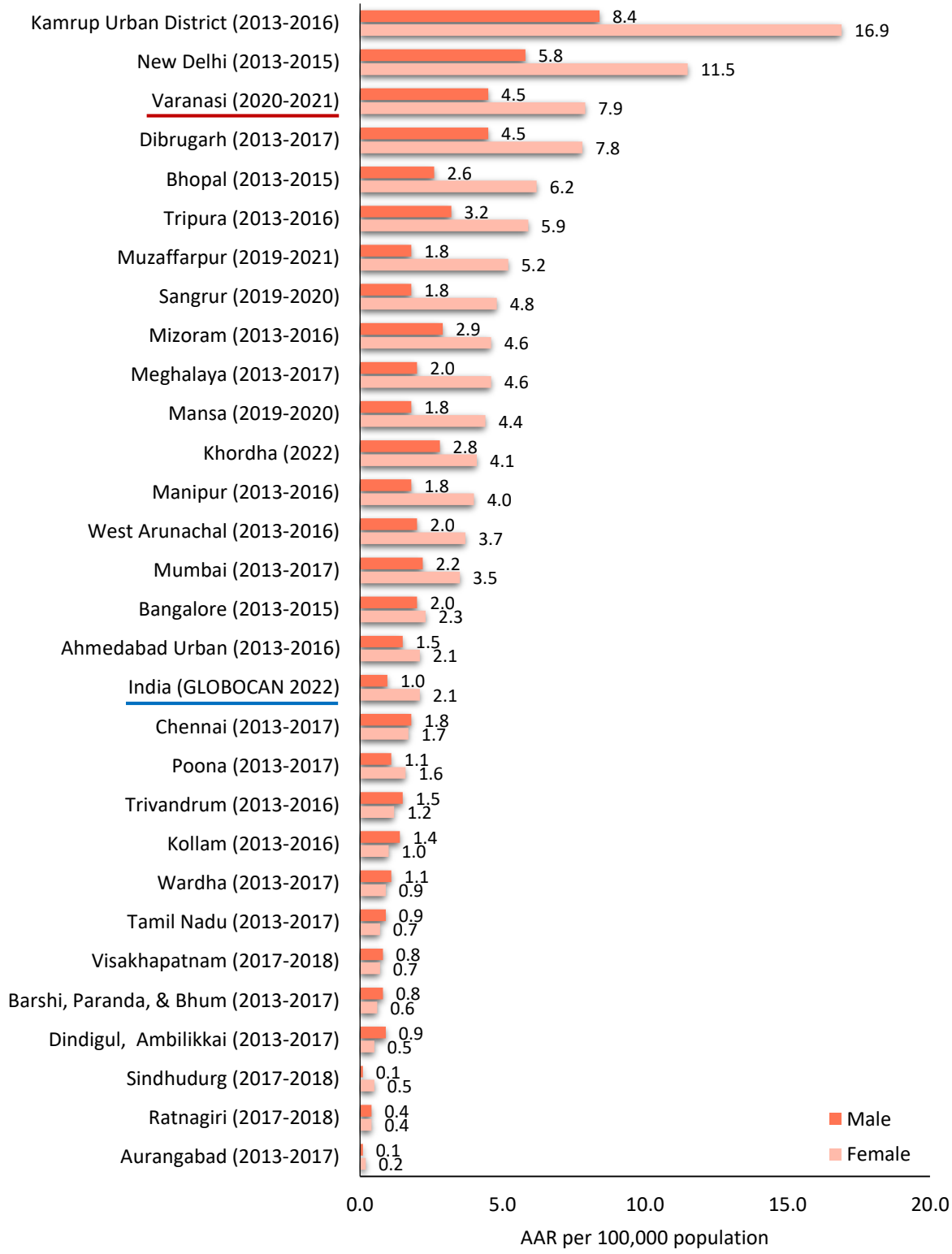
**Figure 41: Age-adjusted incidence rate of mouth cancer (C03-C06)**




(References: 5, 10-18)

Gall bladder cancer is the second leading cancer site among females and third in males in Varanasi district. Compared to other Indian registries the rates are high; however, it is low as compared to Kamrup urban district and New Delhi cancer registry. The comparison of gall bladder cancer rate is shown in figure 42.

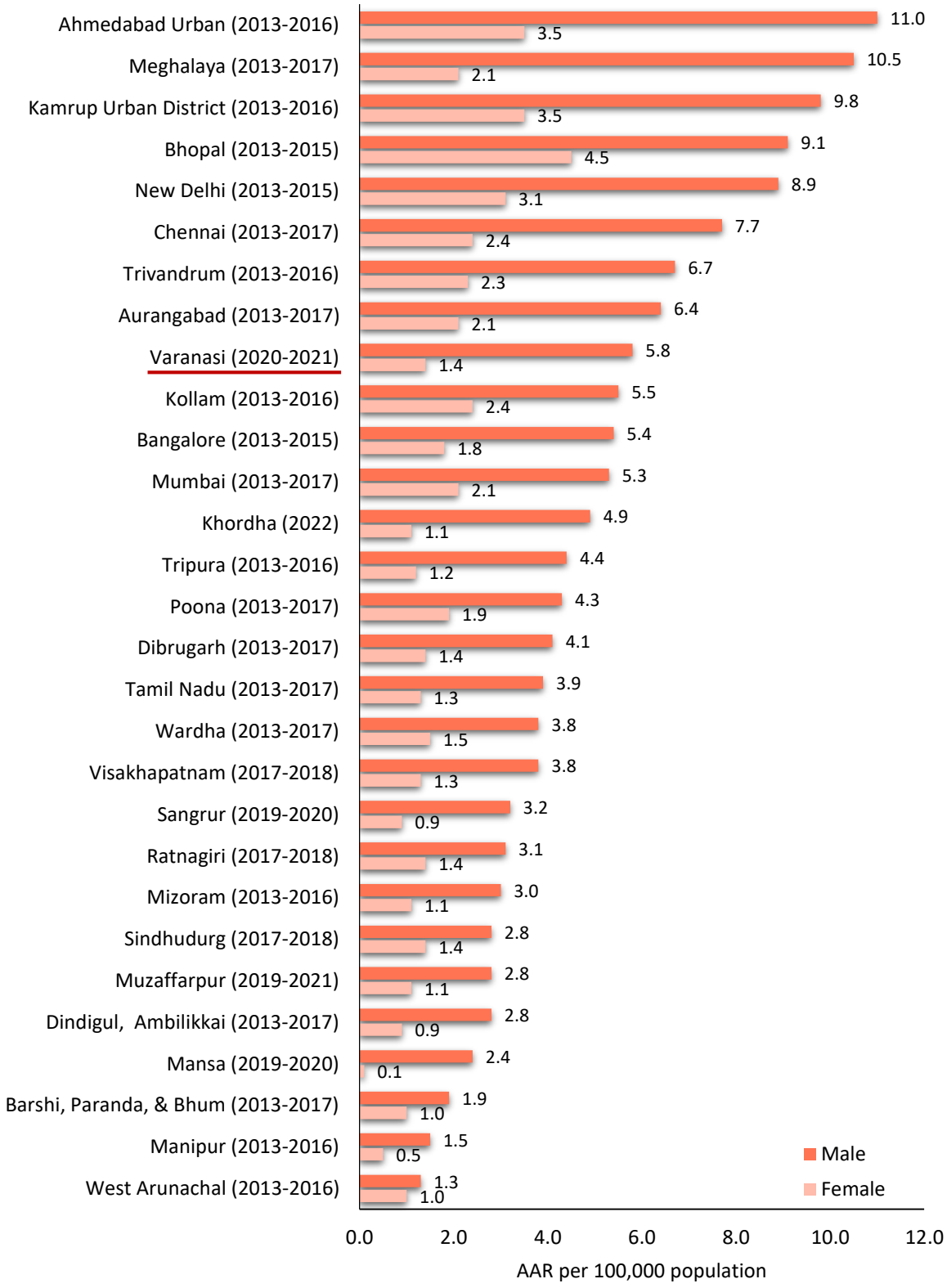
**Figure 42: Age-adjusted incidence rate of gall bladder cancer**




(References: 5, 9-18)

Tongue cancer is the second leading cancer site among males in Varanasi district. Compared to other Indian rural registries the rate is high; however, it is low as compared to Delhi and few other Indian cancer registry. The comparison of tongue cancer rate is shown in figure 43.

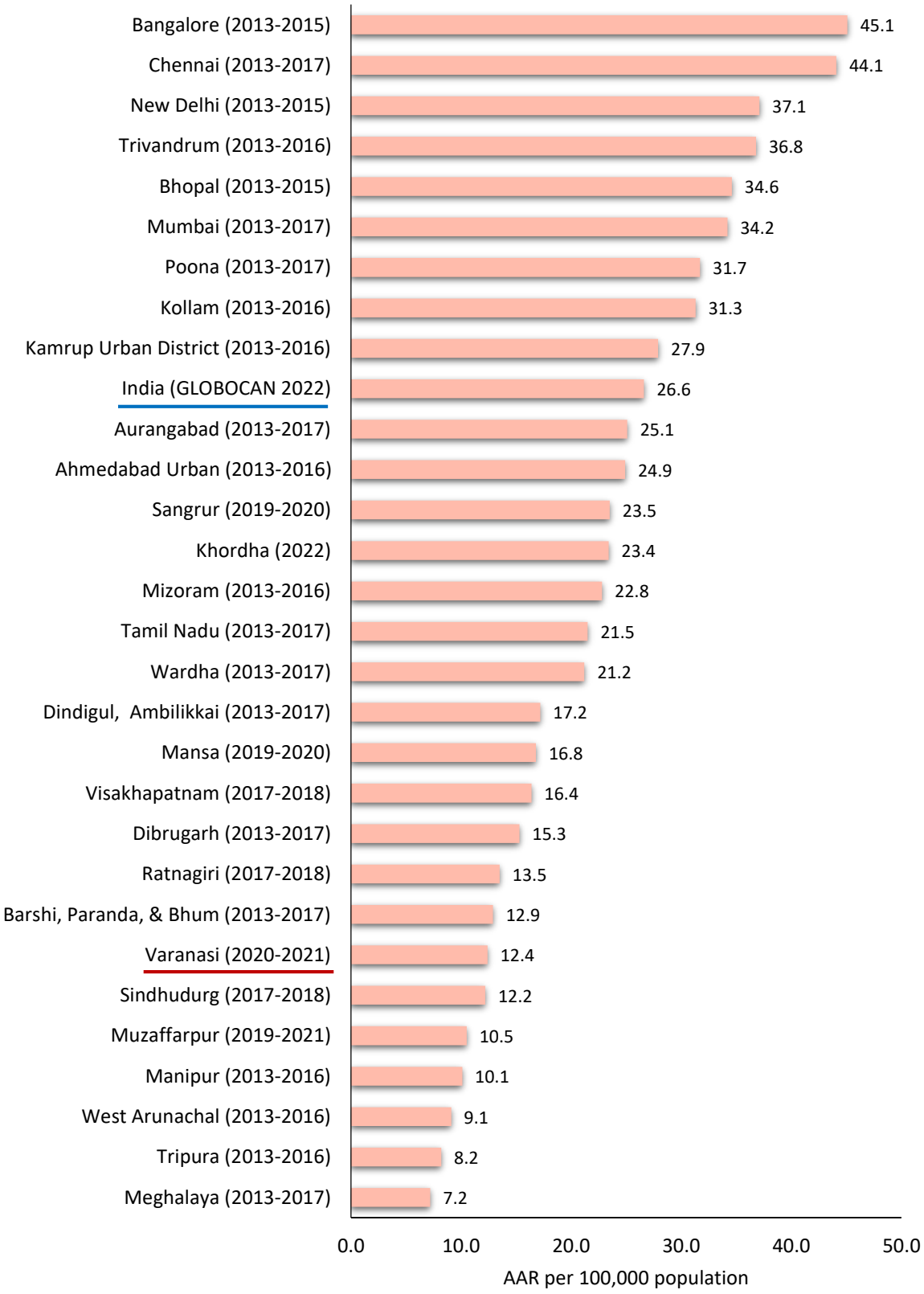
**Figure 43: Age-adjusted incidence rate of tongue cancer**




(References: 5, 10-18)

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.

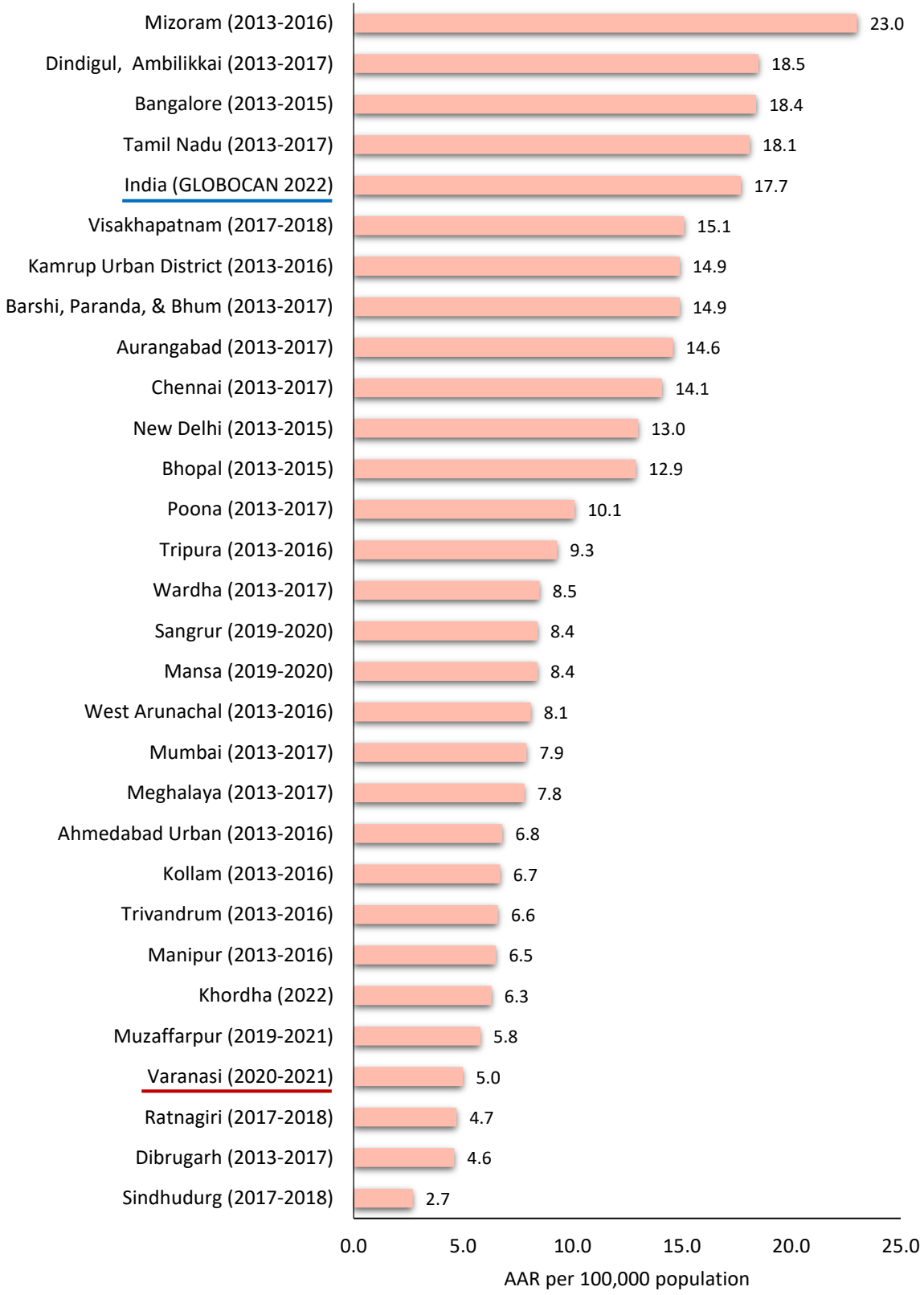
**Figure 44: Age-adjusted incidence rate of breast cancer**




(References: 5, 9-18)

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.

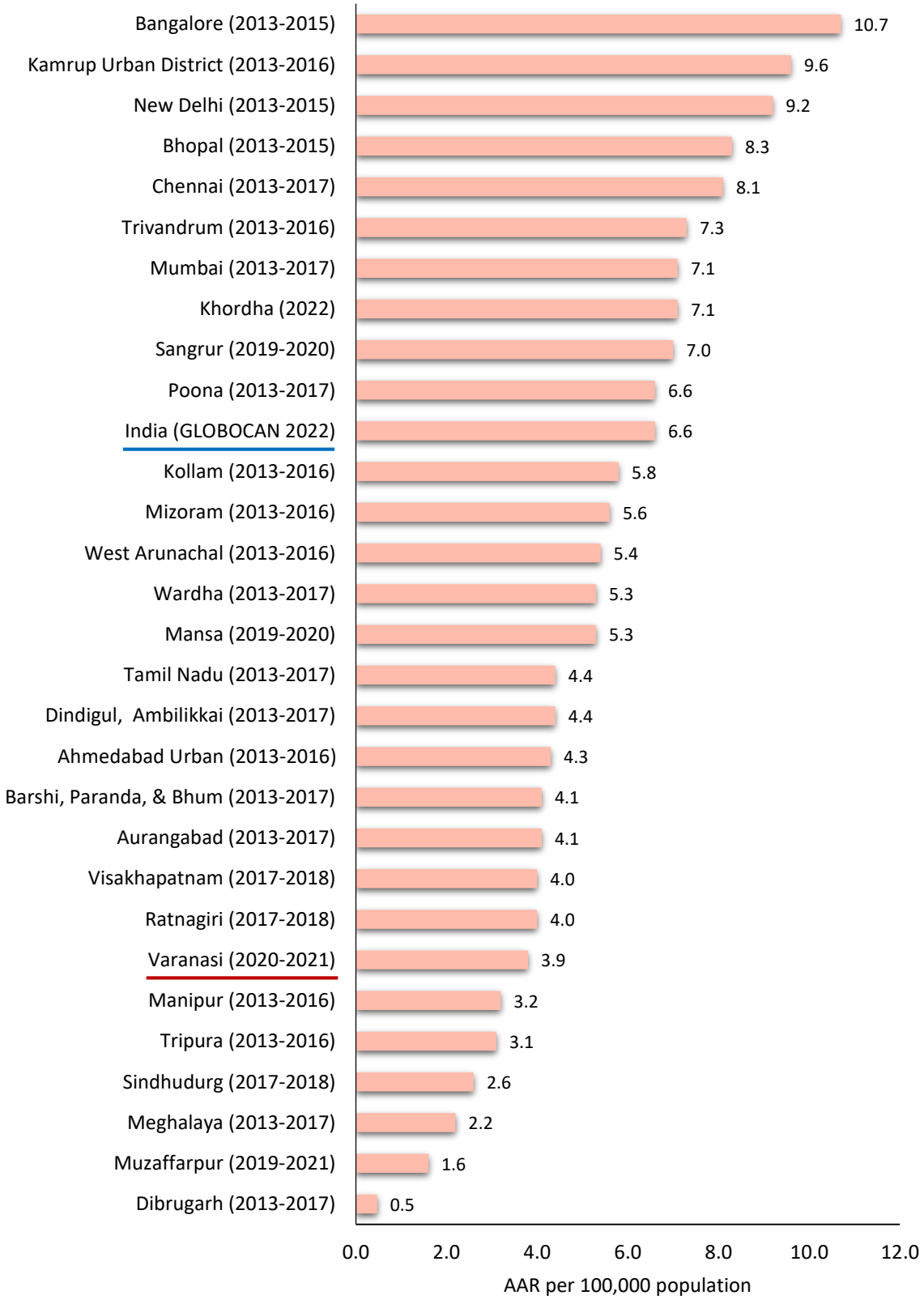
**Figure 45: Age-adjusted incidence rate of cervical cancer**




(References: 5, 9-18)

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

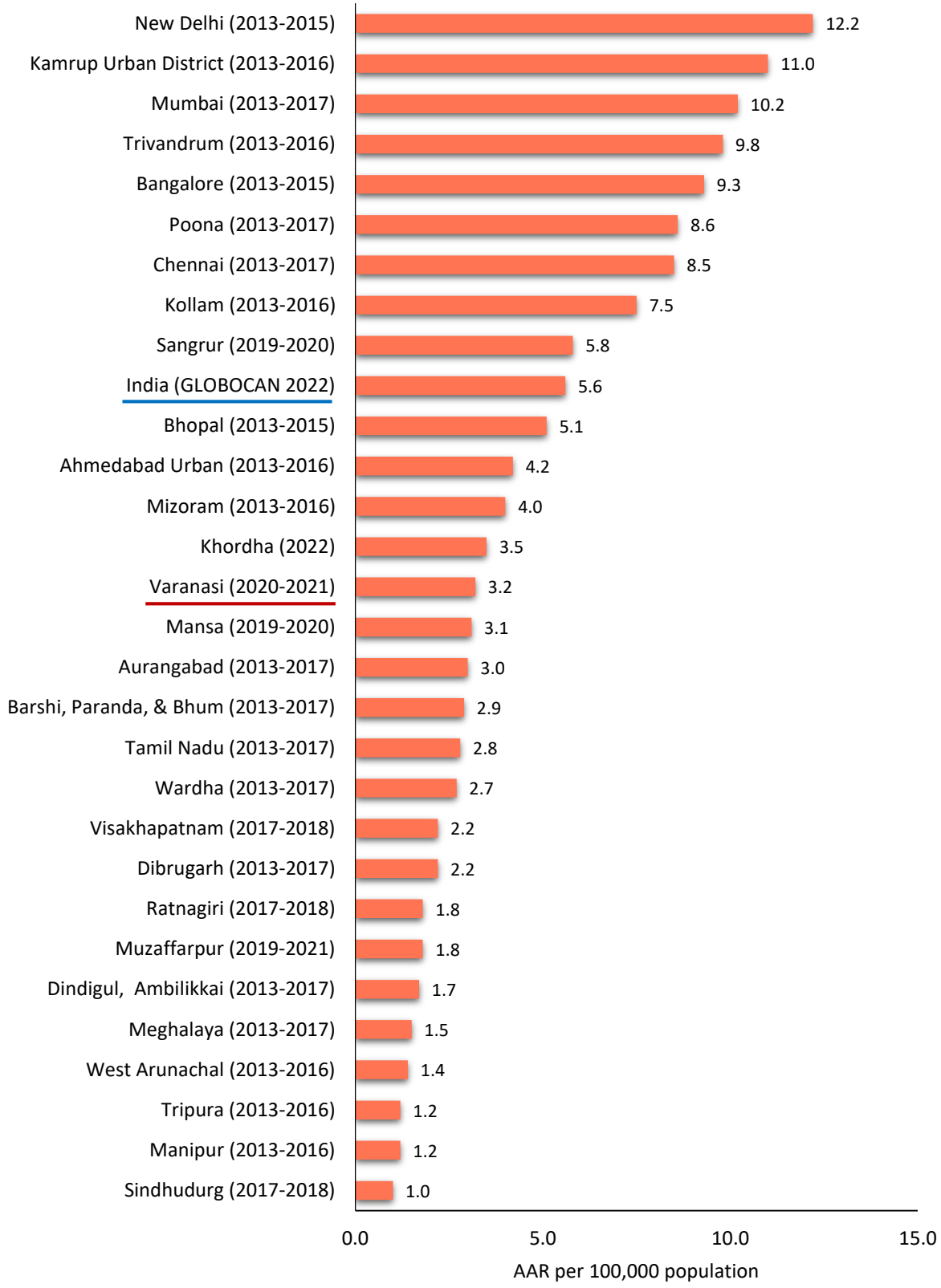
**Figure 46: Age-adjusted incidence rate of ovary cancer**




(References: 5, 9-18)

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 47.

**Figure 47: Age-adjusted incidence rate of prostate cancer**




(References: 5, 9-18)

# 17. The COVID-19 pandemic effect

**Introduction**

The COVID-19 pandemic severely disrupted healthcare systems across the globe, including routine surveillance and registry activities. India imposed a nationwide lockdown from March 24 to May 31, 2020, followed by phased relaxations. The second wave of COVID-19 in 2021 was particularly devastating, peaking on May 1, 2021, with more than 400,000 daily cases nationwide. Varanasi district recorded over 70,600 infections and nearly 700 officially reported deaths. With healthcare facilities overwhelmed, many hospitals were converted into COVID-19 isolation centres, and critical non-COVID services, including cancer care and registration, were disrupted.

Cancer registration relies on an active case-finding approach, which involves consistent field visits, access to medical and diagnostic records, and direct interaction with patients, their families, and healthcare providers. The journey to compile the third-year report was directly impacted by the COVID-19 pandemic, which posed unprecedented challenges to cancer data collection, community interaction, and case-confirmation. This chapter presents findings from two studies conducted during the COVID period, reflecting on the challenges faced during cancer registration and the strategies adopted by the PBCR staff to overcome these hurdles.

**Challenges faced by PBCR team**

A qualitative exploration of the PBCR staff experiences between May 2020 to June 2021 provides critical insights into the hurdles encountered and the adaptive strategies that enabled continuity of cancer registration during this global health crisis.

**1. Difficult Working Conditions**

- **Restricted mobility:** Public transport shutdowns and travel restrictions prevented field investigators from accessing communities, diagnostic laboratories, and hospitals.
- **Safety concerns:** Staff had limited access to personal protective equipment (PPE), such as masks and sanitizers. Fear of COVID-19 transmission further restricted in-person activities.
- **Workplace limitations:** Registry operations were constrained by social-distancing protocols, with only 50% of staff allowed in offices. Vaccination access for registry staff during the second wave was also delayed.

**2. Hurdles in active case finding**

- **Disrupted access to medical records:** Many treatment centres and diagnostic facilities restricted access to patient data. Several hospitals were repurposed exclusively for COVID care.
- **Resistance from stakeholders:** Healthcare workers, such as ASHAs and ANMs, were preoccupied with pandemic response, limiting their support for cancer registration.

- **Restricted death records:** Access to mortality data from civil registration offices was halted, complicating verification of cancer-related deaths.

- **Community fear:** Patients, families, and community informants often refused in-person interaction, fearing COVID testing or infection.

**3. Manpower crisis**

- Registry staff and their family members contracted COVID-19 during both waves, necessitating sick leave and quarantine. While no staff resigned and salaries were disbursed on time, the temporary reduction in workforce slowed operations.

**4. Patient-related barriers**

- Many cancer patients were unable to access timely treatment during lockdowns, leading to frustration and reluctance to engage with registry staff.

- Some patients and families were unwilling to share information due to dissatisfaction with care or fear of infection.

**Adaptive local measures by PBCR team**

Despite severe constraints, the PBCR team in Varanasi implemented several innovative strategies to sustain registry activities:

- **Remote work adaptation:** Staff shifted to work-from-home settings, focusing on data abstraction, cleaning, and ICD-O coding.

- **Telephonic follow-up:** Patients and their families were contacted via phone to collect missing data and confirm diagnoses.

- **Digital solutions:** To sustain registry activities during the lockdown, staff relied on digital communication tools for data abstraction and verification. Wherever possible, electronic medical records (EMRs) were accessed through secure channels. In some instances, pragmatic use of commonly available platforms (e.g., email, messaging applications) was adopted for the timely exchange of information**.** However, this raised challenges related to data security, confidentiality, and standardisation. These experiences highlight the urgent need for a dedicated, secure digital infrastructure to support cancer registries during emergencies. Registry staff had no option but to share medical records through online platforms, including email and WhatsApp.

- **Quality improvement:** The lockdown period was effectively used to review, validate, and update registry forms, and also for quality check and control.

- **Institutional support:** Collaboration with hospital administration and technical oversight from the Centre for Cancer Epidemiology (CCE), Mumbai, ensured continuity of registry operations.

**Evidence from a Retrospective Cohort Study on Cancer Care Disruptions**

To complement registry-level observations, a retrospective cohort study was conducted at the Tata Memorial Centre, Varanasi, to assess disruptions, barriers, and resilience of cancer care during the pandemic.

**Study Population**

The study included 798 cancer patients who had registered for care between September 23, 2019, and March 23, 2020, representing the six months immediately preceding the nationwide lockdown in India. Patients were followed for six months from their date of registration (DOR) through a combination of electronic medical records (EMRs) and telephonic interviews, providing a dual source of quantitative and qualitative data. This allowed the investigators to capture both objective treatment disruptions (e.g., delays, missed visits) and subjective experiences (e.g., fear, financial strain).

**Reported barriers to cancer care**

The pandemic created multi-dimensional challenges for patients, ranging from logistical hurdles to psychosocial concerns. The main barriers reported were:

- **Inability to visit hospitals due to lockdown extension (57%):** Many patients who had initiated or were due to initiate treatment were unable to travel to the tertiary centres. Lockdowns, curfews, and sealing of district borders prevented routine movement even for medical reasons, and obtaining travel passes was cumbersome.

- **Closure of public transportation (53%):** Public transport shutdowns compounded the problem, as the majority of patients belonged to rural or semi-urban areas and were highly dependent on trains and buses for reaching hospitals. Private transport was either unavailable or unaffordable, especially for those requiring multiple hospital visits.

- **Lack of accommodation during treatment (52.4%):** Cancer patients often rely on dharamshalas, guest houses, or hospital-linked accommodations during extended treatment regimens. With the closure of many such facilities during lockdowns, patients were left without secure places to stay near treatment centres. This barrier disproportionately affected those undergoing prolonged therapies like chemotherapy or radiotherapy.

- **Resort to alternative therapies (7.4%):** A small proportion of patients turned to unproven alternative treatments, primarily due to a lack of access to conventional care and a fear of contracting COVID-19 in hospital settings. This highlights both the vulnerability of patients in crises and the persistent challenges of health literacy.

- **Refusal of treatment due to COVID-related fears (9.5%):** A segment of patients consciously deferred or declined treatment altogether, fearing exposure to COVID-19 within healthcare facilities. This was particularly noted among older patients, those with comorbidities and those under palliation, reflecting widespread anxiety and mistrust during the pandemic's peak.

**Hospital resilience and adaptive strategies**

Despite these barriers, both participating cancer centres demonstrated significant resilience, maintaining essential cancer services throughout the pandemic. Notably, services were never completely shut down, even during the peak of the first and second waves. Key adaptive measures included:

- **Telemedicine and online appointments:** Hospitals rapidly scaled up their teleconsultation platforms, allowing follow-up consultations, prescription renewals, and counselling sessions to be conducted remotely. This not only reduced the risk of infection but also alleviated the need for patients to travel long distances for routine visits.

- **Localstay arrangements for patients:** Recognizing the closure of traditional lodging facilities, hospitals facilitated temporary accommodation through partnerships with local NGOs, community guesthouses, and charitable trusts. This ensured that patients undergoing continuous treatments**,** such as radiotherapy and chemotherapy, could remain close to their treatment facilities.

- **Strengthened referral networks:** To minimize travel and disruption, hospitals developed strong referral linkages with nearby cancer-treating centres closer to patients' residences. Patients were guided to alternative treatment centres within their districts or neighbouring states whenever feasible. This decentralised approach helped reduce treatment abandonment and improve continuity of care.

- **Safety and infection control protocols:** Hospitals implemented stringent screening, masking, and sanitization protocols, which reassured patients and staff. Cancer wards were physically segregated from COVID care facilities, preserving "safe zones" for oncology care.

- **Patient support systems:** Hospital-based helplines and counselling services were strengthened, allowing patients to seek guidance on treatment schedules, hospital entry requirements, and accommodation. This proactive engagement built trust and encouraged treatment adherence.

**Implications for cancer registries**

The barriers and resilience measures identified in this cohort directly intersected with registry operations. Patient's inability to reach hospitals or reliance on alternative care pathways reduced the visibility of cancer cases in registry records. Conversely, hospital innovation, such as telemedicine and referral networks, created new opportunities for registries to adapt their data collection methods by leveraging EMRs and cross-institutional collaborations.

**Lessons learned**

1. **Digital readiness is indispensable:** The rapid shift to remote data abstraction, telephonic follow-up, and electronic medical records has highlighted the value of digital tools. However, the reliance on ad-hoc platforms underscored the urgent need for secure, standardized digital infrastructure for registries.

2. **Integration of registry and hospital systems enhances resilience:** Cancer registries cannot function in isolation. A strong linkage with hospital innovations, such as telemedicine, online appointments, referral networks, and patient support systems, ensures continuity of both care and data flow during public health crises.

3. **Preparedness planning must be embedded in registry operations:** Public health emergencies will recur. Cancer registries need contingency plans, including flexible staffing models, remote work protocols, and emergency SOPs for data collection, to minimize disruptions.

4. **Community trust and engagement are critical:** Fear, misinformation, and dissatisfaction among patients and families created barriers to data collection. Building transparent communication channels, patient counselling, and community engagement strategies is essential for registry acceptance and cooperation during crises.

5. **Supportive leadership and institutional backing sustain morale and continuity:** The uninterrupted salaries, administrative support, and technical guidance from the Centre for Cancer Epidemiology (CCE) and hospital management were vital in keeping registry operations functional. Such institutional commitment is critical for resilience in future emergencies.

# 18. 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 2020 to 31st December 2021 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 2020 to 31st December 2021 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.

$$CIR = \frac{\text{Number of new cancer cases observed in the period 2020-2021} * 100{,}000}{\text{Estimated population of the same year}}$$

This rate is also called the crude rate because it relates to each population as a whole and is influenced by the age structure of each population.

**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.

# 19. Standard registry tables

**Table 24: Number of incidence cancers by five-year age group and site (ICD 10): 2020-2021**
**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 | - | 3 | 3 | 8 | 6 | 5 | 5 | 9 | 5 | - | - | **45** | **1.8** |
| C01-C02 | Tongue | - | - | - | - | 1 | 10 | 15 | 30 | 45 | 29 | 27 | 17 | 15 | 16 | 8 | 12 | **225** | **8.9** |
| C03-C06 | Mouth | - | - | - | - | 3 | 9 | 34 | 63 | 95 | 112 | 110 | 75 | 71 | 48 | 31 | 14 | **665** | **26.5** |
| C07-C08 | Salivary glands | - | - | - | - | 2 | - | - | - | 1 | 1 | 2 | 4 | - | 4 | 3 | 1 | **18** | **0.7** |
| C09 | Tonsil | - | - | - | - | - | - | - | - | 3 | - | 1 | 2 | 2 | 2 | - | 1 | **11** | **0.4** |
| C10 | Other oropharynx | - | - | - | - | - | - | - | 1 | 2 | - | 1 | 1 | 1 | 3 | 1 | 2 | **12** | **0.5** |
| C11 | Nasopharynx | - | - | - | - | - | - | - | 1 | - | 1 | 1 | 1 | - | - | - | - | **4** | **0.2** |
| C12-C13 | Hypopharynx | - | - | - | - | - | - | - | - | 1 | 1 | - | 3 | 7 | 5 | 4 | 4 | **25** | **1.0** |
| C14 | Pharynx unspecified | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 1 | **3** | **0.1** |
| C15 | Oesophagus | - | - | - | - | - | - | - | - | 1 | 1 | 9 | 12 | 10 | 9 | 7 | 5 | **54** | **2.1** |
| C16 | Stomach | - | - | - | 1 | 1 | 2 | 2 | 4 | 3 | 4 | 5 | 6 | 9 | 8 | 2 | 3 | **50** | **2.0** |
| C17 | Small intestine | - | - | - | - | 1 | 1 | - | 1 | - | 2 | 1 | 1 | - | - | - | - | **7** | **0.3** |
| C18 | Colon | - | - | - | 1 | 3 | 1 | - | 3 | 7 | 5 | 3 | 4 | 2 | 8 | 5 | - | **42** | **1.7** |
| C19-C20 | Rectum | - | - | - | 5 | 1 | 2 | 2 | 2 | 1 | 1 | 4 | 4 | 8 | 6 | 1 | 1 | **38** | **1.5** |
| C21 | Anus | - | - | - | 1 | - | 2 | 1 | - | - | - | 2 | 3 | - | - | - | 1 | **10** | **0.4** |
| C22 | Liver | 1 | 1 | - | - | 2 | - | 5 | 6 | 6 | 8 | 9 | 3 | 17 | 22 | 15 | 11 | **106** | **4.2** |
| C23-C24 | Gallbladder etc. | - | - | - | - | - | 4 | 2 | 9 | 11 | 17 | 16 | 27 | 27 | 25 | 11 | 14 | **163** | **6.5** |
| C25 | Pancreas | - | - | - | - | - | 1 | 2 | 1 | 2 | 5 | 5 | 1 | 3 | 5 | 5 | 4 | **34** | **1.4** |
| C30-C31 | Nose, sinuses etc. | - | - | - | - | 2 | - | 1 | 3 | - | 2 | 1 | - | - | - | - | 1 | **10** | **0.4** |
| C32 | Larynx | - | - | - | - | - | - | 1 | 1 | 1 | 7 | 6 | 9 | 12 | 12 | 6 | 8 | **63** | **2.5** |
| C33-C34 | Trachea, bronchus and lung | - | - | - | - | 3 | - | 3 | 3 | 3 | 7 | 6 | 22 | 26 | 34 | 20 | 23 | **150** | **6.0** |
| C37-C38 | Other thoracic organs | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 | 2 | - | 2 | 1 | **8** | **0.3** |
| C40-C41 | Bone | - | 1 | 1 | 3 | 6 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 3 | **33** | **1.3** |
| C43 | Melanoma of skin | - | - | - | - | - | - | - | - | 1 | - | - | 2 | 3 | 2 | - | - | **8** | **0.3** |
| C44 | Other skin | - | - | - | - | - | 1 | 1 | 2 | - | - | 3 | - | 6 | 4 | 3 | 3 | **23** | **0.9** |
| C45 | Mesothelioma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C46 | Kaposi sarcoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C47,C49 | Connective and soft tissue | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 6 | - | **27** | **1.1** |
| C50 | Breast | - | - | - | - | - | - | - | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | **8** | **0.3** |
| C60 | Penis | - | - | - | - | - | - | 1 | 1 | - | 1 | - | 6 | - | 5 | 3 | 2 | **19** | **0.8** |
| C61 | Prostate | - | - | - | - | - | 1 | - | 1 | - | 3 | 4 | 7 | 24 | 28 | 22 | 23 | **113** | **4.5** |
| C62 | Testis | 3 | - | - | 3 | 1 | 2 | 7 | 3 | 3 | 2 | 1 | 1 | | | | | **26** | **1.0** |
| C63 | Other male genital organs | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | **3** | **0.1** |
| C64 | Kidney | 2 | - | - | - | 1 | | | 2 | 3 | 4 | 2 | 4 | 6 | 6 | 4 | 4 | **38** | **1.5** |
| C65 | Renal pelvis | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C66 | Ureter | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C67 | Bladder | - | - | - | 1 | - | - | - | - | 1 | 4 | 9 | 5 | 5 | 8 | 3 | 9 | **45** | **1.8** |
| C68 | Other urinary organs | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | **1** | **0.0** |
| C69 | Eye | 5 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | **6** | **0.2** |
| C70-C72 | Brain, nervous system | 4 | 2 | - | 1 | 4 | 3 | 4 | | 2 | 1 | 4 | 3 | 4 | 5 | 6 | 1 | **44** | **1.8** |
| C73 | Thyroid | - | - | - | - | 2 | - | - | 1 | 1 | - | 1 | 1 | 2 | 3 | - | - | **11** | **0.4** |
| C74 | Adrenal gland | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | **2** | **0.1** |
| C75 | Other adrenal gland | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | **1** | **0.0** |
| C81 | Hodgkin disease | - | 2 | 4 | 1 | 2 | 2 | 2 | - | - | 1 | - | 1 | - | 1 | - | 1 | **17** | **0.7** |
| C82-C86,C96 | Non-Hodgkin lymphoma | 4 | 5 | 4 | 2 | 1 | 6 | 1 | 3 | 6 | 3 | 7 | 12 | 8 | 6 | 3 | 4 | **75** | **3.0** |
| C88 | Immunoproliferative diseases | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | **1** | **0.0** |
| C90 | Multiple myeloma | - | - | - | - | - | - | - | 1 | 1 | 2 | 8 | 7 | 6 | 7 | 4 | 3 | **39** | **1.6** |
| C91 | Lymphoid leukaemia | 4 | 6 | 2 | 3 | 4 | 1 | 1 | 1 | | | 3 | 3 | 2 | 3 | 2 | | **35** | **1.4** |
| C92-C94 | Myeloid leukaemia | - | 2 | 2 | 3 | 4 | 6 | 5 | 2 | 4 | 2 | 3 | 1 | 4 | 1 | 1 | 2 | **42** | **1.7** |
| C95 | Leukaemia unspecified | 4 | 1 | 2 | 3 | 3 | 1 | - | 2 | 2 | - | - | 1 | 2 | 1 | - | - | **22** | **0.9** |
| Other & Unspecified* | | 1 | - | 1 | 4 | 2 | 5 | 4 | 6 | 7 | 11 | 11 | 15 | 16 | 22 | 14 | 13 | **132** | **5.3** |
| | **Total** | **31** | **21** | **19** | **33** | **51** | **65** | **102** | **161** | **225** | **248** | **274** | **276** | **316** | **318** | **197** | **177** | **2514** | **100.0** |

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

## Table 25: Number of incidence cancers by five-year age group and site (ICD 10): 2020-2021
## 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 | 1 | 2 | - | - | 1 | - | - | **6** | **0.3** |
| C01-C02 | Tongue | - | - | - | - | - | - | 2 | 3 | 6 | 9 | 4 | 6 | 6 | 4 | 6 | 4 | **50** | **2.6** |
| C03-C06 | Mouth | - | - | - | - | - | 1 | - | 6 | 8 | 14 | 15 | 6 | 11 | 6 | 7 | 2 | **76** | **3.9** |
| C07-C08 | Salivary glands | - | - | - | - | - | - | 1 | 1 | - | 2 | - | 1 | - | - | - | - | **5** | **0.3** |
| C09 | Tonsil | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | 1 | - | **4** | **0.2** |
| C10 | Other oropharynx | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C11 | Nasopharynx | - | - | - | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | **3** | **0.2** |
| C12-C13 | Hypopharynx | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | **2** | **0.1** |
| C14 | Pharynx unspecified | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C15 | Oesophagus | - | - | - | - | - | 1 | - | - | 2 | 5 | 2 | 6 | 3 | 3 | 5 | 4 | **31** | **1.6** |
| C16 | Stomach | - | - | - | - | 1 | 1 | 3 | 5 | 2 | 7 | 7 | 4 | 10 | 2 | 5 | 4 | **51** | **2.6** |
| C17 | Small intestine | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | **2** | **0.1** |
| C18 | Colon | - | - | - | - | - | 3 | 1 | - | 2 | 1 | 3 | 1 | 3 | 1 | - | 2 | **17** | **0.9** |
| C19-C20 | Rectum | - | - | - | 1 | - | 1 | 2 | 1 | - | - | 4 | 4 | 2 | 3 | 1 | 1 | **20** | **1.0** |
| C21 | Anus | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | **3** | **0.2** |
| C22 | Liver | 1 | - | - | - | 2 | 3 | - | 2 | 3 | 8 | 10 | 8 | 12 | 8 | 4 | 3 | **64** | **3.3** |
| C23-C24 | Gallbladder etc. | - | - | - | - | 1 | 2 | 7 | 27 | 23 | 27 | 46 | 37 | 39 | 28 | 22 | 15 | **274** | **14.2** |
| C25 | Pancreas | - | - | - | - | 1 | - | 1 | - | 3 | 1 | 5 | 3 | 3 | 3 | 3 | 3 | **26** | **1.3** |
| C30-C31 | Nose, sinuses etc. | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | **2** | **0.1** |
| C32 | Larynx | - | - | - | - | - | - | 1 | 1 | 1 | - | 1 | - | 1 | 6 | - | - | **11** | **0.6** |
| C33-C34 | Trachea, bronchus and lung | - | - | - | - | - | 1 | 2 | 2 | 7 | 10 | 15 | 11 | 8 | 16 | 8 | 6 | **86** | **4.5** |
| C37-C38 | Other thoracic organs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C40-C41 | Bone | - | 1 | 2 | 1 | 3 | - | 3 | 2 | 3 | - | - | 1 | 1 | 2 | 1 | 1 | **21** | **1.1** |
| C43 | Melanoma of skin | - | - | - | - | - | - | 2 | - | - | 1 | 1 | 1 | - | 1 | 1 | - | **7** | **0.4** |
| C44 | Other skin | - | - | - | - | - | - | - | - | - | 1 | 3 | 2 | 2 | - | 1 | - | **9** | **0.5** |
| C45 | Mesothelioma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C46 | Kaposi sarcoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C47,C49 | Connective and soft tissue | - | 1 | - | 1 | - | 1 | 2 | - | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | **12** | **0.6** |
| C50 | Breast | - | - | - | - | 3 | 17 | 29 | 46 | 57 | 72 | 64 | 52 | 40 | 31 | 20 | 18 | **449** | **23.2** |
| C51 | Vulva | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 | **4** | **0.2** |
| C52 | Vagina | - | - | - | - | - | - | 1 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | - | - | **18** | **0.9** |
| C53 | Cervix uteri | - | - | - | - | - | 1 | 4 | 8 | 20 | 34 | 26 | 16 | 26 | 17 | 10 | 10 | **172** | **8.9** |
| C54 | Corpus uteri | - | - | - | - | - | 1 | 1 | - | 2 | 6 | 10 | 10 | 5 | 9 | 6 | 4 | **54** | **2.8** |
| C55 | Uterus unspecified | - | - | - | - | - | - | - | 1 | 1 | 1 | 2 | - | 1 | 1 | 1 | 2 | **10** | **0.5** |
| C56 | Ovary | 1 | - | 2 | 4 | 1 | 3 | 9 | 22 | 12 | 22 | 22 | 14 | 14 | 7 | 5 | 5 | **143** | **7.4** |
| C57 | Other female genital organs | - | - | - | - | - | 1 | - | - | 1 | 3 | - | - | 1 | 2 | - | - | **8** | **0.4** |
| C58 | Placenta | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C64 | Kidney | 3 | - | - | - | - | - | 2 | 1 | - | 5 | - | - | 2 | - | - | - | **13** | **0.7** |
| C65 | Renal pelvis | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | **1** | **0.1** |
| C66 | Ureter | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C67 | Bladder | - | - | - | - | - | - | - | - | 1 | 2 | - | 1 | 1 | 5 | 1 | 1 | **12** | **0.6** |
| C68 | Other urinary organs | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | **1** | **0.1** |
| C69 | Eye | 1 | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | **3** | **0.2** |
| C70-C72 | Brain, nervous system | 1 | 1 | - | - | - | 2 | 1 | 4 | 4 | 2 | 3 | 5 | 3 | - | - | 3 | **29** | **1.5** |
| C73 | Thyroid | - | - | - | 2 | 2 | 5 | 4 | - | - | 2 | 3 | 2 | 3 | 4 | 2 | 3 | **32** | **1.7** |
| C74 | Adrenal gland | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **1** | **0.1** |
| C75 | Other adrena gland | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C81 | Hodgkin disease | 1 | - | 2 | - | 1 | 1 | - | - | 2 | - | - | 1 | 1 | 1 | - | - | **10** | **0.5** |
| C82-C86,C96 | Non-Hodgkin lymphoma | 1 | - | 1 | 1 | 2 | 1 | 2 | - | 5 | 3 | 3 | 4 | 5 | 4 | 3 | 3 | **38** | **2.0** |
| C88 | Immunoproliferative diseases | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C90 | Multiple myeloma | - | - | - | - | - | - | - | 1 | 2 | 3 | 5 | 1 | - | 2 | 2 | 1 | **17** | **0.9** |
| C91 | Lymphoid leukaemia | 2 | 3 | 1 | - | - | - | 1 | - | 2 | 1 | 1 | 1 | - | - | 1 | - | **13** | **0.7** |
| C92-C94 | Myeloid leukaemia | - | 1 | 2 | 4 | 1 | 5 | 4 | 4 | 2 | 3 | 2 | 4 | 2 | - | - | - | **34** | **1.8** |
| C95 | Leukaemia unspecified | - | 1 | - | 3 | 1 | - | - | - | 3 | 2 | 2 | 2 | - | - | - | - | **14** | **0.7** |
| Other & Unspecified* | | 1 | 1 | 1 | 3 | 1 | 2 | 3 | 2 | 1 | 9 | 5 | 13 | 13 | 7 | 6 | 6 | **74** | **3.8** |
| | **Total** | **13** | **10** | **11** | **21** | **22** | **53** | **88** | **143** | **180** | **264** | **273** | **221** | **224** | **180** | **125** | **104** | **1932** | **100.0** |

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

## Table 26: Average annual Age-Specific, Crude (CR), Age-Adjusted (AAR) and Truncated (35-64 yrs) (TR) incidence rate per 100,000 population: 2020-2021 – 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 | - | - | - | - | 0.2 | - | 1.0 | 1.0 | 3.2 | 2.8 | 3.0 | 3.6 | 6.5 | 4.9 | - | - | **1.0** | **1.2** | **3.1** |
| C01-C02 | - | - | - | - | 0.2 | 2.8 | 5.0 | 10.2 | 18.3 | 13.4 | 16.1 | 12.3 | 10.8 | 15.8 | 11.7 | 15.1 | **5.2** | **5.8** | **13.7** |
| C03-C06 | - | - | - | - | 0.6 | 2.5 | 11.3 | 21.3 | 38.5 | 51.8 | 65.5 | 54.3 | 51.3 | 47.4 | 45.4 | 17.7 | **15.5** | **17.8** | **45.8** |
| C07-C08 | - | - | - | - | 0.4 | - | - | - | 0.4 | 0.5 | 1.2 | 2.9 | - | 4.0 | 4.4 | 1.3 | **0.4** | **0.5** | **0.7** |
| C09 | - | - | - | - | - | - | - | - | 1.2 | - | 0.6 | 1.4 | 1.4 | 2.0 | - | 1.3 | **0.3** | **0.3** | **0.7** |
| C10 | - | - | - | - | - | - | - | 0.3 | 0.8 | - | 0.6 | 0.7 | 0.7 | 3.0 | 1.5 | 2.5 | **0.3** | **0.3** | **0.5** |
| C11 | - | - | - | - | - | - | - | 0.3 | - | 0.5 | 0.6 | 0.7 | - | - | - | - | **0.1** | **0.1** | **0.3** |
| C12-C13 | - | - | - | - | - | - | - | - | 0.4 | 0.5 | - | 2.2 | 5.1 | 4.9 | 5.9 | 5.0 | **0.6** | **0.7** | **1.1** |
| C14 | - | - | - | - | - | - | - | - | - | - | - | 0.7 | - | - | 1.5 | 1.3 | **0.1** | **0.1** | **0.1** |
| C15 | - | - | - | - | - | - | - | - | 0.4 | 0.5 | 5.4 | 8.7 | 7.2 | 8.9 | 10.2 | 6.3 | **1.3** | **1.6** | **3.1** |
| C16 | - | - | - | 0.2 | 0.2 | 0.6 | 0.7 | 1.4 | 1.2 | 1.8 | 3.0 | 4.3 | 6.5 | 7.9 | 2.9 | 3.8 | **1.2** | **1.3** | **2.7** |
| C17 | - | - | - | - | 0.2 | 0.3 | - | 0.3 | - | 0.9 | 0.6 | 0.7 | - | - | - | - | **0.2** | **0.2** | **0.4** |
| C18 | - | - | - | 0.2 | 0.6 | 0.3 | - | 1.0 | 2.8 | 2.3 | 1.8 | 2.9 | 1.4 | 7.9 | 7.3 | - | **1.0** | **1.1** | **2.0** |
| C19-C20 | - | - | - | 0.9 | 0.2 | 0.6 | 0.7 | 0.7 | 0.4 | 0.5 | 2.4 | 2.9 | 5.8 | 5.9 | 1.5 | 1.3 | **0.9** | **1.0** | **1.8** |
| C21 | - | - | - | 0.2 | - | 0.6 | 0.3 | - | - | - | 1.2 | 2.2 | - | - | - | 1.3 | **0.2** | **0.3** | **0.5** |
| C22 | 0.4 | 0.3 | - | - | 0.4 | - | 1.7 | 2.0 | 2.4 | 3.7 | 5.4 | 2.2 | 12.3 | 21.7 | 22.0 | 13.9 | **2.5** | **2.9** | **4.3** |
| C23-C24 | - | - | - | - | - | 1.1 | 0.7 | 3.0 | 4.5 | 7.9 | 9.5 | 19.5 | 19.5 | 24.7 | 16.1 | 17.7 | **3.8** | **4.5** | **9.5** |
| C25 | - | - | - | - | - | 0.3 | 0.7 | 0.3 | 0.8 | 2.3 | 3.0 | 0.7 | 2.2 | 4.9 | 7.3 | 5.0 | **0.8** | **0.9** | **1.5** |
| C30-C31 | - | - | - | - | 0.4 | - | 0.3 | 1.0 | - | 0.9 | 0.6 | - | - | - | - | 1.3 | **0.2** | **0.2** | **0.5** |
| C32 | - | - | - | - | - | - | 0.3 | 0.3 | 0.4 | 3.2 | 3.6 | 6.5 | 8.7 | 11.9 | 8.8 | 10.1 | **1.5** | **1.8** | **3.3** |
| C33-C34 | - | - | - | - | 0.6 | - | 1.0 | 1.0 | 1.2 | 3.2 | 3.6 | 15.9 | 18.8 | 33.6 | 29.3 | 29.0 | **3.5** | **4.2** | **6.1** |
| C37-C38 | - | - | - | - | - | 0.3 | - | - | - | - | 0.6 | 0.7 | 1.4 | - | 2.9 | 1.3 | **0.2** | **0.2** | **0.4** |
| C40-C41 | - | 0.3 | 0.2 | 0.5 | 1.3 | 0.6 | 1.0 | 0.3 | 0.8 | 1.4 | 0.6 | 1.4 | 1.4 | 1.0 | 2.9 | 3.8 | **0.8** | **0.8** | **1.0** |
| C43 | - | - | - | - | - | - | - | - | 0.4 | - | - | 1.4 | 2.2 | 2.0 | - | - | **0.2** | **0.2** | **0.5** |
| C44 | - | - | - | - | - | 0.3 | 0.3 | 0.7 | - | - | 1.8 | - | 4.3 | 4.0 | 4.4 | 3.8 | **0.5** | **0.6** | **1.0** |
| C45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C46 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C47,C49 | 0.7 | 0.3 | 0.4 | 0.2 | 0.2 | 0.6 | 0.7 | 1.0 | 0.4 | 0.5 | 0.6 | 0.7 | 1.4 | 1.0 | 8.8 | - | **0.6** | **0.7** | **0.7** |
| C50 | - | - | - | - | - | - | - | 0.3 | - | 0.5 | 0.6 | 0.7 | 0.7 | 1.0 | 1.5 | 1.3 | **0.2** | **0.2** | **0.4** |
| C60 | - | - | - | - | - | - | 0.3 | 0.3 | - | 0.5 | - | 4.3 | - | 4.9 | 4.4 | 2.5 | **0.4** | **0.5** | **0.7** |
| C61 | - | - | - | - | - | 0.3 | - | 0.3 | - | 1.4 | 2.4 | 5.1 | 17.3 | 27.7 | 32.2 | 29.0 | **2.6** | **3.2** | **3.6** |
| C62 | 1.1 | - | - | 0.5 | 0.2 | 0.6 | 2.3 | 1.0 | 1.2 | 0.9 | 0.6 | 0.7 | - | - | - | - | **0.6** | **0.6** | **0.8** |
| C63 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.0 | 1.5 | 1.3 | **0.1** | **0.1** | **-** |
| C64 | 0.7 | - | - | - | 0.2 | - | - | 0.7 | 1.2 | 1.8 | 1.2 | 2.9 | 4.3 | 5.9 | 5.9 | 5.0 | **0.9** | **1.1** | **1.8** |
| C65 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C66 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C67 | - | - | - | 0.2 | - | - | - | - | 0.4 | 1.8 | 5.4 | 3.6 | 3.6 | 7.9 | 4.4 | 11.4 | **1.0** | **1.3** | **2.2** |
| C68 | - | - | - | - | - | - | - | - | 0.4 | - | - | - | - | - | - | - | **0.02** | **0.02** | **0.1** |
| C69 | 1.8 | - | - | - | - | - | - | - | - | - | - | - | 0.7 | - | - | - | **0.1** | **0.2** | **0.1** |
| C70-C72 | 1.5 | 0.5 | - | 0.2 | 0.9 | 0.8 | 1.3 | - | 0.8 | 0.5 | 2.4 | 2.2 | 2.9 | 4.9 | 8.8 | 1.3 | **1.0** | **1.2** | **1.3** |
| C73 | - | - | - | - | 0.4 | - | - | 0.3 | 0.4 | - | 0.6 | 0.7 | 1.4 | 3.0 | - | - | **0.3** | **0.3** | **0.5** |
| C74 | 0.4 | - | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | **0.05** | **0.1** | **-** |
| C75 | - | - | - | - | - | - | - | - | - | - | - | 0.7 | - | - | - | - | **0.02** | **0.03** | **0.1** |
| C81 | - | 0.5 | 0.8 | 0.2 | 0.4 | 0.6 | 0.7 | - | - | 0.5 | - | 0.7 | - | 1.0 | - | 1.3 | **0.4** | **0.4** | **0.2** |
| C82-C86,C96 | 1.5 | 1.3 | 0.8 | 0.4 | 0.2 | 1.7 | 0.3 | 1.0 | 2.4 | 1.4 | 4.2 | 8.7 | 5.8 | 5.9 | 4.4 | 5.0 | **1.7** | **2.0** | **3.5** |
| C88 | - | - | - | - | - | - | - | - | - | - | - | - | 0.7 | - | - | - | **0.02** | **0.03** | **0.1** |
| C90 | - | - | - | - | - | - | - | 0.3 | 0.4 | 0.9 | 4.8 | 5.1 | 4.3 | 6.9 | 5.9 | 3.8 | **0.9** | **1.1** | **2.3** |
| C91 | 1.5 | 1.6 | 0.4 | 0.5 | 0.9 | 0.3 | 0.3 | 0.3 | - | - | 1.8 | 2.2 | 1.4 | 3.0 | 2.9 | - | **0.8** | **0.9** | **0.8** |
| C92-C94 | - | 0.5 | 0.4 | 0.5 | 0.9 | 1.7 | 1.7 | 0.7 | 1.6 | 0.9 | 1.8 | 0.7 | 2.9 | 1.0 | 1.5 | 2.5 | **1.0** | **1.0** | **1.4** |
| C95 | 1.5 | 0.3 | 0.4 | 0.5 | 0.6 | 0.3 | - | 0.7 | 0.8 | - | - | 0.7 | 1.4 | 1.0 | - | - | **0.5** | **0.6** | **0.6** |
| O&U | 0.4 | - | 0.2 | 0.7 | 0.4 | 1.4 | 1.3 | 2.0 | 2.8 | 5.1 | 6.5 | 10.9 | 11.6 | 21.7 | 20.5 | 16.4 | **3.1** | **3.6** | **5.9** |
| **Total** | **11.4** | **5.4** | **3.8** | **5.9** | **10.9** | **18.1** | **34.0** | **54.5** | **91.3** | **114.7** | **163.1** | **199.7** | **228.1** | **314.3** | **288.3** | **223.3** | **58.5** | **67.7** | **131.9** |

* O & U includes the sites (ICD - 10: C26, C39, C48, 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: 2020-2021 – 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 | - | - | - | - | - | - | - | 0.3 | 0.4 | 0.5 | 1.3 | - | - | 1.1 | - | - | **0.2** | **0.2** | **0.4** |
| C01-C02 | - | - | - | - | - | - | 0.7 | 1.0 | 2.5 | 4.4 | 2.5 | 4.2 | 4.6 | 4.4 | 9.6 | 5.1 | **1.3** | **1.4** | **3.1** |
| C03-C06 | - | - | - | - | - | 0.3 | - | 2.0 | 3.4 | 6.9 | 9.5 | 4.2 | 8.4 | 6.7 | 11.2 | 2.6 | **1.9** | **2.2** | **5.5** |
| C07-C08 | - | - | - | - | - | - | 0.3 | 0.3 | - | 1.0 | - | 0.7 | - | - | - | - | **0.1** | **0.1** | **0.3** |
| C09 | - | - | - | - | - | - | - | - | - | - | 0.6 | - | 0.8 | 1.1 | 1.6 | - | **0.1** | **0.1** | **0.2** |
| C10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C11 | - | - | - | - | 0.5 | - | - | - | 0.4 | - | - | - | - | - | - | - | **0.1** | **0.1** | **0.1** |
| C12-C13 | - | - | - | - | - | - | - | - | - | 0.5 | 0.6 | - | - | - | - | - | **0.1** | **0.1** | **0.2** |
| C14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C15 | - | - | - | - | - | 0.3 | - | - | 0.8 | 2.5 | 1.3 | 4.2 | 2.3 | 3.3 | 8.0 | 5.1 | **0.8** | **0.9** | **1.7** |
| C16 | - | - | - | - | 0.3 | 0.3 | 1.0 | 1.7 | 0.8 | 3.4 | 4.5 | 2.8 | 7.6 | 2.2 | 8.0 | 5.1 | **1.3** | **1.4** | **3.2** |
| C17 | - | - | - | - | - | - | - | - | - | - | 0.6 | - | - | - | 1.6 | - | **0.1** | **0.1** | **0.1** |
| C18 | - | - | - | - | - | 0.9 | 0.3 | - | 0.8 | 0.5 | 1.9 | 0.7 | 2.3 | 1.1 | - | 2.6 | **0.4** | **0.5** | **1.0** |
| C19-C20 | - | - | - | 0.2 | - | 0.3 | 0.7 | 0.3 | - | - | 2.5 | 2.8 | 1.5 | 3.3 | 1.6 | 1.3 | **0.5** | **0.6** | **1.0** |
| C21 | - | - | - | - | - | - | - | - | - | - | - | 0.7 | - | 1.1 | - | 1.3 | **0.1** | **0.1** | **0.1** |
| C22 | 0.5 | - | - | - | 0.5 | 0.9 | - | 0.7 | 1.3 | 3.9 | 6.4 | 5.6 | 9.2 | 8.9 | 6.4 | 3.8 | **1.6** | **1.9** | **4.1** |
| C23-C24 | - | - | - | - | 0.3 | 0.6 | 2.3 | 9.2 | 9.7 | 13.2 | 29.3 | 26.1 | 29.8 | 31.1 | 35.1 | 19.2 | **7.0** | **7.9** | **18.1** |
| C25 | - | - | - | - | 0.3 | - | 0.3 | - | 1.3 | 0.5 | 3.2 | 2.1 | 2.3 | 3.3 | 4.8 | 3.8 | **0.7** | **0.8** | **1.4** |
| C30-C31 | - | - | - | - | - | - | - | - | - | 0.5 | - | 0.7 | - | - | - | - | **0.1** | **0.1** | **0.2** |
| C32 | - | - | - | - | - | - | 0.3 | 0.3 | 0.4 | - | 0.6 | - | 0.8 | 6.7 | - | - | **0.3** | **0.3** | **0.3** |
| C33-C34 | - | - | - | - | - | 0.3 | 0.7 | 0.7 | 2.9 | 4.9 | 9.5 | 7.8 | 6.1 | 17.8 | 12.8 | 7.7 | **2.2** | **2.5** | **5.0** |
| C37-C38 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C40-C41 | - | 0.3 | 0.4 | 0.2 | 0.8 | - | 1.0 | 0.7 | 1.3 | - | - | 0.7 | 0.8 | 2.2 | 1.6 | 1.3 | **0.5** | **0.5** | **0.6** |
| C43 | - | - | - | - | - | - | 0.7 | - | - | 0.5 | 0.6 | 0.7 | - | 1.1 | 1.6 | - | **0.2** | **0.2** | **0.3** |
| C44 | - | - | - | - | - | - | - | - | - | 0.5 | 1.9 | 1.4 | 1.5 | - | 1.6 | - | **0.2** | **0.3** | **0.8** |
| C45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C46 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C47,C49 | - | 0.3 | - | 0.2 | - | 0.3 | 0.7 | - | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | - | 1.6 | 1.3 | **0.3** | **0.3** | **0.5** |
| C50 | - | - | - | - | 0.8 | 5.0 | 9.6 | 15.7 | 23.9 | 35.3 | 40.7 | 36.7 | 30.5 | 34.4 | 31.9 | 23.0 | **11.4** | **12.4** | **29.7** |
| C51 | 0.5 | - | - | - | - | - | - | - | - | 0.5 | - | - | - | - | 1.6 | 1.3 | **0.1** | **0.1** | **0.1** |
| C52 | - | - | - | - | - | - | 0.3 | 0.7 | 0.8 | 1.5 | 1.9 | 0.7 | 2.3 | 3.3 | - | - | **0.5** | **0.5** | **1.3** |
| C53 | - | - | - | - | - | 0.3 | 1.3 | 2.7 | 8.4 | 16.7 | 16.5 | 11.3 | 19.8 | 18.9 | 16.0 | 12.8 | **4.4** | **5.0** | **12.1** |
| C54 | - | - | - | - | - | 0.3 | 0.3 | - | 0.8 | 2.9 | 6.4 | 7.1 | 3.8 | 1- | 9.6 | 5.1 | **1.4** | **1.6** | **3.2** |
| C55 | - | - | - | - | - | - | - | 0.3 | 0.4 | 0.5 | 1.3 | - | 0.8 | 1.1 | 1.6 | 2.6 | **0.3** | **0.3** | **0.5** |
| C56 | 0.5 | - | 0.4 | 0.8 | 0.3 | 0.9 | 3.0 | 7.5 | 5.0 | 10.8 | 14.0 | 9.9 | 10.7 | 7.8 | 8.0 | 6.4 | **3.6** | **3.9** | **9.4** |
| C57 | - | - | - | - | - | 0.3 | - | - | 0.4 | 1.5 | - | - | 0.8 | 2.2 | - | - | **0.2** | **0.2** | **0.5** |
| C58 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C64 | 1.4 | - | - | - | - | - | 0.7 | 0.3 | - | 2.5 | - | - | 1.5 | - | - | - | **0.3** | **0.4** | **0.7** |
| C65 | - | - | - | - | - | - | - | - | - | - | - | - | 0.8 | - | - | - | **0.03** | **0.03** | **0.1** |
| C66 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C67 | - | - | - | - | - | - | - | - | 0.4 | 1.0 | - | 0.7 | 0.8 | 5.6 | 1.6 | 1.3 | **0.3** | **0.4** | **0.5** |
| C68 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.1 | - | - | **0.03** | **0.03** | **0.0** |
| C69 | 0.5 | - | - | 0.2 | - | - | - | 0.3 | - | - | - | - | - | - | - | - | **0.1** | **0.1** | **0.1** |
| C70-C72 | 0.5 | 0.3 | - | - | - | 0.6 | 0.3 | 1.4 | 1.7 | 1.0 | 1.9 | 3.5 | 2.3 | - | - | 3.8 | **0.7** | **0.8** | **1.8** |
| C73 | - | - | - | 0.4 | 0.5 | 1.5 | 1.3 | - | - | 1.0 | 1.9 | 1.4 | 2.3 | 4.4 | 3.2 | 3.8 | **0.8** | **0.9** | **1.0** |
| C74 | - | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **0.03** | **0.03** | **0.0** |
| C75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C81 | 0.5 | - | 0.4 | - | 0.3 | 0.3 | - | - | 0.8 | - | - | 0.7 | 0.8 | 1.1 | - | - | **0.3** | **0.3** | **0.4** |
| C82-C86,C96 | 0.5 | - | 0.2 | 0.2 | 0.5 | 0.3 | 0.7 | - | 2.1 | 1.5 | 1.9 | 2.8 | 3.8 | 4.4 | 4.8 | 3.8 | **1.0** | **1.1** | **1.9** |
| C88 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C90 | - | - | - | - | - | - | - | 0.3 | 0.8 | 1.5 | 3.2 | 0.7 | - | 2.2 | 3.2 | 1.3 | **0.4** | **0.5** | **1.1** |
| C91 | 0.9 | 0.9 | 0.2 | - | - | - | 0.3 | - | 0.8 | 0.5 | 0.6 | 0.7 | - | - | 1.6 | - | **0.3** | **0.4** | **0.5** |
| C92-C94 | - | 0.3 | 0.4 | 0.8 | 0.3 | 1.5 | 1.3 | 1.4 | 0.8 | 1.5 | 1.3 | 2.8 | 1.5 | - | - | - | **0.9** | **0.8** | **1.5** |
| C95 | - | 0.3 | - | 0.6 | 0.3 | - | - | - | 1.3 | 1.0 | 1.3 | 1.4 | - | - | - | - | **0.4** | **0.4** | **0.8** |
| O&U | 0.5 | 0.3 | 0.2 | 0.6 | 0.3 | 0.6 | 1.0 | 0.7 | 0.4 | 4.4 | 3.2 | 9.2 | 9.9 | 7.8 | 9.6 | 7.7 | **1.9** | **2.1** | **4.0** |
| **Total** | **5.9** | **3.1** | **2.2** | **4.0** | **5.8** | **15.7** | **29.1** | **48.8** | **75.6** | **129.4** | **173.7** | **156.1** | **170.9** | **199.9** | **199.4** | **132.9** | **49.1** | **54.7** | **119.3** |

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

## Table 28: 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) 2020-2021: Males

| ICD 10 | Sites | Cum Rate (0-64) | Cum Risk (0-64) | Cum Rate (0-74) | Cum Risk (0-74) |
|---|---|---|---|---|---|
| C00 | Lip | 0.0011 | 0.0011 | 0.0013 | 0.0013 |
| C01-C02 | Tongue | 0.0045 | 0.0045 | 0.0058 | 0.0058 |
| C03-C06 | Mouth | 0.0149 | 0.0149 | 0.0195 | 0.0195 |
| C07-C08 | Salivary glands | 0.0003 | 0.0003 | 0.0007 | 0.0007 |
| C09 | Tonsil | 0.0002 | 0.0002 | 0.0003 | 0.0003 |
| C10 | Other oropharynx | 0.0002 | 0.0002 | 0.0004 | 0.0004 |
| C11 | Nasopharynx | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| C12-C13 | Hypopharynx | 0.0004 | 0.0004 | 0.0009 | 0.0009 |
| C14 | Pharynx unspecified | 0.0000 | 0.0000 | 0.0001 | 0.0001 |
| C15 | Oesophagus | 0.0011 | 0.0011 | 0.0021 | 0.0021 |
| C16 | Stomach | 0.0010 | 0.0010 | 0.0015 | 0.0015 |
| C17 | Small intestine | 0.0002 | 0.0002 | 0.0002 | 0.0002 |
| C18 | Colon | 0.0007 | 0.0007 | 0.0014 | 0.0014 |
| C19-C20 | Rectum | 0.0007 | 0.0007 | 0.0011 | 0.0011 |
| C21 | Anus | 0.0002 | 0.0002 | 0.0002 | 0.0002 |
| C22 | Liver | 0.0015 | 0.0015 | 0.0037 | 0.0037 |
| C23-C24 | Gallbladder etc. | 0.0033 | 0.0033 | 0.0053 | 0.0053 |
| C25 | Pancreas | 0.0005 | 0.0005 | 0.0011 | 0.0011 |
| C30-C31 | Nose, sinuses etc. | 0.0002 | 0.0002 | 0.0002 | 0.0002 |
| C32 | Larynx | 0.0012 | 0.0012 | 0.0022 | 0.0022 |
| C33-C34 | Trachea, bronchus and lung | 0.0023 | 0.0023 | 0.0054 | 0.0054 |
| C37-C38 | Other thoracic organs | 0.0002 | 0.0002 | 0.0003 | 0.0003 |
| C40-C41 | Bone | 0.0005 | 0.0005 | 0.0007 | 0.0007 |
| C43 | Melanoma of skin | 0.0002 | 0.0002 | 0.0003 | 0.0003 |
| C44 | Other skin | 0.0004 | 0.0004 | 0.0008 | 0.0008 |
| C45 | Mesothelioma | - | - | - | - |
| C46 | Kaposi sarcoma | - | - | - | - |
| C47,C49 | Connective and soft tissue | 0.0004 | 0.0004 | 0.0009 | 0.0009 |
| C50 | Breast | 0.0001 | 0.0001 | 0.0003 | 0.0003 |
| C60 | Penis | 0.0003 | 0.0003 | 0.0007 | 0.0007 |
| C61 | Prostate | 0.0013 | 0.0013 | 0.0043 | 0.0043 |
| C62 | Testis | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| C63 | Other male genital organs | 0.0000 | 0.0000 | 0.0001 | 0.0001 |
| C64 | Kidney | 0.0007 | 0.0007 | 0.0012 | 0.0012 |
| C65 | Renal pelvis | - | - | - | - |
| C66 | Ureter | - | - | - | - |
| C67 | Bladder | 0.0008 | 0.0008 | 0.0014 | 0.0014 |
| C68 | Other urinary organs | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| C69 | Eye | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| C70-C72 | Brain, nervous system | 0.0007 | 0.0007 | 0.0014 | 0.0014 |
| C73 | Thyroid | 0.0002 | 0.0002 | 0.0003 | 0.0003 |
| C74 | Adrenal gland | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| C75 | Other adrenal gland | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| C81 | Hodgkin disease | 0.0002 | 0.0002 | 0.0003 | 0.0003 |
| C82-C86,C96 | Non-Hodgkin lymphoma | 0.0015 | 0.0015 | 0.0020 | 0.0020 |
| C88 | Immunoproliferative diseases | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| C90 | Multiple myeloma | 0.0008 | 0.0008 | 0.0014 | 0.0014 |
| C91 | Lymphoid leukaemia | 0.0006 | 0.0006 | 0.0009 | 0.0009 |
| C92-C94 | Myeloid leukaemia | 0.0007 | 0.0007 | 0.0008 | 0.0008 |
| C95 | Leukaemia unspecified | 0.0004 | 0.0004 | 0.0004 | 0.0004 |
| Other & Unspecified* | | 0.0022 | 0.0022 | 0.0043 | 0.0043 |
| **Total** | | **0.0470** | **0.0470** | **0.0772** | **0.0772** |

* O & U includes the sites (ICD - 10: C26, C39, C48, 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) 2020-2021: Females

| ICD 10 | Sites | Cum Rate (0-64) | Cum Risk (0-64) | Cum Rate (0-74) | Cum Risk (0-74) |
|---|---|---|---|---|---|
| C00 | Lip | 0.0001 | 0.0001 | 0.0002 | 0.0002 |
| C01-C02 | Tongue | 0.0010 | 0.0010 | 0.0017 | 0.0017 |
| C03-C06 | Mouth | 0.0017 | 0.0017 | 0.0026 | 0.0026 |
| C07-C08 | Salivary glands | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| C09 | Tonsil | 0.0001 | 0.0001 | 0.0002 | 0.0002 |
| C10 | Other oropharynx | - | - | - | - |
| C11 | Nasopharynx | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| C12-C13 | Hypopharynx | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| C14 | Pharynx unspecified | - | - | - | - |
| C15 | Oesophagus | 0.0006 | 0.0006 | 0.0011 | 0.0011 |
| C16 | Stomach | 0.0011 | 0.0011 | 0.0016 | 0.0016 |
| C17 | Small intestine | 0.0000 | 0.0000 | 0.0001 | 0.0001 |
| C18 | Colon | 0.0004 | 0.0004 | 0.0004 | 0.0004 |
| C19-C20 | Rectum | 0.0004 | 0.0004 | 0.0007 | 0.0007 |
| C21 | Anus | 0.0000 | 0.0000 | 0.0001 | 0.0001 |
| C22 | Liver | 0.0014 | 0.0014 | 0.0022 | 0.0022 |
| C23-C24 | Gallbladder etc. | 0.0060 | 0.0060 | 0.0093 | 0.0093 |
| C25 | Pancreas | 0.0005 | 0.0005 | 0.0009 | 0.0009 |
| C30-C31 | Nose, sinuses etc. | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| C32 | Larynx | 0.0001 | 0.0001 | 0.0005 | 0.0005 |
| C33-C34 | Trachea, bronchus and lung | 0.0016 | 0.0016 | 0.0032 | 0.0032 |
| C37-C38 | Other thoracic organs | - | - | - | - |
| C40-C41 | Bone | 0.0003 | 0.0003 | 0.0005 | 0.0005 |
| C43 | Melanoma of skin | 0.0001 | 0.0001 | 0.0003 | 0.0003 |
| C44 | Other skin | 0.0003 | 0.0003 | 0.0003 | 0.0003 |
| C45 | Mesothelioma | - | - | - | - |
| C46 | Kaposi sarcoma | - | - | - | - |
| C47,C49 | Connective and soft tissue | 0.0002 | 0.0002 | 0.0003 | 0.0003 |
| C50 | Breast | 0.0099 | 0.0099 | 0.0132 | 0.0132 |
| C51 | Vulva | 0.0000 | 0.0000 | 0.0001 | 0.0001 |
| C52 | Vagina | 0.0004 | 0.0004 | 0.0006 | 0.0006 |
| C53 | Cervix uteri | 0.0039 | 0.0039 | 0.0056 | 0.0056 |
| C54 | Corpus uteri | 0.0011 | 0.0011 | 0.0021 | 0.0021 |
| C55 | Uterus unspecified | 0.0002 | 0.0002 | 0.0003 | 0.0003 |
| C56 | Ovary | 0.0032 | 0.0032 | 0.0040 | 0.0040 |
| C57 | Other female genital organs | 0.0001 | 0.0001 | 0.0003 | 0.0003 |
| C58 | Placenta | - | - | - | - |
| C64 | Kidney | 0.0003 | 0.0003 | 0.0003 | 0.0003 |
| C65 | Renal pelvis | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| C66 | Ureter | - | - | - | - |
| C67 | Bladder | 0.0001 | 0.0001 | 0.0005 | 0.0005 |
| C68 | Other urinary organs | 0.0000 | 0.0000 | 0.0001 | 0.0001 |
| C69 | Eye | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| C70-C72 | Brain, nervous system | 0.0007 | 0.0007 | 0.0007 | 0.0007 |
| C73 | Thyroid | 0.0005 | 0.0005 | 0.0009 | 0.0009 |
| C74 | Adrenal gland | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| C75 | Other adrena gland | - | - | - | - |
| C81 | Hodgkin disease | 0.0002 | 0.0002 | 0.0002 | 0.0002 |
| C82-C86,C96 | Non-Hodgkin lymphoma | 0.0007 | 0.0007 | 0.0012 | 0.0012 |
| C88 | Immunoproliferative diseases | - | - | - | - |
| C90 | Multiple myeloma | 0.0003 | 0.0003 | 0.0006 | 0.0006 |
| C91 | Lymphoid leukaemia | 0.0003 | 0.0003 | 0.0003 | 0.0003 |
| C92-C94 | Myeloid leukaemia | 0.0007 | 0.0007 | 0.0007 | 0.0007 |
| C95 | Leukaemia unspecified | 0.0003 | 0.0003 | 0.0003 | 0.0003 |
| Other & Unspecified* | | 0.0016 | 0.0016 | 0.0024 | 0.0024 |
| **Total** | | **0.0410** | **0.0410** | **0.0610** | **0.0610** |

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

## Table 30: Number (#) and Proportion (%) of cancers by site (ICD10) and method of diagnosis: 2020-2021 – Males Varanasi district

| ICD 10 | Sites | Clinical | | Radiology | | Microscopic | | Other (+DCO)** | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | # | % | # | % | # | % | # | % | # | % |
| C00 | Lip | 2 | 4.4 | 1 | 2.2 | 37 | 82.2 | 5 | 11.1 | **45** | **100** |
| C01-C02 | Tongue | 15 | 6.7 | 8 | 3.6 | 193 | 85.8 | 9 | 4.0 | **225** | **100** |
| C03-C06 | Mouth | 33 | 5.0 | 33 | 5.0 | 513 | 77.1 | 86 | 12.9 | **665** | **100** |
| C07-C08 | Salivary Gland | 1 | 5.6 | - | - | 17 | 94.4 | - | - | **18** | **100** |
| C09 | Tonsil | - | - | - | - | 11 | 100 | - | - | **11** | **100** |
| C10 | Other Oropharynx | - | - | 1 | 8.3 | 11 | 91.7 | - | - | **12** | **100** |
| C11 | Nasopharynx | - | - | - | - | 4 | 100 | - | - | **4** | **100** |
| C12-C13 | Hypopharynx | - | - | 1 | 4.0 | 24 | 96.0 | - | - | **25** | **100** |
| C14 | Pharynx Unspecified | - | - | - | - | 1 | 33.3 | 2 | 66.7 | **3** | **100** |
| C15 | Oesophagus | 3 | 5.6 | 2 | 3.7 | 48 | 88.9 | 1 | 1.9 | **54** | **100** |
| C16 | Stomach | 2 | 4.0 | 8 | 16.0 | 36 | 72.0 | 4 | 8.0 | **50** | **100** |
| C17 | Small Intestine | 1 | 14.3 | 1 | 14.3 | 3 | 42.9 | 2 | 28.6 | **7** | **100** |
| C18 | Colon | 2 | 4.8 | 5 | 11.9 | 32 | 76.2 | 3 | 7.1 | **42** | **100** |
| C19-C20 | Rectum | 1 | 2.6 | 2 | 5.3 | 32 | 84.2 | 3 | 7.9 | **38** | **100** |
| C21 | Anus & Anal Canal | - | - | - | - | 10 | 100 | - | - | **10** | **100** |
| C22 | Liver | 5 | 4.7 | 41 | 38.7 | 43 | 40.6 | 17 | 16.0 | **106** | **100** |
| C23-C24 | Gallbladder etc. | 10 | 6.1 | 47 | 28.8 | 91 | 55.8 | 15 | 9.2 | **163** | **100** |
| C25 | Pancreas | 5 | 14.7 | 10 | 29.4 | 19 | 55.9 | - | - | **34** | **100** |
| C30-C31 | Nose, Sinuses etc. | - | - | - | - | 10 | 100 | - | - | **10** | **100** |
| C32 | Larynx | 6 | 9.5 | 6 | 9.5 | 49 | 77.8 | 2 | 3.2 | **63** | **100** |
| C33-C34 | Lung etc. | 5 | 3.3 | 24 | 16.1 | 112 | 75.2 | 8 | 5.4 | **149** | **100** |
| C37-C38 | Other Thoracic Organs | - | - | 2 | 25.0 | 6 | 75.0 | - | - | **8** | **100** |
| C40-C41 | Bone | - | - | 4 | 12.1 | 22 | 66.7 | 7 | 21.2 | **33** | **100** |
| C43 | Melanoma of Skin | - | - | - | - | 8 | 100 | - | - | **8** | **100** |
| C44 | Other Skin | - | - | - | - | 21 | 91.3 | 2 | 8.7 | **23** | **100** |
| C45 | Mesothelioma | - | - | - | - | - | - | - | - | **-** | **-** |
| C46 | Kaposi Sarcoma | - | - | - | - | - | - | - | - | **-** | **-** |
| C47+C49 | Conn. & Soft Tissue | 1 | 3.7 | 3 | 11.1 | 21 | 77.8 | 2 | 7.4 | **27** | **100** |
| C50 | Breast | - | - | - | - | 8 | 100 | - | - | **8** | **100** |
| C60 | Penis | - | - | 1 | 5.3 | 17 | 89.5 | 1 | 5.3 | **19** | **100** |
| C61 | Prostate | 6 | 5.3 | 12 | 10.6 | 89 | 78.8 | 6 | 5.3 | **113** | **100** |
| C62 | Testis | - | - | 1 | 3.8 | 24 | 92.3 | 1 | 3.8 | **26** | **100** |
| C63 | Other Male Genital | - | - | - | - | 3 | 100 | - | - | **3** | **100** |
| C64 | Kidney etc. | 1 | 2.6 | 5 | 13.2 | 30 | 78.9 | 2 | 5.3 | **38** | **100** |
| C65 | Renal Pelvis | - | - | - | - | - | - | - | - | **-** | **-** |
| C66 | Ureter | - | - | - | - | - | - | - | - | **-** | **-** |
| C67 | Urinary Bladder | - | - | 1 | 2.2 | 41 | 91.1 | 3 | 6.7 | **45** | **100** |
| C68 | Unspecified Urinary Organs | - | - | - | - | 1 | 100 | - | - | **1** | **100** |
| C69 | Eye | 2 | 33.3 | - | - | 3 | 50 | 1 | 16.7 | **6** | **100** |
| C70-C72 | Brain, Nervous System | 3 | 6.8 | 7 | 15.9 | 28 | 63.6 | 6 | 13.6 | **44** | **100** |
| C73 | Thyroid | 2 | 18.2 | - | - | 9 | 81.8 | - | - | **11** | **100** |
| C74 | Adrenal Gland | - | - | - | - | 2 | 100 | - | - | **2** | **100** |
| C75 | Other endocrine | - | - | - | - | 1 | 100 | - | - | **1** | **100** |
| C81 | Hodgkins Disease | - | - | - | - | 17 | 100 | - | - | **17** | **100** |
| C82-C86, C96 | Non-Hodgkin Lymphoma | - | - | - | - | 74 | 98.7 | 1 | 1.3 | **75** | **100** |
| C88 | Malig Imn.Prol D | - | - | - | - | 1 | 100 | - | - | **1** | **100** |
| C90 | Multiple Myeloma | - | - | 1 | 2.6 | 38 | 97.4 | - | - | **39** | **100** |
| C91 | Lymphoid Leukaemia | - | - | - | - | 35 | 100 | - | - | **35** | **100** |
| C92-C94 | Myeloid Leukaemia | - | - | - | - | 42 | 100 | - | - | **42** | **100** |
| C95 | Leukaemia Unspecified | - | - | - | - | 22 | 100 | - | - | **22** | **100** |
| Other & Unspecified* | | 15 | 11.4 | 20 | 15.2 | 49 | 37.1 | 48 | 36.4 | **132** | **100** |
| | **Total*** ** | **121** | **4.8** | **247** | **9.8** | **1,908** | **75.9** | **237** | **9.4** | **2,513** | **100.0** |

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

** Other: Information based on patient's relatives, medical note and DCO *** 1 case of Specific tumor marker not included in the table

## Table 31: Number (#) and Proportion (%) of cancers by site (ICD10) and method of diagnosis: 2020-2021 – Females Varanasi district

| ICD 10 | Sites | Clinical | | Radiology | | Microscopic | | Other (+DCO)** | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | # | % | # | % | # | % | # | % | # | % |
| C00 | Lip | 1 | 16.7 | - | - | 5 | 83.3 | - | - | **6** | **100** |
| C01-C02 | Tongue | 3 | 6.0 | 3 | 6.0 | 43 | 86.0 | 1 | 2.0 | **50** | **100** |
| C03-C06 | Mouth | 5 | 6.6 | 1 | 1.3 | 60 | 78.9 | 10 | 13.2 | **76** | **100** |
| C07-C08 | Salivary Gland | - | - | 2 | 40.0 | 3 | 60.0 | - | - | **5** | **100** |
| C09 | Tonsil | - | - | - | - | 4 | 100 | - | - | **4** | **100** |
| C10 | Other Oropharynx | - | - | - | - | - | - | - | - | **-** | **-** |
| C11 | Nasopharynx | - | - | - | - | 3 | 100 | - | - | **3** | **100** |
| C12-C13 | Hypopharynx | - | - | - | - | 2 | 100 | - | - | **2** | **100** |
| C14 | Pharynx Unspecified | - | - | - | - | - | - | - | - | **-** | **-** |
| C15 | Oesophagus | 4 | 12.9 | - | - | 26 | 83.9 | 1 | 3.2 | **31** | **100** |
| C16 | Stomach | 2 | 3.9 | 8 | 15.7 | 37 | 72.5 | 4 | 7.8 | **51** | **100** |
| C17 | Small Intestine | - | - | - | - | 2 | 100 | - | - | **2** | **100** |
| C18 | Colon | 1 | 5.9 | 4 | 23.5 | 10 | 58.8 | 2 | 11.8 | **17** | **100** |
| C19-C20 | Rectum | 1 | 5.0 | 4 | 20.0 | 15 | 75.0 | - | - | **20** | **100** |
| C21 | Anus & Anal Canal | - | - | - | - | 1 | 33.3 | 2 | 66.7 | **3** | **100** |
| C22 | Liver | 2 | 3.1 | 10 | 15.6 | 26 | 40.6 | 26 | 40.6 | **64** | **100** |
| C23-C24 | Gallbladder etc. | 16 | 5.8 | 93 | 33.9 | 153 | 55.8 | 12 | 4.4 | **274** | **100** |
| C25 | Pancreas | 2 | 8.0 | 9 | 36.0 | 14 | 56.0 | - | - | **25** | **100** |
| C30-C31 | Nose, Sinuses etc. | - | - | - | - | 2 | 100 | - | - | **2** | **100** |
| C32 | Larynx | - | - | 2 | 18.2 | 7 | 63.6 | 2 | 18.2 | **11** | **100** |
| C33-C34 | Trachea, bronchus and lung | 3 | 3.5 | 15 | 17.4 | 66 | 76.7 | 2 | 2.3 | **86** | **100** |
| C37-C38 | Other Thoracic Organs | - | - | - | - | - | - | - | - | **-** | **-** |
| C40-C41 | Bone | - | - | 5 | 23.8 | 15 | 71.4 | 1 | 4.8 | **21** | **100** |
| C43 | Melanoma of Skin | - | - | - | - | 7 | 100 | - | - | **7** | **100** |
| C44 | Other Skin | 1 | 11.1 | - | - | 8 | 88.9 | - | - | **9** | **100** |
| C45 | Mesothelioma | - | - | - | - | - | - | - | - | **-** | **-** |
| C46 | Kaposi Sarcoma | - | - | - | - | - | - | - | - | **-** | **-** |
| C47+C49 | Conn. & Soft Tissue | - | - | 1 | 8.3 | 10 | 83.3 | 1 | 8.3 | **12** | **100** |
| C50 | Breast | 9 | 2.0 | 15 | 3.3 | 391 | 87.1 | 34 | 7.6 | **449** | **100** |
| C51 | Vulva | - | - | - | - | 4 | 100 | - | - | **4** | **100** |
| C52 | Vagina | - | - | - | - | 18 | 100 | - | - | **18** | **100** |
| C53 | Cervix Uteri | 5 | 2.9 | 13 | 7.6 | 133 | 78.2 | 19 | 11.2 | **170** | **100** |
| C54 | Corpus Uteri | 1 | 1.9 | 8 | 14.8 | 45 | 83.3 | - | - | **54** | **100** |
| C55 | Uterus Unspecified | 1 | 10.0 | 1 | 10.0 | 4 | 40.0 | 4 | 40.0 | **10** | **100** |
| C56 | Ovary | 6 | 4.3 | 23 | 16.4 | 104 | 74.3 | 7 | 5.0 | **140** | **100** |
| C57 | Other Female Genital | - | - | 1 | 12.5 | 7 | 87.5 | - | - | **8** | **100** |
| C58 | Placenta | - | - | - | - | - | - | - | - | **-** | **-** |
| C64 | Kidney etc. | - | - | 4 | 30.8 | 9 | 69.2 | - | - | **13** | **100** |
| C65 | Renal Pelvis | - | - | - | - | 1 | 100 | - | - | **1** | **100** |
| C66 | Ureter | - | - | - | - | - | - | - | - | **-** | **-** |
| C67 | Urinary Bladder | 1 | 8.3 | - | - | 11 | 91.7 | - | - | **12** | **100** |
| C68 | Unspecified Urinary Organs | - | - | - | - | 1 | 100 | - | - | **1** | **100** |
| C69 | Eye | - | - | 1 | 33.3 | 2 | 66.7 | - | - | **3** | **100** |
| C70-C72 | Brain, Nervous System | 3 | 10.3 | 6 | 20.7 | 17 | 58.6 | 3 | 10.3 | **29** | **100** |
| C73 | Thyroid | 3 | 9.4 | 2 | 6.3 | 27 | 84.4 | - | - | **32** | **100** |
| C74 | Adrenal Gland | - | - | - | - | 1 | 100 | - | - | **1** | **100** |
| C75 | Other endocrine | - | - | - | - | - | - | - | - | **-** | **-** |
| C81 | Hodgkins Disease | - | - | - | - | 10 | 100 | - | - | **10** | **100** |
| C82-C86, C96 | Non-Hodgkin lymphoma | - | - | - | - | 38 | 100 | - | - | **38** | **100** |
| C88 | Malig Imn.Prol D | - | - | - | - | - | - | - | - | **-** | **-** |
| C90 | Multiple Myeloma | - | - | 1 | 5.9 | 16 | 94.1 | - | - | **17** | **100** |
| C91 | Lymphoid Leukaemia | - | - | - | - | 13 | 100 | - | - | **13** | **100** |
| C92-C94 | Myeloid Leukaemia | - | - | - | - | 34 | 100 | - | - | **34** | **100** |
| C95 | Leukaemia Unspecified | - | - | - | - | 14 | 100 | - | - | **14** | **100** |
| Other & Unspecified* | | 6 | 8.1 | 12 | 16.2 | 22 | 29.7 | 34 | 45.9 | **74** | **100** |
| **Total ***** | | **76** | **3.9** | **244** | **12.7** | **1441** | **74.8** | **165** | **8.6** | **1926** | **100** |

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

** Other: Information based on patient's relatives, medical note and DCO *** 6 case of Specific tumor marker not included in the table

## Table 32: Number of cancer deaths by five year age group and site (ICD 10): 2020-2021 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 | 2 | 4 | 2 | 4 | 4 | 4 | 3 | 2 | - | **28** | **1.6** |
| C01-C02 | Tongue | - | - | - | - | 1 | 4 | 10 | 11 | 28 | 18 | 11 | 20 | 16 | 7 | 11 | 13 | **150** | **8.6** |
| C03-C06 | Mouth | - | - | - | - | 1 | 6 | 21 | 34 | 58 | 69 | 60 | 51 | 50 | 32 | 25 | 16 | **423** | **24.3** |
| C07-C08 | Salivary glands | - | - | - | - | - | - | 1 | - | 1 | - | 2 | 2 | 2 | 2 | 2 | 3 | **15** | **0.9** |
| C09 | Tonsil | - | - | - | - | - | - | - | - | 2 | - | - | 3 | 2 | 2 | -- | 1 | **10** | **0.6** |
| C10 | Other oropharynx | - | - | - | - | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 2 | 2 | 1 | **11** | **0.6** |
| C11 | Nasopharynx | - | - | - | - | 1 | - | - | - | - | - | 1 | 1 | - | - | - | - | **3** | **0.2** |
| C12-C13 | Hypopharynx | - | - | - | - | - | - | - | - | 1 | - | - | 2 | 8 | 5 | 4 | 5 | **25** | **1.4** |
| C14 | Pharynx unspecified | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | **2** | **0.1** |
| C15 | Oesophagus | - | - | - | - | - | - | - |  | 2 | 3 | 8 | 11 | 14 | 8 | 9 | 6 | **61** | **3.5** |
| C16 | Stomach | - | - | - | - | 1 | 2 | 2 | 3 | - | 3 | 4 | 9 | 8 | 8 | 8 | 7 | **55** | **3.2** |
| C17 | Small intestine | - | - | - | - | 1 | 1 | - | 1 | - | 1 | 1 | - | - | - | - | 1 | **6** | **0.3** |
| C18 | Colon | - | - | - | 1 | - | - | - | - | - | 1 | - | 1 | 4 | 4 | 5 | - | **16** | **0.9** |
| C19-C20 | Rectum | - | - | - | 4 | - | 2 | 3 | 1 | 1 | 1 | 4 | 3 | 4 | 4 | 1 | - | **28** | **1.6** |
| C21 | Anus | - | - | - | - | - | - | 1 | 1 | 1 | - | 3 | 2 | 1 | - | - | 1 | **10** | **0.6** |
| C22 | Liver | 1 | - | - | - | 2 | 1 | 3 | 5 | 8 | 7 | 5 | 7 | 18 | 23 | 14 | 13 | **107** | **6.2** |
| C23-C24 | Gallbladder etc. | - | - | - | - | - | 1 | 2 | 5 | 10 | 16 | 15 | 28 | 19 | 21 | 12 | 11 | **140** | **8.1** |
| C25 | Pancreas | - | - | - | - | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | **28** | **1.6** |
| C30-C31 | Nose, sinuses etc. | - | - | - | - | - | - | - | 1 | - | - | 1 | - | 1 | - | - | 2 | **5** | **0.3** |
| C32 | Larynx | - | - | - | - | - | - | - | - | 2 | 2 | 6 | 7 | 8 | 9 | 4 | 3 | **41** | **2.4** |
| C33-C34 | Trachea, bronchus and lung | - | - | - | - | 3 | - | 3 | 2 | 3 | 3 | 5 | 20 | 20 | 32 | 18 | 17 | **126** | **7.2** |
| C37-C38 | Other thoracic organs | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 1 | - | - | 1 | **4** | **0.2** |
| C40-C41 | Bone | - | - | 1 | 4 | - | - | - | - | - | 3 | - | - |  | 1 | 2 | 4 | **15** | **0.9** |
| C43 | Melanoma of skin | - | - | - | - | - | - | - | - | 1 | - | - | 2 | 2 | 1 | - | 1 | **7** | **0.4** |
| C44 | Other skin | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 5 | 1 | 2 | 3 | **13** | **0.7** |
| C45 | Mesothelioma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C46 | Kaposi sarcoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C47,C49 | Connective and soft tissue | 1 | - | - | 1 | 2 | - | 1 | - | 2 | 1 | - | 1 | 2 | 1 | 3 | - | **15** | **0.9** |
| C50 | Breast | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | **1** | **0.1** |
| C60 | Penis | - | - | - | - | - | - | - | - | - | - | 2 | 2 | - | 2 | 1 | 1 | **8** | **0.5** |
| C61 | Prostate | - | - | - | - | - | 1 | - | - | 1 | - | 6 | 7 | 6 | 11 | 11 | 11 | **54** | **3.1** |
| C62 | Testis | 1 | - | - | - | - | - | 1 | - | - | 1 | 1 | 2 | - | - | - | - | **6** | **0.3** |
| C63 | Other male genital organs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C64 | Kidney | - | - | - | - | - | - | - | 2 | 2 | - | 1 | 3 | 3 | 4 | 2 | 4 | **21** | **1.2** |
| C65 | Renal pelvis | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C66 | Ureter | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C67 | Bladder | - | - | - | - | - | - | 1 | - | - | 3 | 5 | 6 | 3 | 7 | 3 | 4 | **32** | **1.8** |
| C68 | Other urinary organs | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | **2** | **0.1** |
| C69 | Eye | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C70-C72 | Brain, nervous system | 2 | 1 | 1 | - | 1 | 2 | 2 | 1 | 5 | 2 | 3 | 3 | 2 | 3 | 5 | 1 | **34** | **2.0** |
| C73 | Thyroid | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 1 | 2 | - | **6** | **0.3** |
| C74 | Adrenal gland | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | -- | **2** | **0.1** |
| C75 | Other adrenal gland | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C81 | Hodgkin disease | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | **3** | **0.2** |
| C82-C86,C96 | Non-Hodgkin lymphoma | 1 | 1 | - | - | 1 | 1 | 1 |  | 3 | 2 | 5 | 7 | 8 | 3 | 3 | 3 | **39** | **2.2** |
| C88 | Immunoproliferative diseases | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** |
| C90 | Multiple myeloma | - | - | - | - | - | - | - | - | - | 1 | 6 | 3 | 7 | 4 | 2 | - | **23** | **1.3** |
| C91 | Lymphoid leukaemia | 1 | - | 1 | 2 | 3 | - | - | 1 | 1 | - | 2 | 1 | 2 | 1 | - | - | **15** | **0.9** |
| C92-C94 | Myeloid leukaemia | - | - | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | - | - | - | **16** | **0.9** |
| C95 | Leukaemia unspecified | 1 | - | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | - | 2 | 3 | 1 | - | - | **16** | **0.9** |
| Other & Unspecified* |  | - | - | 4 | 3 | 1 | 4 | 1 | 5 | 6 | 7 | 15 | 11 | 15 | 22 | 11 | 12 | **117** | **6.7** |
| **Total** |  | **8** | **2** | **9** | **19** | **22** | **32** | **60** | **79** | **148** | **150** | **183** | **228** | **248** | **232** | **168** | **151** | **1739** | **100.0** |

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

## Table 33: Number of cancer deaths by five year age group and site (ICD 10): 2020-2021 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 | - | - | - | - | - | **2** | **0.2** |
| C01-C02 | Tongue | - | - | - | - | 1 | - | 2 | 3 | 5 | 4 | 4 | 3 | 5 | 4 | 7 | 2 | **40** | **3.1** |
| C03-C06 | Mouth | - | - | - | - | - | 1 | 2 | 3 | 4 | 7 | 10 | 5 | 8 | 10 | 3 | 4 | **57** | **4.4** |
| C07-C08 | Salivary glands | - | - | - | - | - | - | 2 | - | - | 1 | 1 | - | - | - | - | - | **4** | **0.3** |
| C09 | Tonsil | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | **2** | **0.2** |
| C10 | Other oropharynx | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11 | Nasopharynx | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | **2** | **0.2** |
| C12-C13 | Hypopharynx | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | **1** | **0.1** |
| C14 | Pharynx unspecified | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C15 | Oesophagus | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 3 | 3 | 3 | 5 | **19** | **1.5** |
| C16 | Stomach | - | - | - | - | 1 | - | 2 | 2 | 1 | 5 | 7 | 2 | 7 | 5 | 5 | 4 | **41** | **3.1** |
| C17 | Small intestine | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | **2** | **0.2** |
| C18 | Colon | - | - | - | - | - | 2 | 1 | - | 3 | 3 | 1 | - | 2 | - | - | 2 | **14** | **1.1** |
| C19-C20 | Rectum | - | - | 1 | - | - | 2 | 2 | 1 | 1 | - | 2 | 1 | 1 | 3 | - |  | **14** | **1.1** |
| C21 | Anus | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | 1 | **3** | **0.2** |
| C22 | Liver | - | - | - | - | 3 | 2 | - | 5 | 5 | 9 | 12 | 7 | 12 | 7 | 2 | 3 | **67** | **5.1** |
| C23-C24 | Gallbladder etc. | - | - | - | - | 1 | 2 | 2 | 19 | 19 | 26 | 45 | 41 | 37 | 27 | 16 | 12 | **247** | **18.9** |
| C25 | Pancreas | - | - | - | - | 1 | - | 1 | - | 2 | - | 2 | 4 | 2 | 2 | 3 | 3 | **20** | **1.5** |
| C30-C31 | Nose, sinuses etc. | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | **2** | **0.2** |
| C32 | Larynx | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 4 | - | - | **5** | **0.4** |
| C33-C34 | Trachea, bronchus and lung | - | - | - | - | - | 1 | 3 | 3 | 9 | 7 | 12 | 12 | 7 | 7 | 5 | 3 | **69** | **5.3** |
| C37-C38 | Other thoracic organs | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | **1** | **0.1** |
| C40-C41 | Bone | - | - | 5 | - | - | - | 5 | - | 1 | - | - | - | 2 | 2 | 1 | - | **16** | **1.2** |
| C43 | Melanoma of skin | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 1 | - | - | **3** | **0.2** |
| C44 | Other skin | - | - | - | 1 | - | - | - | 2 | 1 | - | - | - | - | - | 1 | - | **5** | **0.4** |
| C45 | Mesothelioma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C46 | Kaposi sarcoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C47,C49 | Connective and soft tissue | 1 | 1 | - | 2 | - | - | - | - | - | 2 | - | 1 | - | 1 | 2 | - | **10** | **0.8** |
| C50 | Breast | - | - | - | - | 1 | 4 | 15 | 20 | 27 | 34 | 23 | 31 | 25 | 25 | 12 | 8 | **225** | **17.2** |
| C51 | Vulva | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | **1** | **0.1** |
| C52 | Vagina | - | - | - | - | - | - | - | 1 | 2 | 1 | 1 | - | 2 | - | - | 2 | **9** | **0.7** |
| C53 | Cervix uteri | - | - | - | - | 2 | 1 | 2 | 6 | 10 | 24 | 14 | 21 | 23 | 16 | 10 | 6 | **135** | **10.3** |
| C54 | Corpus uteri | - | - | - | - | - | - | - | - | 1 | - | 3 | 2 | 4 | 5 | 2 | - | **17** | **1.3** |
| C55 | Uterus unspecified | - | - | - | - | - | - | - | 1 | 3 | 1 | - | 2 | - | 1 | - | 1 | **9** | **0.7** |
| C56 | Ovary | - | - | 1 | 3 | - | 3 | 2 | 4 | 9 | 15 | 10 | 9 | 7 | 7 | 7 | 4 | **81** | **6.2** |
| C57 | Other female genital organs | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | **2** | **0.2** |
| C58 | Placenta | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C64 | Kidney | - | - | - | - | - | - | 1 | - | 1 | 2 | 1 | 1 | 1 | 1 | - | 1 | **9** | **0.7** |
| C65 | Renal pelvis | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | **1** | **0.1** |
| C66 | Ureter | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | **1** | **0.1** |
| C67 | Bladder | - | - | - | - | - | - | - | - | 1 | 1 | - | 1 | 1 | 6 | - | 1 | **11** | **0.8** |
| C68 | Other urinary organs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C69 | Eye | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - | - | - |
| C70-C72 | Brain, nervous system | 1 | - | - | - | - | - | - | 1 | 6 | 1 | 2 | 6 | 2 | 2 | - | - | **21** | **1.6** |
| C73 | Thyroid | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | 2 | 1 | 1 | **7** | **0.5** |
| C74 | Adrenal gland | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | **2** | **0.2** |
| C75 | Other adrena gland | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C81 | Hodgkin disease | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | **1** | **0.1** |
| C82-C86,C96 | Non-Hodgkin lymphoma | - | - | - | - | - | - | 1 | 1 | 2 | - | 2 | 3 | 3 | 2 | 1 | 2 | **17** | **1.3** |
| C88 | Immunoproliferative diseases | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C90 | Multiple myeloma | - | - | - | - | - | - | - | - | 1 | 1 | 4 | - | - | 1 | 1 | 2 | **10** | **0.8** |
| C91 | Lymphoid leukaemia | - | - | - | - | - | - | - | - | - | 1 | - | 2 | 1 | - | - | 2 | **6** | **0.5** |
| C92-C94 | Myeloid leukaemia | - | - | - | 2 | - | 2 | 1 | 3 | 3 | 1 | - | 4 | 1 | 1 | - | - | **18** | **1.4** |
| C95 | Leukaemia unspecified | - | 1 | - | 1 | 1 | 1 | - | - | - | 4 | - | 2 | - | 1 | - | - | **11** | **0.8** |
| Other & Unspecified* | | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 3 | 10 | 5 | 8 | 8 | 7 | 9 | 6 | **66** | **5.1** |
| | **Total** | **3** | **4** | **8** | **13** | **12** | **24** | **46** | **78** | **122** | **169** | **163** | **173** | **167** | **156** | **93** | **75** | **1306** | **100** |

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

## Table 34: Average annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35-64 yrs) (TR) mortality rate per 100,000 population: 2020-2021 – 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 | 0.7 | 0.7 | 1.6 | 0.9 | 2.4 | 2.9 | 2.9 | 3.0 | 2.9 | - | **0.7** | **0.8** | **1.8** |
| C01-C02 | - | - | - | - | 0.2 | 1.1 | 3.3 | 3.7 | 11.4 | 8.3 | 6.5 | 14.5 | 11.6 | 6.9 | 16.1 | 16.4 | **3.5** | **3.9** | **8.9** |
| C03-C06 | - | - | - | - | 0.2 | 1.7 | 7.0 | 11.5 | 23.5 | 31.9 | 35.7 | 36.9 | 36.1 | 31.6 | 36.6 | 20.2 | **9.8** | **11.4** | **28.1** |
| C07-C08 | - | - | - | - | - | - | 0.3 | - | 0.4 | - | 1.2 | 1.4 | 1.4 | 2.0 | 2.9 | 3.8 | **0.3** | **0.4** | **0.6** |
| C09 | - | - | - | - | - | - | - | - | 0.8 | - | - | 2.2 | 1.4 | 2.0 | - | 1.3 | **0.2** | **0.3** | **0.6** |
| C10 | - | - | - | - | - | - | - | 0.3 | 0.4 | - | 0.6 | 0.7 | 1.4 | 2.0 | 2.9 | 1.3 | **0.3** | **0.3** | **0.5** |
| C11 | - | - | - | - | 0.2 | - | - | - | - | - | 0.6 | 0.7 | - | - | - | - | **0.1** | **0.1** | **0.2** |
| C12-C13 | - | - | - | - | - | - | - | - | 0.4 | - | - | 1.4 | 5.8 | 4.9 | 5.9 | 6.3 | **0.6** | **0.7** | **1.0** |
| C14 | - | - | - | - | - | - | - | - | - | - | - | - | 0.7 | - | - | 1.3 | **0.05** | **0.1** | **0.1** |
| C15 | - | - | - | - | - | - | - | - | 0.8 | 1.4 | 4.8 | 8.0 | 10.1 | 7.9 | 13.2 | 7.6 | **1.4** | **1.7** | **3.5** |
| C16 | - | - | - | - | 0.2 | 0.6 | 0.7 | 1.0 | - | 1.4 | 2.4 | 6.5 | 5.8 | 7.9 | 11.7 | 8.8 | **1.3** | **1.5** | **2.4** |
| C17 | - | - | - | - | 0.2 | 0.3 | - | 0.3 | - | 0.5 | 0.6 | - | - | - | - | 1.3 | **0.1** | **0.1** | **0.3** |
| C18 | - | - | - | 0.2 | - | - | - | - | - | 0.5 | - | 0.7 | 2.9 | 4.0 | 7.3 | - | **0.4** | **0.5** | **0.6** |
| C19-C20 | - | - | - | 0.7 | - | 0.6 | 1.0 | 0.3 | 0.4 | 0.5 | 2.4 | 2.2 | 2.9 | 4.0 | 1.5 | - | **0.7** | **0.7** | **1.3** |
| C21 | - | - | - | - | - | - | 0.3 | 0.3 | 0.4 | - | 1.8 | 1.4 | 0.7 | - | - | 1.3 | **0.2** | **0.3** | **0.7** |
| C22 | 0.4 | - | - | - | 0.4 | 0.3 | 1.0 | 1.7 | 3.2 | 3.2 | 3.0 | 5.1 | 13.0 | 22.7 | 20.5 | 16.4 | **2.5** | **2.9** | **4.4** |
| C23-C24 | - | - | - | - | - | 0.3 | 0.7 | 1.7 | 4.1 | 7.4 | 8.9 | 20.3 | 13.7 | 20.8 | 17.6 | 13.9 | **3.3** | **3.9** | **8.4** |
| C25 | - | - | - | - | 0.2 | 0.3 | 0.3 | 0.3 | 0.8 | 0.9 | 1.2 | 1.4 | 2.9 | 4.0 | 5.9 | 5.0 | **0.7** | **0.8** | **1.2** |
| C30-C31 | - | - | - | - | - | - | - | 0.3 | - | - | 0.6 | - | 0.7 | - | - | 2.5 | **0.1** | **0.1** | **0.3** |
| C32 | - | - | - | - | - | - | - | - | 0.8 | 0.9 | 3.6 | 5.1 | 5.8 | 8.9 | 5.9 | 3.8 | **1.0** | **1.2** | **2.3** |
| C33-C34 | - | - | - | - | 0.6 | - | 1.0 | 0.7 | 1.2 | 1.4 | 3.0 | 14.5 | 14.4 | 31.6 | 26.3 | 21.4 | **2.9** | **3.5** | **4.8** |
| C37-C38 | - | - | - | - | - | 0.3 | - | - | - | - | 0.6 | - | 0.7 | - | - | 1.3 | **0.1** | **0.1** | **0.2** |
| C40-C41 | - | - | 0.2 | 0.7 | - | - | - | - | - | 1.4 | - | - | - | 1.0 | 2.9 | 5.0 | **0.3** | **0.4** | **0.3** |
| C43 | - | - | - | - | - | - | - | - | 0.4 | - | - | 1.4 | 1.4 | 1.0 | - | 1.3 | **0.2** | **0.2** | **0.5** |
| C44 | - | - | - | - | - | - | - | - | - | - | 0.6 | 0.7 | 3.6 | 1.0 | 2.9 | 3.8 | **0.3** | **0.4** | **0.7** |
| C45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C46 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C47,C49 | 0.4 | - | - | 0.2 | 0.4 | - | 0.3 | - | 0.8 | 0.5 | - | 0.7 | 1.4 | 1.0 | 4.4 | - | **0.3** | **0.4** | **0.5** |
| C50 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.0 | - | - | **0.02** | **0.03** | **0.00** |
| C60 | - | - | - | - | - | - | - | - | - | - | 1.2 | 1.4 | - | 2.0 | 1.5 | 1.3 | **0.2** | **0.2** | **0.4** |
| C61 | - | - | - | - | - | 0.3 | - | - | 0.4 | - | 3.6 | 5.1 | 4.3 | 10.9 | 16.1 | 13.9 | **1.3** | **1.5** | **1.9** |
| C62 | 0.4 | - | - | - | - | - | 0.3 | - | - | 0.5 | 0.6 | 1.4 | - | - | - | - | **0.1** | **0.2** | **0.4** |
| C63 | | | | | | | | | | | | | | | | | | | |
| C64 | - | - | - | - | - | - | - | 0.7 | 0.8 | - | 0.6 | 2.2 | 2.2 | 4.0 | 2.9 | 5.0 | **0.5** | **0.6** | **0.9** |
| C65 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C66 | - | - | - | - | - | - | - | - | -- | - | -- | - | - | - | -- | - | **-** | **-** | **-** |
| C67 | - | - | - | - | - | - | 0.3 | - | - | 1.4 | 3.0 | 4.3 | 2.2 | 6.9 | 4.4 | 5.0 | **0.7** | **0.9** | **1.6** |
| C68 | - | - | - | - | - | - | - | - | 0.4 | - | - | - | - | 1.0 | - | - | **0.05** | **0.1** | **0.1** |
| C69 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C70-C72 | 0.7 | 0.3 | 0.2 | - | 0.2 | 0.6 | 0.7 | 0.3 | 2.0 | 0.9 | 1.8 | 2.2 | 1.4 | 3.0 | 7.3 | 1.3 | **0.8** | **0.9** | **1.4** |
| C73 | - | - | - | - | - | - | - | - | - | - | - | 1.4 | 0.7 | 1.0 | 2.9 | - | **0.1** | **0.2** | **0.3** |
| C74 | - | - | - | - | - | 0.3 | - | - | - | - | - | - | - | 1.0 | - | - | **0.05** | **0.1** | **0.00** |
| C75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C81 | - | - | - | 0.4 | - | - | - | - | - | - | - | - | - | - | - | 1.3 | **0.1** | **0.1** | **0.00** |
| C82-C86,C96 | 0.4 | 0.3 | - | - | 0.2 | 0.3 | 0.3 | - | 1.2 | 0.9 | 3.0 | 5.1 | 5.8 | 3.0 | 4.4 | 3.8 | **0.9** | **1.1** | **2.3** |
| C88 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | **-** | **-** | **-** |
| C90 | - | - | - | - | - | - | - | - | - | 0.5 | 3.6 | 2.2 | 5.1 | 4.0 | 2.9 | - | **0.5** | **0.7** | **1.6** |
| C91 | 0.4 | - | 0.2 | 0.4 | 0.6 | - | - | 0.3 | 0.4 | - | 1.2 | 0.7 | 1.4 | 1.0 | - | - | **0.3** | **0.4** | **0.6** |
| C92-C94 | - | - | 0.2 | 0.2 | 0.2 | 0.6 | 1.0 | 0.3 | 0.4 | 0.5 | 1.2 | 0.7 | 1.4 | - | - | - | **0.4** | **0.4** | **0.7** |
| C95 | 0.4 | - | 0.2 | 0.2 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.5 | - | 1.4 | 2.2 | 1.0 | - | - | **0.4** | **0.4** | **0.7** |
| O&U | - | - | 0.8 | 0.5 | 0.2 | 1.1 | 0.3 | 1.7 | 2.4 | 3.2 | 8.9 | 8.0 | 10.8 | 21.7 | 16.1 | 15.1 | **2.7** | **3.2** | **5.3** |
| **Total** | **2.9** | **0.5** | **1.8** | **3.4** | **4.7** | **8.9** | **20.0** | **26.7** | **60.0** | **69.4** | **108.9** | **165.0** | **179.0** | **229.3** | **245.8** | **190.5** | **40.4** | **47.3** | **92.2** |

* O & U includes the sites (ICD - 10: C26, C39, C48, 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: 2020-2021 – 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 | - | - | - | - | - | - | - | - | 0.4 | - | 0.6 | - | - | - | - | - | **0.1** | **0.1** | **0.2** |
| C01-C02 | - | - | - | - | 0.3 | - | 0.7 | 1.0 | 2.1 | 2.0 | 2.5 | 2.1 | 3.8 | 4.4 | 11.2 | 2.6 | **1.0** | **1.1** | **2.2** |
| C03-C06 | - | - | - | - | - | 0.3 | 0.7 | 1.0 | 1.7 | 3.4 | 6.4 | 3.5 | 6.1 | 11.1 | 4.8 | 5.1 | **1.4** | **1.7** | **3.5** |
| C07-C08 | - | - | - | - | - | - | 0.7 | - | - | 0.5 | 0.6 | - | - | - | - | - | **0.1** | **0.1** | **0.2** |
| C09 | - | - | - | - | - | - | - | - | - | 0.5 | - | - | - | - | 1.6 | - | **0.1** | **0.1** | **0.1** |
| C10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11 | - | - | - | 0.2 | - | 0.3 | - | - | - | - | - | - | - | - | - | - | **0.1** | **0.04** | **0.00** |
| C12-C13 | - | - | - | - | - | - | - | - | - | 0.5 | - | - | - | - | - | - | **0.03** | **0.03** | **0.1** |
| C14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C15 | - | - | - | - | - | - | - | - | - | 1.0 | - | 2.1 | 2.3 | 3.3 | 4.8 | 6.4 | **0.5** | **0.6** | **0.8** |
| C16 | - | - | - | - | 0.3 | - | 0.7 | 0.7 | 0.4 | 2.5 | 4.5 | 1.4 | 5.3 | 5.6 | 8.0 | 5.1 | **1.0** | **1.2** | **2.3** |
| C17 | - | - | - | - | - | - | - | - | - | 0.5 | 0.6 | - | - | - | - | - | **0.1** | **0.1** | **0.2** |
| C18 | - | - | - | - | - | 0.6 | 0.3 | - | 1.3 | 1.5 | 0.6 | - | 1.5 | - | - | 2.6 | **0.4** | **0.4** | **0.8** |
| C19-C20 | - | - | 0.2 | - | - | 0.6 | 0.7 | 0.3 | 0.4 | - | 1.3 | 0.7 | 0.8 | 3.3 | - | - | **0.4** | **0.4** | **0.5** |
| C21 | - | - | - | - | - | - | - | 0.3 | - | - | - | - | - | 1.1 | - | 1.3 | **0.1** | **0.1** | **0.1** |
| C22 | - | - | - | - | 0.8 | 0.6 | - | 1.7 | 2.1 | 4.4 | 7.6 | 4.9 | 9.2 | 7.8 | 3.2 | 3.8 | **1.7** | **1.9** | **4.6** |
| C23-C24 | - | - | - | - | 0.3 | 0.6 | 0.7 | 6.5 | 8.0 | 12.7 | 28.6 | 29.0 | 28.2 | 30.0 | 25.5 | 15.3 | **6.3** | **7.2** | **17.3** |
| C25 | - | - | - | - | 0.3 | - | 0.3 | - | 0.8 | - | 1.3 | 2.8 | 1.5 | 2.2 | 4.8 | 3.8 | **0.5** | **0.6** | **0.9** |
| C30-C31 | - | - | - | - | - | - | - | - | - | 0.5 | - | - | - | 1.1 | - | - | **0.1** | **0.1** | **0.1** |
| C32 | - | - | - | - | - | - | - | 0.3 | - | - | - | - | - | 4.4 | - | - | **0.1** | **0.2** | **0.1** |
| C33-C34 | - | - | - | - | - | 0.3 | 1.0 | 1.0 | 3.8 | 3.4 | 7.6 | 8.5 | 5.3 | 7.8 | 8.0 | 3.8 | **1.8** | **2.0** | **4.6** |
| C37-C38 | - | - | - | - | - | - | - | - | - | 0.5 | - | - | - | - | - | - | **0.03** | **0.03** | **0.1** |
| C40-C41 | - | - | 1.0 | - | - | - | 1.7 | - | 0.4 | - | - | - | 1.5 | 2.2 | 1.6 | - | **0.4** | **0.4** | **0.3** |
| C43 | - | - | - | - | - | - | 0.3 | - | - | - | - | 0.7 | - | 1.1 | - | - | **0.1** | **0.1** | **0.1** |
| C44 | - | - | - | 0.2 | - | - | - | 0.7 | 0.4 | - | - | - | - | - | 1.6 | - | **0.1** | **0.1** | **0.2** |
| C45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C46 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C47,C49 | 0.5 | 0.3 | - | 0.4 | - | - | - | - | - | 1.0 | - | 0.7 | - | 1.1 | 3.2 | - | **0.3** | **0.3** | **0.3** |
| C50 | - | - | - | - | 0.3 | 1.2 | 5.0 | 6.8 | 11.3 | 16.7 | 14.6 | 21.9 | 19.1 | 27.8 | 19.1 | 10.2 | **5.7** | **6.3** | **14.4** |
| C51 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.6 | - | **0.03** | **0.03** | **0.00** |
| C52 | - | - | - | - | - | - | - | 0.3 | 0.8 | 0.5 | 0.6 | - | 1.5 | - | - | 2.6 | **0.2** | **0.2** | **0.6** |
| C53 | - | - | - | - | 0.5 | 0.3 | 0.7 | 2.0 | 4.2 | 11.8 | 8.9 | 14.8 | 17.5 | 17.8 | 16.0 | 7.7 | **3.4** | **3.9** | **9.1** |
| C54 | - | - | - | - | - | - | - | - | 0.4 | - | 1.9 | 1.4 | 3.1 | 5.6 | 3.2 | - | **0.4** | **0.5** | **1.0** |
| C55 | - | - | - | - | - | - | - | 0.3 | 1.3 | 0.5 | - | 1.4 | - | 1.1 | - | 1.3 | **0.2** | **0.2** | **0.6** |
| C56 | - | - | 0.2 | 0.6 | - | 0.9 | 0.7 | 1.4 | 3.8 | 7.4 | 6.4 | 6.4 | 5.3 | 7.8 | 11.2 | 5.1 | **2.1** | **2.3** | **5.0** |
| C57 | - | - | - | - | - | - | - | - | - | 0.5 | - | - | 0.8 | - | - | - | **0.1** | **0.1** | **0.2** |
| C58 | | | | | | | | | | | | | | | | | | | |
| C64 | - | - | - | - | - | - | 0.3 | - | 0.4 | 1.0 | 0.6 | 0.7 | 0.8 | 1.1 | - | 1.3 | **0.2** | **0.3** | **0.6** |
| C65 | - | - | - | - | - | - | - | - | - | - | - | - | 0.8 | - | - | - | **0.03** | **0.03** | **0.1** |
| C66 | - | - | - | - | - | - | - | - | 0.4 | - | - | - | - | - | - | - | **0.03** | **0.03** | **0.1** |
| C67 | - | - | - | - | - | - | - | - | 0.4 | 0.5 | - | 0.7 | 0.8 | 6.7 | - | 1.3 | **0.3** | **0.3** | **0.4** |
| C68 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C69 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C70-C72 | 0.5 | - | - | - | - | - | - | 0.3 | 2.5 | 0.5 | 1.3 | 4.2 | 1.5 | 2.2 | - | - | **0.5** | **0.6** | **1.6** |
| C73 | - | - | - | - | - | - | - | - | - | 0.5 | - | 0.7 | 0.8 | 2.2 | 1.6 | 1.3 | **0.2** | **0.2** | **0.3** |
| C74 | - | 0.3 | - | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | **0.1** | **0.05** | **0.00** |
| C75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C81 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.1 | - | - | **0.03** | **0.03** | **0.00** |
| C82-C86,C96 | - | - | - | - | - | - | 0.3 | 0.3 | 0.8 | - | 1.3 | 2.1 | 2.3 | 2.2 | 1.6 | 2.6 | **0.4** | **0.5** | **1.0** |
| C88 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C90 | - | - | - | - | - | - | - | - | 0.4 | 0.5 | 2.5 | - | - | 1.1 | 1.6 | 2.6 | **0.3** | **0.3** | **0.6** |
| C91 | - | - | - | - | - | - | - | - | - | 0.5 | - | 1.4 | 0.8 | - | - | 2.6 | **0.2** | **0.2** | **0.4** |
| C92-C94 | - | - | - | 0.4 | - | 0.6 | 0.3 | 1.0 | 1.3 | 0.5 | - | 2.8 | 0.8 | 1.1 | - | - | **0.5** | **0.4** | **1.0** |
| C95 | - | 0.3 | - | 0.2 | 0.3 | 0.3 | - | - | - | 2.0 | - | 1.4 | - | 1.1 | - | - | **0.3** | **0.3** | **0.6** |
| O&U | 0.5 | 0.3 | 0.2 | 0.4 | 0.3 | 0.6 | 0.3 | 0.3 | 1.3 | 4.9 | 3.2 | 5.6 | 6.1 | 7.8 | 14.4 | 7.7 | **1.7** | **1.9** | **3.3** |
| **Total** | **1.4** | **1.3** | **1.6** | **2.5** | **3.2** | **7.1** | **15.2** | **26.6** | **51.2** | **82.8** | **103.7** | **122.2** | **127.4** | **173.2** | **148.4** | **95.8** | **33.2** | **37.3** | **80.0** |

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

# 20. Paediatric cancer incidence tables as per ICCC-3 standard

**Table 36: Number of cases in paediatric age-group, incidence rate per million population: 2020-2021 (Both sex)**

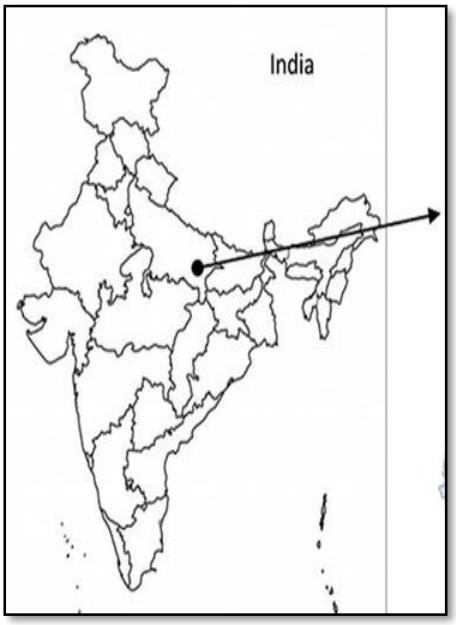
| ICCC | Site | 0-4 | 5-9 | 10-14 | 15-19 | 0-14 | 0-19 | Percentage (0-14) | | Percentage (0-19) | | Age-specific rate per 1,000,000 | | | | AAR | | Cumulative risk | | MV % 0-19 | DCO % 0-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | All | Group | All | Group | 0-4 | 5-9 | 10-14 | 15-19 | 0-14 | 0-19 | 0-14 | 0-19 | | |
| **I** | **LEUKAEMIA** | **13** | **14** | **9** | **16** | **36** | **52** | **34.3** | **100.0** | **32.7** | **100.0** | **26.4** | **19.9** | **9.4** | **14.8** | **19.3** | **18.3** | **3595** | **2840** | **98.1** | **-** |
| a. | Lymphoid | 6 | 9 | 3 | 3 | 18 | 21 | 17.1 | 50.0 | 13.2 | 40.4 | 12.2 | 12.8 | 3.1 | 2.8 | 9.7 | 8.2 | 7124 | 6483 | 100 | - |
| b. | Acute myeloid | - | 1 | 2 | 3 | 3 | 6 | 2.9 | 8.3 | 3.8 | 11.5 | - | 1.4 | 2.1 | 2.8 | 1.1 | 1.4 | 57124 | 31869 | 100 | - |
| c. | CMD | - | 2 | 2 | 4 | 4 | 8 | 3.8 | 11.1 | 5.0 | 15.4 | - | 2.8 | 2.1 | 3.7 | 1.5 | 2.0 | 40650 | 23204 | 100 | - |
| d. | MDS & other | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| e. | Unspecified | 7 | 2 | 2 | 6 | 11 | 17 | 10.5 | 30.6 | 10.7 | 32.7 | 14.2 | 2.8 | 2.1 | 5.5 | 7.0 | 6.7 | 10453 | 8103 | 94.1 | - |
| **II** | **LYMPHOMA & RELATED** | **3** | **7** | **11** | **4** | **21** | **25** | **20.0** | **100.0** | **15.7** | **100.0** | **6.1** | **9.9** | **11.5** | **3.7** | **8.9** | **7.7** | **7279** | **6416** | **100** | **-** |
| a. | Hodgkin | 1 | 2 | 6 | 1 | 9 | 10 | 8.6 | 42.9 | 6.3 | 40.0 | 2.0 | 2.8 | 6.2 | 0.9 | 3.5 | 2.9 | 17994 | 16611 | 100 | - |
| b. | Non-Hodgkin except BL | 1 | 2 | 5 | 3 | 8 | 11 | 7.6 | 38.1 | 6.9 | 44.0 | 2.0 | 2.8 | 5.2 | 2.8 | 3.2 | 3.1 | 19853 | 15566 | 100 | - |
| c. | Burkitt (BL) | - | 1 | - | - | 1 | 1 | 1.0 | 4.8 | 0.6 | 4.0 | - | 1.4 | - | - | 0.5 | 0.4 | 140957 | 140957 | 100 | - |
| d. | Lymphoreticular | 1 | - | - | - | 1 | 1 | 1.0 | 4.8 | 0.6 | 4.0 | 2.0 | - | - | - | 0.8 | 0.6 | 98489 | 98489 | 100 | - |
| e. | Unspecified | - | 2 | - | - | 2 | 2 | 1.9 | 9.5 | 1.3 | 8.0 | - | 2.8 | - | - | 0.9 | 0.7 | 70479 | 70479 | 100 | - |
| **III** | **CNS NEOPLASMS** | **4** | **2** | **-** | **1** | **6** | **7** | **5.7** | **100.0** | **4.4** | **100.0** | **8.1** | **2.8** | **-** | **0.9** | **4.1** | **3.4** | **18248** | **16828** | **85.7** | **-** |
| a. | Ependymoma | 2 | - | - | - | 2 | 2 | 1.9 | 33.3 | 1.3 | 28.6 | 4.1 | - | - | - | 1.6 | 1.2 | 49245 | 49245 | 100 | - |
| b. | Astrocytoma | 1 | 2 | - | 1 | 3 | 4 | 2.9 | 50.0 | 2.5 | 57.1 | 2.0 | 2.8 | - | 0.9 | 1.7 | 1.5 | 41081 | 34523 | 100 | - |
| c. | CNS embryonal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| d. | Other gliomas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| e. | Other specified | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| f. | Unspecified CNS | 1 | - | - | - | 1 | 1 | 1.0 | 16.7 | 0.6 | 14.3 | 2.0 | - | - | - | 0.8 | 0.6 | 98489 | 98489 | - | - |
| **IV** | **NEUROBLASTOMA** | **4** | **1** | **1** | **-** | **6** | **6** | **5.7** | **100.0** | **3.8** | **100.0** | **8.1** | **1.4** | **1.0** | **-** | **3.9** | **3.0** | **18899** | **18899** | **100** | **-** |
| a. | (Ganglio)neuroblastoma | 4 | 1 | - | - | 5 | 5 | 4.8 | 83.3 | 3.1 | 83.3 | 8.1 | 1.4 | - | - | 3.6 | 2.8 | 20961 | 20961 | 100 | - |
| b. | Peripheral nervous | - | - | 1 | - | 1 | 1 | 1.0 | 16.7 | 0.6 | 16.7 | - | - | 1.0 | - | 0.3 | 0.2 | 192095 | 192095 | 100 | - |
| **V** | **RETINOBLASTOMA** | **4** | **-** | **-** | **-** | **4** | **4** | **3.8** | **100.0** | **2.5** | **100.0** | **8.1** | **-** | **-** | **-** | **3.1** | **2.4** | **24623** | **24623** | **100** | **-** |
| **VI** | **RENAL TUMOURS** | **5** | **-** | **-** | **-** | **5** | **5** | **4.8** | **100.0** | **3.1** | **100.0** | **10.2** | **-** | **-** | **-** | **3.9** | **3.0** | **19698** | **19698** | **100** | **-** |
| a. | Nephroblastoma | 5 | - | - | - | 5 | 5 | 4.8 | 100.0 | 3.1 | 100.0 | 10.2 | - | - | - | 3.9 | 3.0 | 19698 | 19698 | 100 | - |
| b. | Renal carcinoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| c. | Unspecified | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **VII** | **HEPATIC TUMOURS** | **1** | **1** | **-** | **-** | **2** | **2** | **1.9** | **100.0** | **1.3** | **100.0** | **2.0** | **1.4** | **-** | **-** | **1.2** | **1.0** | **57979** | **57979** | **50.0** | **-** |
| a. | Hepatoblastoma | 1 | - | - | - | 1 | 1 | 1.0 | 50.0 | 0.6 | 50.0 | 2.0 | - | - | - | 0.8 | 0.6 | 98489 | 98489 | 100 | - |
| b. | Hepatic carcinoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| c. | Unspecified | - | 1 | - | - | 1 | 1 | 1.0 | 50.0 | 0.6 | 50.0 | - | 1.4 | - | - | 0.5 | 0.4 | 140957 | 140957 | - | - |
| **VIII** | **BONE TUMOURS** | **-** | **2** | **3** | **4** | **5** | **9** | **4.8** | **100.0** | **5.7** | **100.0** | **-** | **2.8** | **3.1** | **3.7** | **1.8** | **2.2** | **33551** | **20703** | **88.9** | **-** |
| a. | Osteosarcoma | - | 1 | 2 | 1 | 3 | 4 | 2.9 | 60.0 | 2.5 | 44.4 | - | 1.4 | 2.1 | 0.9 | 1.1 | 1.0 | 57124 | 45187 | 100 | - |
| b. | Chondrosarcoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100 | - |
| c. | Ewing & related | - | 1 | 1 | 1 | 2 | 3 | 1.9 | 40.0 | 1.9 | 33.3 | - | 1.4 | 1.0 | 0.9 | 0.8 | 0.8 | 81300 | 59086 | 100 | - |
| d. | Other specified | - | - | - | 1 | - | 1 | - | - | 0.6 | 11.1 | - | - | - | 0.9 | - | 0.2 | - | 216247 | 100 | - |
| e. | Unspecified | - | - | - | 1 | - | 1 | - | - | 0.6 | 11.1 | - | - | - | 0.9 | - | 0.2 | - | 216247 | 100 | - |
| **IX** | **SOFT TISSUE SARCOMA** | **3** | **2** | **1** | **3** | **6** | **9** | **5.7** | **100.0** | **5.7** | **100.0** | **6.1** | **2.8** | **1.0** | **2.8** | **3.6** | **3.4** | **20059** | **15692** | **100** | **-** |
| a. | Rhabdomyosarcoma | 3 | 1 | - | - | 4 | 4 | 3.8 | 66.7 | 2.5 | 44.4 | 6.1 | 1.4 | - | - | 2.8 | 2.2 | 26628 | 26628 | 100 | - |
| b. | Fibrosarcoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| c. | Kaposi sarcoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| d. | Other specified | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| e. | Unspecified | - | 1 | 1 | 3 | 2 | 5 | 1.9 | 33.3 | 3.1 | 55.6 | - | 1.4 | 1.0 | 2.8 | 0.8 | 1.2 | 81300 | 38207 | 100 | - |
| **X** | **GERM CELL TUMOURS** | **4** | **-** | **2** | **7** | **6** | **13** | **5.7** | **100.0** | **8.2** | **100.0** | **8.1** | **0.0** | **2.1** | **6.5** | **3.7** | **4.4** | **19599** | **11992** | **84.6** | **-** |
| a. | CNS germ cell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| b. | Other extragonadal | 1 | - | - | - | 1 | 1 | 1.0 | 16.7 | 0.6 | 7.7 | 2.0 | - | - | - | 0.8 | 0.6 | 98489 | 98489 | 100 | - |
| c. | Gonadal germ cell | 3 | - | 1 | 3 | 4 | 7 | 3.8 | 66.7 | 4.4 | 53.8 | 6.1 | - | 1.0 | 2.8 | 2.7 | 2.7 | 28038 | 20187 | 100 | - |
| d. | Gonadal carcinoma | - | - | - | 3 | - | 3 | - | - | 1.9 | 23.1 | - | - | - | 2.8 | 0.0 | 0.6 | - | 72083 | 100 | - |
| e. | Unspecified gonadal | - | - | 1 | 1 | 1 | 2 | 1.0 | 16.7 | 1.3 | 15.4 | - | - | 1.0 | 0.9 | 0.3 | 0.4 | 192095 | 101729 | - | - |
| **XI** | **CARCINOMA & MELANOMA** | **-** | **1** | **-** | **11** | **1** | **12** | **1.0** | **100.0** | **7.5** | **100.0** | **-** | **1.4** | **-** | **10.2** | **0.5** | **2.6** | **140957** | **17253** | **100** | **-** |
| a. | Adrenocortical | - | 1 | - | - | 1 | 1 | 1.0 | 100.0 | 0.6 | 8.3 | - | 1.4 | - | - | 0.5 | 0.4 | 140957 | 140957 | 100 | - |
| b. | Thyroid | - | - | - | 2 | - | 2 | - | - | 1.3 | 16.7 | - | - | - | 1.8 | - | 0.4 | - | 108124 | 100 | - |
| c. | Nasopharyngeal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| d. | Melanoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| e. | Skin carcinoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| f. | Other & unspecified | - | - | - | 9 | - | 9 | - | - | 5.7 | 75.0 | - | - | - | 8.3 | - | 1.9 | - | 24028 | 100 | - |
| **XII** | **OTHER & UNSPECIFIED** | **3** | **1** | **3** | **8** | **7** | **15** | **6.7** | **100.0** | **9.4** | **100.0** | **6.1** | **1.4** | **3.1** | **7.4** | **3.7** | **4.5** | **18807** | **11091** | **-** | **-** |
| a. | Other specified | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| b. | Other unspecified | 3 | 1 | 3 | 8 | 7 | 15 | 6.7 | 100.0 | 9.4 | 100.0 | 6.1 | 1.4 | 3.1 | 7.4 | 3.7 | 4.5 | 18807 | 11091 | - | - |
| | **Total** | **44** | **31** | **30** | **54** | **105** | **159** | **100.0** | **100.0** | **100.0** | **100.0** | **89.4** | **44.0** | **31.2** | **49.9** | **57.8** | **56.1** | **1216** | **933** | **86.8** | **-** |

## Table 37: Number of cases in paediatric age-group, incidence rate per million population: 2020-2021 (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** | **10** | **9** | **6** | **9** | **25** | **34** | **25.2** | **23.2** | **2.3** | **1.9** | **3** | **5** | **3** | **7** | **11** | **18** | **12.2** | **12.5** |
| a. | Lymphoid | 4 | 6 | 2 | 3 | 12 | 15 | 11.9 | 10.4 | 2.0 | 2.5 | 2 | 3 | 1 | - | 6 | 6 | 7.2 | 5.6 |
| b. | Acute myeloid | - | 1 | 1 | 2 | 2 | 4 | 1.4 | 1.9 | 2.0 | 2.0 | - | - | 1 | 1 | 1 | 2 | 0.6 | 0.9 |
| c. | CMD | - | 1 | 1 | 1 | 2 | 3 | 1.4 | 1.5 | 1.0 | 0.6 | - | 1 | 1 | 3 | 2 | 5 | 1.6 | 2.6 |
| d. | MDS & other | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| e. | Unspecified | 6 | 1 | 2 | 3 | 9 | 12 | 10.5 | 9.4 | 4.5 | 2.4 | 1 | 1 | 0 | 3 | 2 | 5 | 2.8 | 3.4 |
| **II** | **LYMPHOMA & RELATED** | **2** | **7** | **8** | **3** | **17** | **20** | **13.3** | **11.5** | **4.3** | **4.0** | **1** | **-** | **3** | **1** | **4** | **5** | **3.6** | **3.3** |
| a. | Hodgkin | - | 2 | 4 | 1 | 6 | 7 | 4.0 | 3.5 | 2.0 | 2.3 | 1 | - | 2 | - | 3 | 3 | 3.0 | 2.3 |
| b. | Non-Hodgkin except BL | 1 | 2 | 4 | 2 | 7 | 9 | 5.4 | 5.0 | 7.0 | 4.5 | - | - | 1 | 1 | 1 | 2 | 0.6 | 0.9 |
| c. | Burkitt (BL) | - | 1 | - | - | 1 | 1 | 0.8 | 0.6 | 0.0 | 0.0 | - | - | - | - | - | - | - | - |
| d. | Lymphoreticular | 1 | - | - | - | 1 | 1 | 1.4 | 1.1 | 0.0 | 0.0 | - | - | - | - | - | - | - | - |
| e. | Unspecified | - | 2 | - | - | 2 | 2 | 1.7 | 1.3 | 0.0 | 0.0 | - | - | - | - | - | - | - | - |
| **III** | **CNS NEOPLASMS** | **3** | **1** | **-** | **1** | **4** | **5** | **5.1** | **4.4** | **2.0** | **2.5** | **1** | **1** | **-** | **-** | **2** | **2** | **2.8** | **2.1** |
| a. | Ependymoma | 2 | - | - | - | 2 | 2 | 2.8 | 2.2 | 0.0 | 0.0 | - | - | - | - | - | - | - | - |
| b. | Astrocytoma | 1 | 1 | - | 1 | 2 | 3 | 2.3 | 2.2 | 2.0 | 3.0 | - | 1 | - | - | 1 | 1 | 1.0 | 0.8 |
| c. | CNS embryonal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| d. | Other gliomas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| e. | Other specified | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| f. | Unspecified CNS | - | - | - | - | - | - | - | - | 0.0 | 0.0 | 1 | - | - | - | 1 | 1 | 1.8 | 1.4 |
| **IV** | **NEUROBLASTOMA** | **4** | **1** | **1** | **-** | **6** | **6** | **7.1** | **5.5** | 0.0 | 0.0 | - | - | - | - | - | - | - | - |
| a. | (Ganglio)neuroblastoma | 4 | 1 | - | - | 5 | 5 | 6.5 | 5.1 | 0.0 | 0.0 | - | - | - | - | - | - | - | - |
| b. | Peripheral nervous | - | - | 1 | - | 1 | 1 | 0.6 | 0.4 | 0.0 | 0.0 | - | - | - | - | - | - | - | - |
| **V** | **RETINOBLASTOMA** | **3** | **-** | **-** | **-** | **3** | **3** | **4.3** | **3.3** | **3.0** | **3.0** | **1** | **-** | **-** | **-** | **1** | **1** | **1.8** | **1.4** |
| **VI** | **RENAL TUMOURS** | **2** | **-** | **-** | **-** | **2** | **2** | **2.8** | **2.2** | **0.7** | **0.7** | **3** | **-** | **-** | **-** | **3** | **3** | **5.3** | **4.1** |
| a. | Nephroblastoma | 2 | - | - | - | 2 | 2 | 2.8 | 2.2 | 0.7 | 0.7 | 3 | - | - | - | 3 | 3 | 5.3 | 4.1 |
| b. | Renal carcinoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| c. | Unspecified | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **VII** | **HEPATIC TUMOURS** | **-** | **1** | **-** | **-** | **1** | **1** | **0.8** | **0.6** | **1.0** | **1.0** | **1** | **-** | **-** | **-** | **1** | **1** | **1.8** | **1.4** |
| a. | Hepatoblastoma | - | - | - | - | - | - | - | - | 0.0 | 0.0 | 1 | - | - | - | 1 | 1 | 1.8 | 1.4 |
| b. | Hepatic carcinoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| c. | Unspecified | - | 1 | - | - | 1 | 1 | 0.8 | 0.6 | 0.0 | 0.0 | - | - | - | - | - | - | - | - |
| **VIII** | **BONE TUMOURS** | **-** | **1** | **1** | **3** | **2** | **5** | **1.4** | **2.3** | **0.7** | **1.3** | **-** | **1** | **2** | **1** | **3** | **4** | **2.3** | **2.2** |
| a. | Osteosarcoma | - | - | - | 1 | - | 1 | - | 0.4 | 0.0 | 0.3 | - | 1 | 2 | - | 3 | 3 | 2.3 | 1.8 |
| b. | Chondrosarcoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| c. | Ewing & related | - | 1 | 1 | 1 | 2 | 3 | 1.4 | 1.5 | 0.0 | 0.0 | - | - | - | - | - | - | - | - |
| d. | Other specified | - | - | - | 1 | - | 1 | - | 0.4 | - | 0.0 | - | - | - | - | - | - | - | - |
| e. | Unspecified | - | - | - | - | - | - | - | - | - | 0.0 | - | - | - | 1 | - | 1 | - | 0.4 |
| **IX** | **SOFT TISSUE SARCOMA** | **2** | **1** | **1** | **1** | **4** | **5** | **4.3** | **3.7** | **2.0** | **1.3** | **1** | **1** | **-** | **2** | **2** | **4** | **2.8** | **3.0** |
| a. | Rhabdomyosarcoma | 2 | - | - | - | 2 | 2 | 2.8 | 2.2 | 1.0 | 1.0 | 1 | 1 | - | - | 2 | 2 | 2.8 | 2.1 |
| b. | Fibrosarcoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| c. | Kaposi sarcoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| d. | Other specified | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| e. | Unspecified | - | 1 | 1 | 1 | 2 | 3 | 1.4 | 1.5 | 0.0 | 1.5 | - | - | - | 2 | - | 2 | - | 0.9 |
| **X** | **GERM CELL TUMOURS** | **3** | **-** | **-** | **3** | **3** | **6** | **4.3** | **4.5** | **1.0** | **0.9** | **1** | **-** | **2** | **4** | **3** | **7** | **3.0** | **4.1** |
| a. | CNS germ cell | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| b. | Other extragonadal | 1 | - | - | - | 1 | 1 | 1.4 | 1.1 | 0.0 | 0.0 | - | - | - | - | - | - | - | - |
| c. | Gonadal germ cell | 2 | - | - | 3 | 2 | 5 | 2.8 | 3.4 | 1.0 | 2.5 | 1 | - | 1 | - | 2 | 2 | 2.4 | 1.8 |
| d. | Gonadal carcinoma | - | - | - | - | - | - | - | - | 0.0 | 0.0 | - | - | - | 3 | - | 3 | 0.0 | 1.3 |
| e. | Unspecified gonadal | - | - | - | - | - | - | - | - | 0.0 | 0.0 | - | - | 1 | 1 | 1 | 2 | 0.6 | 0.9 |
| **XI** | **CARCINOMA & MELANOMA** | **-** | **-** | **-** | **8** | **-** | **8** | **-** | **3.2** | **0.0** | **2.0** | **-** | **1** | **-** | **3** | **1** | **4** | **1.0** | **2.1** |
| a. | Adrenocortical | - | - | - | - | - | - | - | - | 0.0 | 0.0 | - | 1 | - | - | 1 | 1 | 1.0 | 0.8 |
| b. | Thyroid | - | - | - | - | - | - | - | - | 0.0 | 0.0 | - | - | - | 2 | - | 2 | - | 0.9 |
| c. | Nasopharyngeal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| d. | Melanoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| e. | Skin carcinoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| f. | Other & unspecified | - | - | - | 8 | - | 8 | - | 3.2 | - | 0.0 | - | - | - | 1 | - | 1 | - | 0.4 |
| **XII** | **OTHER & UNSPECIFIED** | **2** | **-** | **2** | **5** | **4** | **9** | **4.0** | **5.1** | **1.3** | **1.5** | **1** | **1** | **1** | **3** | **3** | **6** | **3.4** | **3.9** |
| a. | Other specified | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| b. | Other unspecified | 2 | - | 2 | 5 | 4 | 9 | 4.0 | 5.1 | 1.3 | 1.5 | 1 | 1 | 1 | 3 | 3 | 6 | 3.4 | 3.9 |
| | **Total** | **31** | **21** | **19** | **33** | **71** | **104** | **72.7** | **69.6** | **2.1** | **1.9** | **13** | **10** | **11** | **21** | **34** | **55** | **39.9** | **40.0** |

# 21. Village-wise incidence and mortality cases: 2017-2019

We are presenting village-wise incidence and mortality cases registered in the year 2020-2021.





**Cancer incidence cases and mortality cases: Varanasi district (2020-2021)**
**(Urban and rural area)**

| Block | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|
| | Male | Female | Total | Male | Female | Total |
| Varanasi Urban Area* | 1378 | 1021 | 2399 | 905 | 590 | 1495 |
| Arajiline | 167 | 140 | 307 | 116 | 112 | 228 |
| Baragaon | 127 | 107 | 234 | 100 | 73 | 173 |
| Chiraigaon | 115 | 82 | 197 | 84 | 82 | 166 |
| Cholapur | 137 | 95 | 232 | 102 | 79 | 181 |
| Harhua | 138 | 107 | 245 | 100 | 81 | 181 |
| Kashividyapeeth | 158 | 138 | 296 | 109 | 90 | 199 |
| Pindra | 166 | 136 | 302 | 120 | 105 | 225 |
| Sewapuri | 128 | 106 | 234 | 103 | 94 | 197 |
| **Total** | **2,514** | **1,932** | **4,446** | **1,739** | **1,306** | **3,045** |

*** Including new census town**

## Cancer incidence cases and mortality cases: Varanasi urban area (2020-2021)

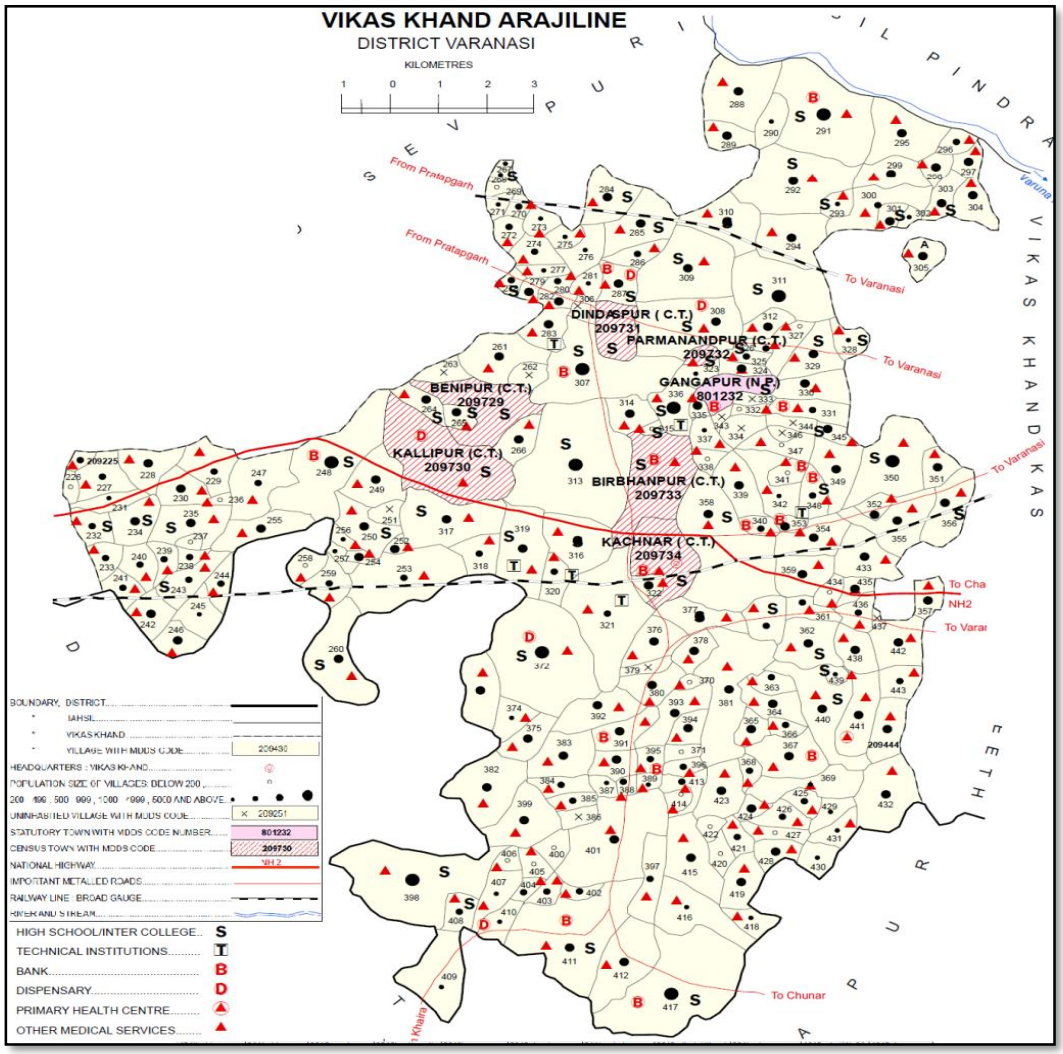
| Sr. No. | Urban area | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 1 | Akaga Ganj | - | 2 | 2 | 2 | 1 | 3 |
| 2 | Aktha | 6 | 5 | 11 | 5 | 2 | 7 |
| 3 | Alaipura | 3 | 3 | 6 | 7 | 2 | 9 |
| 4 | Ashapur | 11 | 6 | 17 | 4 | 8 | 12 |
| 5 | Bagahara | 1 | 2 | 3 | 1 | - | 1 |
| 6 | Baluwa Bir | 1 | 3 | 4 | 1 | 2 | 3 |
| 7 | Bandhuk Kachhi Bag | 7 | 2 | 9 | 7 | 2 | 9 |
| 8 | Bangali Tola | 10 | 5 | 15 | 8 | 1 | 9 |
| 9 | Barjardiha | 23 | 20 | 43 | 25 | 9 | 34 |
| 10 | Benia | 4 | 3 | 7 | 3 | 3 | 6 |
| 11 | Bhadani | 9 | 9 | 18 | 3 | 2 | 5 |
| 12 | Bhelupur | 30 | 20 | 50 | 13 | 11 | 24 |
| 13 | Bhoot Bhairav | - | - | - | - | 1 | 1 |
| 14 | Bridopur | 13 | 10 | 23 | 6 | 2 | 8 |
| 15 | Chatin Pura | 11 | 3 | 14 | 4 | 1 | 5 |
| 16 | Chetganj | 25 | 15 | 40 | 16 | 9 | 25 |
| 17 | Chitaipur | 4 | 1 | 5 | 2 | - | 2 |
| 18 | Choti Piyari | 7 | 9 | 16 | 7 | 4 | 11 |
| 19 | Chowka Ghat | 12 | 12 | 24 | 10 | 9 | 19 |
| 20 | City | 5 | 2 | 7 | 4 | 2 | 6 |
| 21 | Daniyalpur | 1 | 2 | 3 | 1 | 2 | 3 |
| 22 | Daranagar | 19 | 9 | 28 | 13 | 4 | 17 |
| 23 | Dasaswamedh | 30 | 20 | 50 | 15 | 13 | 28 |
| 24 | Dedhori Mahaal | 21 | 20 | 41 | 15 | 4 | 19 |
| 25 | Deen Dayal Pur | 2 | - | 2 | - | - | - |
| 26 | Dhup Chandi | 7 | 11 | 18 | 5 | 5 | 10 |
| 27 | Eswar Gangi | 4 | 4 | 8 | 1 | 4 | 5 |
| 28 | Gola Dina Nath | 21 | 10 | 31 | 16 | 8 | 24 |
| 29 | Graghwasi Tola | 7 | 7 | 14 | 6 | 3 | 9 |
| 30 | Habibpur | 4 | 5 | 9 | 3 | 2 | 5 |
| 31 | Harha | 4 | 2 | 6 | 4 | 2 | 6 |
| 32 | Hukulganj | 11 | 12 | 23 | 10 | 6 | 16 |
| 33 | Indrapur | 5 | 5 | 10 | 1 | 5 | 6 |
| 34 | Jagambadi | 1 | 2 | 3 | 1 | 1 | 2 |
| 35 | Jagatganj | 21 | 24 | 45 | 13 | 14 | 27 |
| 36 | Jaitpura | 38 | 22 | 60 | 29 | 8 | 37 |
| 37 | Jalalipur | 9 | 8 | 17 | 8 | 3 | 11 |

| Sr. No. | Urban area | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 38 | Jmaludinpur | 3 | - | 3 | 4 | - | 4 |
| 39 | Jolha | - | 2 | 2 | - | - | - |
| 40 | Kaal Bharav | 22 | 11 | 33 | 14 | 9 | 23 |
| 41 | Kahjuri | 16 | 13 | 29 | 11 | 5 | 16 |
| 42 | Kajipur | 5 | - | 5 | 2 | 2 | 4 |
| 43 | Kajisadulla Pura | 14 | 2 | 16 | 7 | 3 | 10 |
| 44 | Kakarmatta | 15 | 8 | 23 | 4 | 5 | 9 |
| 45 | Kamaccha | 8 | 8 | 16 | 3 | 4 | 7 |
| 46 | Kamal Pura | 2 | 2 | 4 | 4 | 2 | 6 |
| 47 | Kamalgarha | 5 | 1 | 6 | 3 | - | 3 |
| 48 | Kameshwar Mahadev | - | 3 | 3 | 1 | 2 | 3 |
| 49 | Kashipur | 2 | 1 | 3 | 1 | - | 1 |
| 50 | Katehar | 7 | 3 | 10 | 3 | 3 | 6 |
| 51 | Katuwa Pura | 1 | 3 | 4 | 2 | 1 | 3 |
| 52 | Khojwa | 16 | 28 | 44 | 12 | 12 | 24 |
| 53 | Konia | 6 | 11 | 17 | 6 | 6 | 12 |
| 54 | Lahang Pura | 9 | 4 | 13 | 6 | - | 6 |
| 55 | Lahartara | 23 | 18 | 41 | 12 | 13 | 25 |
| 56 | Lallapur Kala | 1 | 1 | 2 | 1 | 1 | 2 |
| 57 | Lallapura Khurd | 10 | 6 | 16 | 9 | 3 | 12 |
| 58 | Lanka | 6 | 3 | 9 | 5 | 2 | 7 |
| 59 | Lohatia | - | 1 | 1 | - | - | - |
| 60 | Loko Chatipur | 6 | 1 | 7 | 7 | 2 | 9 |
| 61 | Luxa | 15 | 12 | 27 | 14 | 4 | 18 |
| 62 | Madan Pura | 5 | 4 | 9 | 5 | 2 | 7 |
| 63 | Madhmaishewar | 3 | 1 | 4 | 3 | - | 3 |
| 64 | Maidagin | 16 | 11 | 27 | 9 | 4 | 13 |
| 65 | Nadesar | 25 | 30 | 55 | 15 | 17 | 32 |
| 66 | Nagwa | 12 | 19 | 31 | 9 | 11 | 20 |
| 67 | Nai Basti | 14 | 15 | 29 | 9 | 13 | 22 |
| 68 | Narayanpur | 4 | 1 | 5 | 2 | 1 | 3 |
| 69 | Naria | 18 | 12 | 30 | 7 | 9 | 16 |
| 70 | Nawab Ganj | 4 | 5 | 9 | 3 | 2 | 5 |
| 71 | Nawapura | 11 | 9 | 20 | 5 | 8 | 13 |
| 72 | Newada | 10 | 8 | 18 | 7 | 2 | 9 |
| 73 | Omkaleswar | 3 | - | 3 | 1 | 2 | 3 |
| 74 | Pahriya | 27 | 13 | 40 | 17 | 5 | 22 |
| 75 | Pan Dariba | 2 | - | 2 | - | - | - |
| 76 | Pandey Havali | 2 | 4 | 6 | 3 | - | 3 |

| Sr. No. | Urban Area | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 77 | Pandeypur | 38 | 26 | 64 | 23 | 18 | 41 |
| 78 | Peayarikala | 4 | 2 | 6 | 5 | 2 | 7 |
| 79 | Prahalad Ghat | 12 | 3 | 15 | 7 | 2 | 9 |
| 80 | Raj Mandir | 7 | 7 | 14 | 7 | 5 | 12 |
| 81 | Raja Bazaar | 6 | 2 | 8 | 5 | - | 5 |
| 82 | Rajghat | 10 | 4 | 14 | 9 | 2 | 11 |
| 83 | Ramapura | 11 | 5 | 16 | 8 | 2 | 10 |
| 84 | Ramerapur | 2 | 3 | 5 | 1 | - | 1 |
| 85 | Ramnagar | 42 | 23 | 65 | 32 | 16 | 48 |
| 86 | Ranipur | 5 | 6 | 11 | 4 | 3 | 7 |
| 87 | Rasulpura | 5 | - | 5 | 4 | 2 | 6 |
| 88 | Rawari Talab | 8 | - | 8 | 10 | 1 | 11 |
| 89 | Salempura | - | 4 | 4 | 1 | 1 | 2 |
| 90 | Sarai Growardhan | 3 | - | 3 | - | 1 | 1 |
| 91 | Sarai Surjan | 2 | 2 | 4 | 1 | 2 | 3 |
| 92 | Saraya | 8 | 3 | 11 | 3 | 4 | 7 |
| 93 | Sarnath | 37 | 27 | 64 | 18 | 13 | 31 |
| 94 | Sarsauli | 7 | 11 | 18 | 8 | 3 | 11 |
| 95 | Shivala | 20 | 13 | 33 | 11 | 7 | 18 |
| 96 | Shivpur | 65 | 41 | 106 | 43 | 30 | 73 |
| 97 | Shivpurwa | 15 | 13 | 28 | 10 | 6 | 16 |
| 98 | Sigra | 49 | 30 | 79 | 23 | 20 | 43 |
| 99 | Sikaraul | 18 | 10 | 28 | 12 | 5 | 17 |
| 100 | Sunderpur | 25 | 25 | 50 | 10 | 19 | 29 |
| 101 | Tarna | 13 | 8 | 21 | 10 | 4 | 14 |
| 102 | Tulsi Pur | 21 | 18 | 39 | 12 | 14 | 26 |
| 103 | Vinayka | - | 1 | 1 | 1 | - | 1 |
| **New census town** | | | | | | | |
| 104 | Benipur (Arajiline) | 10 | 2 | 12 | 4 | 2 | 6 |
| 105 | Kallipur (Arajiline) | 3 | 2 | 5 | 1 | - | 1 |
| 106 | Dindaspur (Arajiline) | 3 | 4 | 7 | 3 | 2 | 5 |
| 107 | Parmanandapur (Arajiline) | 3 | - | 3 | 2 | - | 2 |
| 108 | Birbhanpur (Arajiline) | 2 | 4 | 6 | 2 | 4 | 6 |
| 109 | Kachnar (Arajiline) | 7 | 5 | 12 | 2 | 3 | 5 |
| 110 | Chhitauni (Kashividyapeeth) | 2 | 2 | 4 | - | 1 | 1 |
| 111 | Chandpur (Kashividyapeeth) | 10 | 4 | 14 | 4 | 2 | 6 |
| 112 | Kakarmatta (Kashividyapeeth) | - | 1 | 1 | - | 2 | 2 |
| 113 | Kesaripur (Kashividyapeeth) | - | 1 | 1 | - | - | - |
| 114 | Harpalpur (Kashividyapeeth) | 2 | 2 | 4 | 3 | 1 | 4 |

| Sr. No. | Urban Area | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 115 | Amara Khaira Chak (Kashividyapeeth) | 5 | 1 | 6 | 1 | - | 1 |
| 116 | Jalal Patti (Kashividyapeeth) | 2 | 1 | 3 | 2 | 2 | 4 |
| 117 | Susuwahi (Kashividyapeeth) | 18 | 14 | 32 | 6 | 4 | 10 |
| 118 | Sir Govardhanpur (Kashividyapeeth) | 3 | 5 | 8 | 2 | 3 | 5 |
| 119 | Chhittupur (Kashividyapeeth) | 23 | 15 | 38 | 18 | 9 | 27 |
| 120 | Bhagwanpur (Kashividyapeeth) | 5 | 5 | 10 | 2 | 3 | 5 |
| 121 | Asapur (Kashividyapeeth) | 1 | - | 1 | - | - | - |
| 122 | Suzabad (Kashividyapeeth) | 10 | 7 | 17 | 3 | 5 | 8 |
| 123 | Kotwa (Kashividyapeeth) | 5 | 2 | 7 | 7 | 1 | 8 |
| 124 | Lohta (Kashividyapeeth) | 5 | 9 | 14 | 8 | 7 | 15 |
| 125 | Phulwariya (Kashividyapeeth) | 16 | 14 | 30 | 13 | 9 | 22 |
| 126 | Shivdashpur (Kashividyapeeth) | 9 | 13 | 22 | 1 | 7 | 8 |
| 127 | Kandawa (Kashividyapeeth) | 8 | 10 | 18 | 13 | 9 | 22 |
| 128 | Maruadih | 16 | 18 | 34 | 9 | 7 | 16 |
| 129 | Lehrupur (Chiraigaon) | 2 | - | 2 | - | - | - |
| 130 | Umaraha (Chiraigaon) | 5 | 2 | 7 | 3 | - | 3 |
| 131 | Salarpur (Chiraigaon) | 11 | 6 | 17 | 5 | 6 | 11 |
| 132 | Gaurakala (Chiraigaon) | - | 1 | 1 | - | - | - |
| 133 | Kotwa (Chiraigaon) | 2 | 1 | 3 | - | - | - |
| 134 | Sarai Mohana (Chiraigaon) | 8 | 3 | 11 | 6 | 1 | 7 |
| 135 | Baragaon (CT) | 2 | 3 | 5 | 1 | 1 | 2 |
| 136 | Gangapur (NP, Arajiline) | 8 | 2 | 10 | 7 | 1 | 8 |
| 137 | Lahartara (CT) | 1 | - | 1 | 1 | 1 | 2 |
| 138 | Maruadih Railway Settlement (ITS) | 3 | 6 | 9 | 3 | 5 | 8 |
| **Total** | | **1,378** | **1,021** | **2,399** | **905** | **590** | **1,495** |

## Cancer incidence cases and mortality cases: Arajiline, Varanasi district (2020-2021)



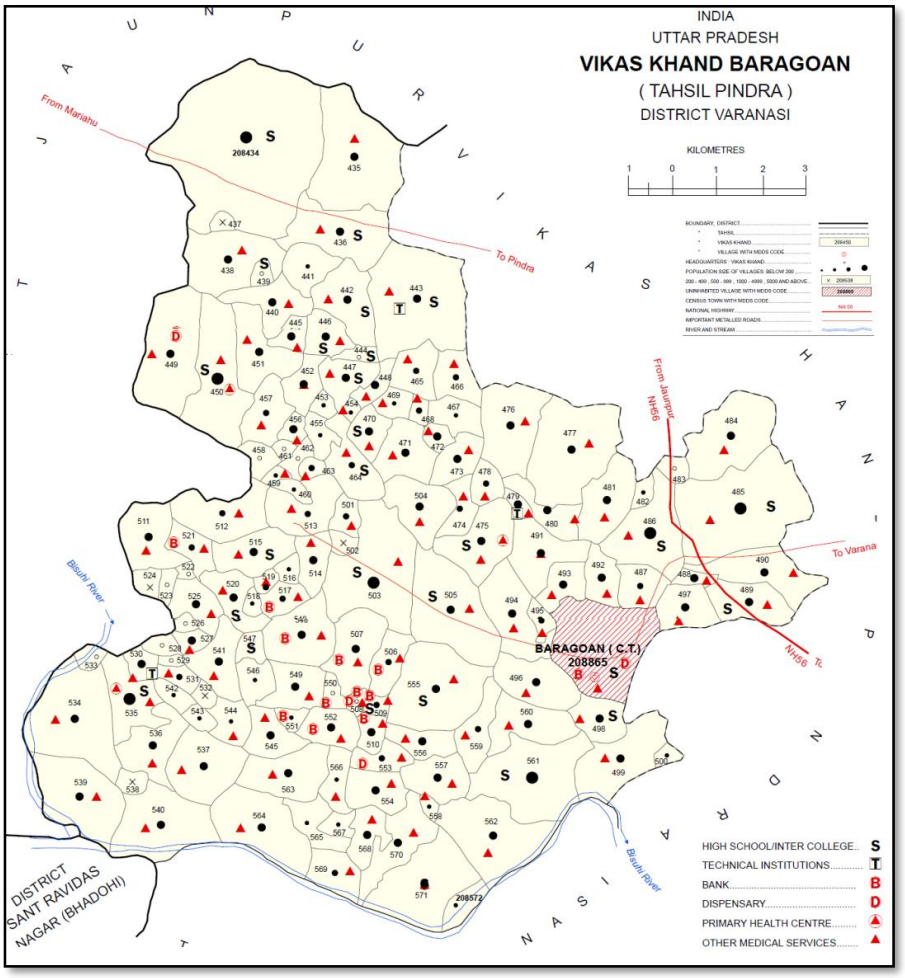

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 1 | Appi | - | 1 | 1 | - | - | - |
| 2 | Ashar | 1 | - | 1 | 1 | - | 1 |
| 3 | Aswari | 2 | 5 | 7 | 1 | 4 | 5 |
| 4 | Atarsuiya | - | - | - | - | 1 | 1 |
| 5 | Ayodhyapur | 2 | 1 | 3 | 2 | 2 | 4 |
| 6 | Babhaniyav | 3 | 2 | 5 | 1 | 2 | 3 |
| 7 | Badhaini Khurd | 1 | - | 1 | - | - | - |
| 8 | Badipur | - | 1 | 1 | - | - | - |
| 9 | Baherwa | - | 3 | 3 | - | 2 | 2 |
| 10 | Bairwan | 4 | 3 | 7 | 4 | 1 | 5 |
| 11 | Bansipur | - | 1 | 1 | - | - | - |
| 12 | Barhaini Kala | - | 1 | 1 | 1 | - | 1 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 13 | Barikhpur | 1 | - | 1 | - | - | - |
| 14 | Basant Ptti | - | - | - | 1 | 1 | 2 |
| 15 | Basantpur | - | 2 | 2 | - | - | - |
| 16 | Belauri | 2 | 3 | 5 | 2 | 2 | 4 |
| 17 | Bhadarasi | 1 | 2 | 3 | 2 | - | 2 |
| 18 | Bhanjanpur | - | - | - | - | 1 | 1 |
| 19 | Bharaon | 1 | - | 1 | 2 | - | 2 |
| 20 | Bhatshar | 1 | 3 | 4 | 2 | 1 | 3 |
| 21 | Bhawanipur | 2 | - | 2 | 2 | - | 2 |
| 22 | Bhikhampur | 1 | - | 1 | - | - | - |
| 23 | Bhikharipur | - | 3 | 3 | 2 | 3 | 5 |
| 24 | Bhikhipur | - | 1 | 1 | - | 1 | 1 |
| 25 | Bhimchandi | 1 | - | 1 | - | - | - |
| 26 | Bhojubeer | - | - | - | 1 | - | 1 |
| 27 | Birbalpur | - | 1 | 1 | - | 1 | 1 |
| 28 | Birsinghpur | 2 | - | 2 | 1 | - | 1 |
| 29 | Burapur | - | 1 | 1 | - | 1 | 1 |
| 30 | Chakarpanpur | 1 | 1 | 2 | - | 2 | 2 |
| 31 | Chandapur | 5 | - | 5 | 3 | 1 | 4 |
| 32 | Chaukhandi | 2 | - | 2 | 1 | 1 | 2 |
| 33 | Chintapur | 1 | - | 1 | - | - | - |
| 34 | Coraut | 3 | 4 | 7 | 2 | 3 | 5 |
| 35 | Daghariya | 2 | 1 | 3 | - | 1 | 1 |
| 36 | Darekhu | 3 | 3 | 6 | 3 | - | 3 |
| 37 | Dashrathpur | 1 | - | 1 | 2 | - | 2 |
| 38 | Dayapur | - | - | - | - | 1 | 1 |
| 39 | Deuara | - | 1 | 1 | - | - | - |
| 40 | Dhadhorpur | 1 | 3 | 4 | - | 3 | 3 |
| 41 | Dhanapur | - | - | - | - | 1 | 1 |
| 42 | Dhanpalpur | 1 | - | 1 | - | - | - |
| 43 | Dipapur | 1 | 2 | 3 | 1 | - | 1 |
| 44 | Gaharpur | - | 1 | 1 | - | 1 | 1 |
| 45 | Gajapur | 2 | - | 2 | 1 | - | 1 |
| 46 | Gajari | 2 | - | 2 | 1 | 3 | 4 |
| 47 | Ganeshpur | 3 | 2 | 5 | 2 | 1 | 3 |
| 48 | Gangpur | 1 | 1 | 2 | 1 | 1 | 2 |
| 49 | Gaur Madhukar Shahpur | 4 | 3 | 7 | 5 | 2 | 7 |
| 50 | Ghamahapur | - | - | - | - | 1 | 1 |
| 51 | Ghamhapur | - | - | - | 1 | - | 1 |
| 52 | Gobindpur | 1 | - | 1 | 1 | - | 1 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 53 | Gora | 2 | - | 2 | 1 | - | 1 |
| 54 | Gurudaspur | - | - | - | 1 | - | 1 |
| 55 | Hardattpur | - | 1 | 1 | - | 2 | 2 |
| 56 | Harpur | 3 | 1 | 4 | - | - | - |
| 57 | Harsos | 4 | 4 | 8 | 1 | 3 | 4 |
| 58 | Jaddupur | 2 | - | 2 | - | - | - |
| 59 | Jagardeopur | - | 1 | 1 | - | - | - |
| 60 | Jagatpur | 6 | 1 | 7 | 1 | 2 | 3 |
| 61 | Jakhini | 4 | 6 | 1- | 3 | 3 | 6 |
| 62 | Jamin Kaneri | - | 1 | 1 | - | 1 | 1 |
| 63 | Jansa | 3 | 2 | 5 | 1 | 2 | 3 |
| 64 | Jayapur | 5 | 1 | 6 | 2 | - | 2 |
| 65 | Kaneri | 1 | 1 | 2 | - | 4 | 4 |
| 66 | Kankpur | - | 1 | 1 | - | 1 | 1 |
| 67 | Kanthipur | 1 | - | 1 | 1 | - | 1 |
| 68 | Kapar Phorwa | 3 | 3 | 6 | 4 | - | 4 |
| 69 | Karia | - | 1 | 1 | - | - | - |
| 70 | Karnadadi | 2 | - | 2 | 1 | - | 1 |
| 71 | Kashipur | - | 6 | 6 | 1 | 4 | 5 |
| 72 | Kasipur | - | 1 | 1 | - | - | - |
| 73 | Khajuri | 1 | 1 | 2 | 1 | 1 | 2 |
| 74 | Khemaipur | - | 1 | 1 | - | 1 | 1 |
| 75 | Khewali | 1 | 1 | 2 | 2 | - | 2 |
| 76 | Khewasipur | - | 2 | 2 | - | 1 | 1 |
| 77 | Khochwa | 1 | 2 | 3 | - | 2 | 2 |
| 78 | Koilo Urf Kishun Duttpur | 1 | - | 1 | - | - | - |
| 79 | Kundriya | - | 3 | 3 | - | 3 | 3 |
| 80 | Kurauna | 1 | - | 1 | 1 | - | 1 |
| 81 | Kurauti | 1 | - | 1 | - | 1 | 1 |
| 82 | Lachapur | 1 | 2 | 3 | - | - | - |
| 83 | Lachhimanpur | 1 | - | 1 | - | - | - |
| 84 | Lallapur | - | 1 | 1 | - | 1 | 1 |
| 85 | Laskariya | - | - | - | - | 1 | 1 |
| 86 | Loharapur | 2 | - | 2 | 2 | - | 2 |
| 87 | Madhukar Shahpur | 1 | 1 | 2 | - | - | - |
| 88 | Mahgoan | 3 | 2 | 5 | 2 | - | 2 |
| 89 | Mahmdpur | 1 | - | 1 | 1 | - | 1 |
| 90 | Manikpur | 1 | - | 1 | - | - | - |
| 91 | Maniyari Pur(Darerhu) | 1 | - | 1 | 1 | - | 1 |
| 92 | Marui | 4 | 1 | 5 | 2 | 1 | 3 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 93 | Mehadiganj | 5 | 2 | 7 | 7 | 2 | 9 |
| 94 | Milki Chack | - | - | - | - | 1 | 1 |
| 95 | Mirawan | 1 | 1 | 2 | - | 1 | 1 |
| 96 | Moglabir | - | 2 | 2 | 2 | - | 2 |
| 97 | Mubarakpur | 2 | - | 2 | 1 | - | 1 |
| 98 | Mungawar | 1 | - | 1 | - | - | - |
| 99 | Nagepur | 4 | 2 | 6 | 4 | 1 | 5 |
| 100 | Naraicha | 2 | - | 2 | 2 | 1 | 3 |
| 101 | Narottmpur | 1 | 1 | 2 | - | - | - |
| 102 | Narsara | 1 | 2 | 3 | 1 | - | 1 |
| 103 | Nayapura | - | 2 | 2 | - | 1 | 1 |
| 104 | Pachai( No1 ) | 1 | - | 1 | - | - | - |
| 105 | Paidegaon | - | 1 | 1 | - | - | - |
| 106 | Paniyara | 1 | 1 | 2 | 2 | 1 | 3 |
| 107 | Parjanpur | 1 | 1 | 2 | 1 | 2 | 3 |
| 108 | Payagpur | 1 | - | 1 | - | - | - |
| 109 | Pilori | 1 | 1 | 2 | - | 2 | 2 |
| 110 | Pratappur | 2 | 4 | 6 | 2 | 4 | 6 |
| 111 | Rajpur | - | 1 | 1 | - | 1 | 1 |
| 112 | Rakhauna | 3 | 1 | 4 | 2 | 1 | 3 |
| 113 | Ramaipur | 1 | 1 | 2 | 1 | - | 1 |
| 114 | Rampur | 1 | - | 1 | 1 | - | 1 |
| 115 | Ramraypur | 1 | - | 1 | - | 1 | 1 |
| 116 | Ramsinghpur | 1 | 1 | 2 | - | - | - |
| 117 | Ranibazar | 1 | - | 1 | 1 | 1 | 2 |
| 118 | Rupapur | 1 | - | 1 | 1 | - | 1 |
| 119 | Sahansapur | 2 | 1 | 3 | 2 | 3 | 5 |
| 120 | Sahawabad | 3 | 1 | 4 | 1 | 1 | 2 |
| 121 | Sajoi | 1 | 5 | 6 | - | 2 | 2 |
| 122 | Saraimohan | 2 | - | 2 | 1 | - | 1 |
| 123 | Sarauni | 1 | - | 1 | 2 | 1 | 3 |
| 124 | Serwanpur | 1 | - | 1 | 2 | - | 2 |
| 125 | Sheorampur | - | 1 | 1 | - | - | - |
| 126 | Shihorwa | 2 | 1 | 3 | - | 1 | 1 |
| 127 | Singhai | 2 | - | 2 | 1 | - | 1 |
| 128 | Sinhorwa | 1 | 1 | 2 | - | - | - |
| 129 | Sirsa | - | - | - | - | 1 | 1 |
| 130 | Suichak | - | 1 | 1 | 1 | 1 | 2 |
| 131 | Tilanga | - | 1 | 1 | - | 1 | 1 |
| 132 | Todarpur | 3 | - | 3 | - | 1 | 1 |
| 133 | Tohaphapur | - | - | - | - | 1 | 1 |
| **Total** | | **167** | **140** | **307** | **116** | **112** | **228** |

## Cancer incidence cases and mortality cases: Baragaon, Varanasi district (2020-2021)

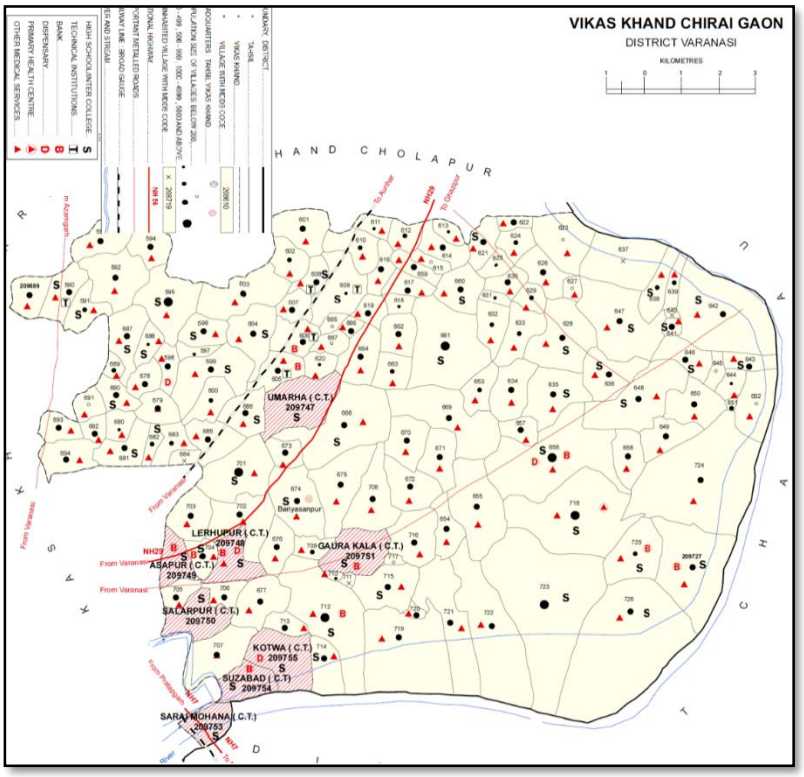



| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 1 | Ahirani | 1 | - | 1 | - | - | - |
| 2 | Akorha | 3 | - | 3 | - | 1 | 1 |
| 3 | Aneai | 11 | 2 | 13 | 4 | - | 4 |
| 4 | Ashwari | - | - | - | 1 | - | 1 |
| 5 | Bachaura | 1 | 1 | 2 | 1 | 1 | 2 |
| 6 | Bahutara | - | 1 | 1 | 1 | - | 1 |
| 7 | Balrampur | 5 | - | 5 | 5 | 1 | 6 |
| 8 | Balua | 2 | 2 | 4 | 2 | 1 | 3 |
| 9 | Barai | 3 | 2 | 5 | 3 | 2 | 5 |
| 10 | Barhi Newada | 5 | 2 | 7 | 2 | 2 | 4 |
| 11 | Barhikala | 1 | 1 | 2 | - | 1 | 1 |
| 12 | Barzi | 1 | 1 | 2 | 1 | - | 1 |
| 13 | Basni | 4 | 9 | 13 | 3 | 4 | 7 |
| 14 | Bauliya | 1 | - | 1 | 1 | - | 1 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 15 | Belawa | - | 1 | 1 | 1 | 1 | 2 |
| 16 | Bharthara | 1 | 2 | 3 | - | - | - |
| 17 | Bharthipur | 1 | - | 1 | 1 | - | 1 |
| 18 | Bhawanipur | 1 | - | 1 | - | - | - |
| 19 | Bhiti | 1 | - | 1 | - | - | - |
| 20 | Bikapur | - | 1 | 1 | 1 | 1 | 2 |
| 21 | Biraon | 1 | 2 | 3 | 1 | 1 | 2 |
| 22 | Chak Chamran | 1 | - | 1 | - | - | - |
| 23 | Chak Kharawan | 1 | 1 | 2 | - | 1 | 1 |
| 24 | Chak Machhiya | - | - | - | 1 | 1 | 2 |
| 25 | Changwar | 2 | - | 2 | 1 | 1 | 2 |
| 26 | Chaturpur | 1 | - | 1 | 1 | - | 1 |
| 27 | Cherapur | 1 | 1 | 2 | 1 | 1 | 2 |
| 28 | Chilbila | 1 | 2 | 3 | 1 | 1 | 2 |
| 29 | Dallipur | - | 1 | 1 | 1 | 1 | 2 |
| 30 | Dandupur | 1 | 2 | 3 | 1 | 2 | 3 |
| 31 | Devchandpur | 1 | - | 1 | 1 | - | 1 |
| 32 | Dhanrajaipur | - | - | - | 1 | - | 1 |
| 33 | Dhora | - | 2 | 2 | - | - | - |
| 34 | Dhoraipur | - | - | - | 1 | - | 1 |
| 35 | Eshipur | 1 | 2 | 3 | 2 | 1 | 3 |
| 36 | Fatehpur | 1 | 2 | 3 | 2 | 2 | 4 |
| 37 | Gajapur | 1 | 1 | 2 | 1 | - | 1 |
| 38 | Gang Khurd | 1 | - | 1 | - | - | - |
| 39 | Gangkala | 1 | - | 1 | 1 | 2 | 3 |
| 40 | Ghamhapur | 1 | 1 | 2 | 1 | 1 | 2 |
| 41 | Hamirapur | 1 | - | 1 | - | - | - |
| 42 | Harinathpur | 4 | 2 | 6 | 4 | 2 | 6 |
| 43 | Hasanpur | 3 | 5 | 8 | 2 | 2 | 4 |
| 44 | Itha | 1 | 2 | 3 | - | 1 | 1 |
| 45 | Kaithauli | 1 | - | 1 | 1 | 2 | 3 |
| 46 | Kaniyar | 2 | - | 2 | 5 | 1 | 6 |
| 47 | Karampur | 2 | 2 | 4 | 1 | 1 | 2 |
| 48 | Kathiraon | 6 | 5 | 11 | 3 | 1 | 4 |
| 49 | Kavirampur | - | 2 | 2 | 1 | - | 1 |
| 50 | Khararіya Taluka Birawn | 1 | - | 1 | 1 | - | 1 |
| 51 | Kharawan | - | 2 | 2 | 1 | 3 | 4 |
| 52 | Khariya Khas | 1 | 4 | 5 | 1 | 1 | 2 |
| 53 | Khataura | 3 | 1 | 4 | 2 | 1 | 3 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 54 | Koailar | 1 | 1 | 2 | 2 | - | 2 |
| 55 | Kodai | 1 | 2 | 3 | 1 | 1 | 2 |
| 56 | Kumbhapur | 3 | - | 3 | 1 | 1 | 2 |
| 57 | Kuri | 4 | 4 | 8 | 3 | 4 | 7 |
| 58 | Kuru | 2 | 2 | 4 | 1 | 3 | 4 |
| 59 | Kushmara | - | 2 | 2 | 1 | - | 1 |
| 60 | Kuwar | 3 | - | 3 | 3 | 3 | 6 |
| 61 | Lachhi Rampur | - | 2 | 2 | - | - | - |
| 62 | Lakhmipur | - | 1 | 1 | - | - | - |
| 63 | Madhumakhiya | 2 | - | 2 | 1 | - | 1 |
| 64 | Mahimapur | 2 | 1 | 3 | 1 | - | 1 |
| 65 | Mahuari | - | - | - | - | 1 | 1 |
| 66 | Majhgawan Kala | - | 1 | 1 | 1 | 1 | 2 |
| 67 | Malhath | 1 | 2 | 3 | 2 | - | 2 |
| 68 | Nakati | - | 1 | 1 | - | - | - |
| 69 | Newada | 1 | - | 1 | 2 | 1 | 3 |
| 70 | Nimaich | 1 | - | 1 | 1 | 1 | 2 |
| 71 | Nindanpur | 1 | - | 1 | - | 1 | 1 |
| 72 | Pachrasi | 1 | 2 | 3 | - | 1 | 1 |
| 73 | Paschimpur | 1 | - | 1 | - | - | - |
| 74 | Patere | - | 2 | 2 | - | 2 | 2 |
| 75 | Phulwariya | 1 | - | 1 | 1 | - | 1 |
| 76 | Pura Raghunathpur | 3 | - | 3 | 2 | 1 | 3 |
| 77 | Rampur | 2 | - | 2 | 1 | - | 1 |
| 78 | Rasulha | 1 | 1 | 2 | 1 | - | 1 |
| 79 | Ratanpur | 2 | 3 | 5 | 2 | 1 | 3 |
| 80 | Sagunha | - | 5 | 5 | - | 2 | 2 |
| 81 | Sarvipur | 2 | - | 2 | - | - | - |
| 82 | Shaipur | - | 1 | 1 | - | - | - |
| 83 | Sharawa | 1 | - | 1 | 2 | - | 2 |
| 84 | Shekhanipur | 1 | 2 | 3 | 1 | 1 | 2 |
| 85 | Siswa | 2 | 3 | 5 | 2 | - | 2 |
| 86 | Sonpurwa | 2 | 1 | 3 | 1 | 1 | 2 |
| 87 | Tari | 1 | - | 1 | - | 1 | 1 |
| 88 | Taridih | 1 | - | 1 | - | - | - |
| 89 | Tarsara | 1 | 1 | 2 | - | 1 | 1 |
| **Total** | | **127** | **107** | **234** | **100** | **73** | **173** |

## Cancer incidence cases and mortality cases: Chiraigaon, Varanasi district (2020-2021)

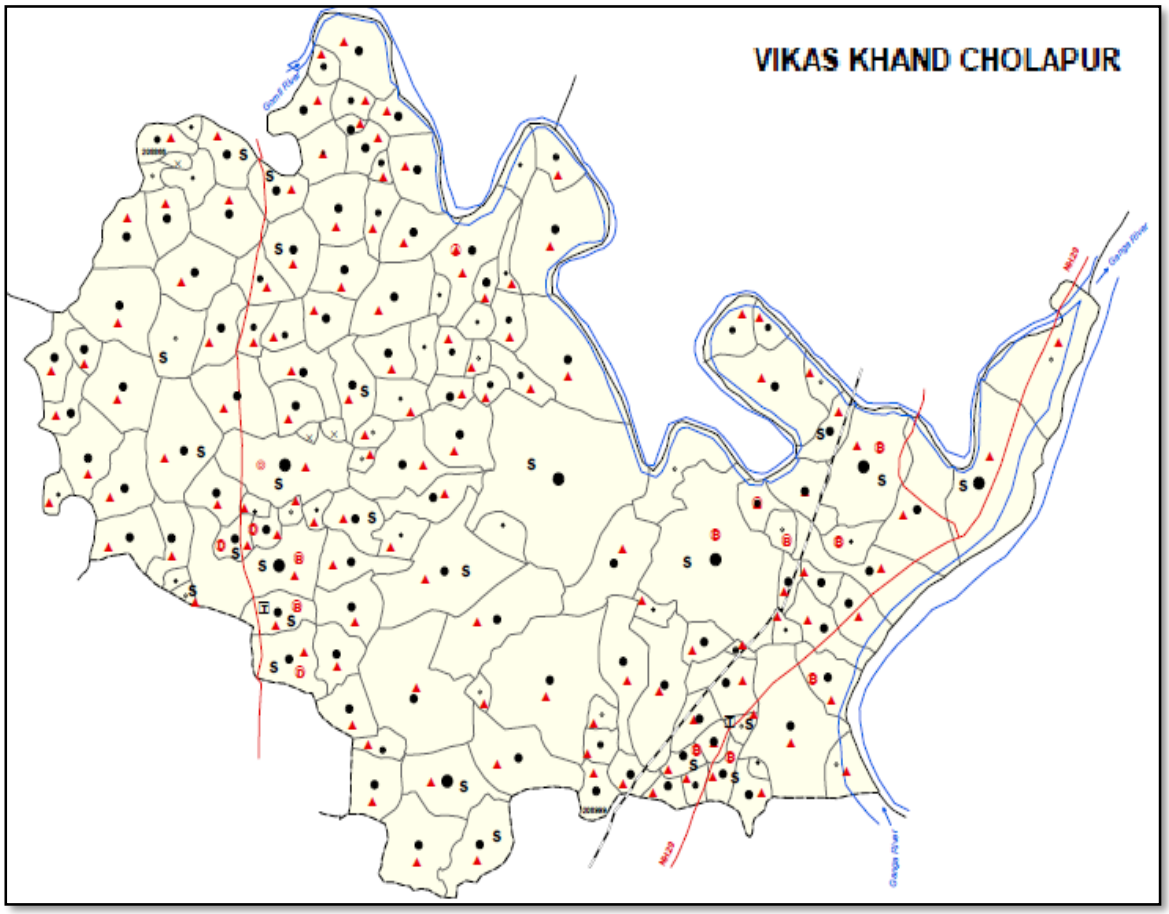



| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 1 | Airla | 1 | - | 1 | - | - | - |
| 2 | Allopur | 1 | - | 1 | 1 | - | 1 |
| 3 | Amar Patti | - | 2 | 2 | - | 2 | 2 |
| 4 | Amauli | 1 | - | 1 | 1 | - | 1 |
| 5 | Amwa | 1 | - | 1 | - | - | - |
| 6 | Babhanpura | 4 | 1 | 5 | 1 | 1 | 2 |
| 7 | Bankat | 1 | 1 | 2 | - | - | - |
| 8 | Barai | 3 | - | 3 | 2 | - | 2 |
| 9 | Bariyasanpur | 1 | 2 | 3 | 1 | 2 | 3 |
| 10 | Bhagwanpur | 1 | - | 1 | 1 | - | 1 |
| 11 | Bharthara Kala | 6 | 2 | 8 | 3 | 2 | 5 |
| 12 | Bhisori | - | - | - | - | 1 | 1 |
| 13 | Chadpur | - | 2 | 2 | - | 1 | 1 |
| 14 | Chamauli | 1 | 4 | 5 | 1 | 2 | 3 |
| 15 | Chhahi | 2 | 1 | 3 | - | - | - |
| 16 | Chhitauni | 1 | 1 | 2 | 1 | 1 | 2 |
| 17 | Chiraigaon | 1 | 2 | 3 | - | 2 | 2 |
| 18 | Chukha | 2 | 2 | 4 | - | 2 | 2 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 19 | Damodarpur | 1 | 1 | 2 | 1 | 2 | 3 |
| 20 | Daniyalpur | - | 2 | 2 | 1 | 1 | 2 |
| 21 | Dewariya | 1 | - | 1 | - | - | - |
| 22 | Dhananjaipur | - | - | - | - | 2 | 2 |
| 23 | Dhobahi | 1 | 1 | 2 | - | - | - |
| 24 | Dinapur | 6 | 2 | 8 | 3 | 2 | 5 |
| 25 | Dubkiya | 2 | 2 | 4 | 3 | 2 | 5 |
| 26 | Faridpur | - | - | - | - | 1 | 1 |
| 27 | Foolpur | 3 | 1 | 4 | 3 | 2 | 5 |
| 28 | Gangapur | - | 1 | 1 | - | - | - |
| 29 | Gobrha | - | - | - | - | 1 | 1 |
| 30 | Goithaha | 1 | - | 1 | 2 | - | 2 |
| 31 | Gokulpur | 1 | - | 1 | - | - | - |
| 32 | Goppur | 2 | 1 | 3 | 4 | 2 | 6 |
| 33 | Hasanpur | 1 | - | 1 | - | - | - |
| 34 | Hiramanpur | 3 | 2 | 5 | 1 | 1 | 2 |
| 35 | Jairampur | 3 | 2 | 5 | 1 | 1 | 2 |
| 36 | Jalhupur | 4 | 2 | 6 | 2 | 2 | 4 |
| 37 | Jogapur | - | 1 | 1 | - | - | - |
| 38 | Kadipur Khurd | 1 | 2 | 3 | - | 1 | 1 |
| 39 | Katesar Kala | 2 | 1 | 3 | 2 | 1 | 3 |
| 40 | Khajuhi | - | 1 | 1 | - | 1 | 1 |
| 41 | Khalispur | 1 | - | 1 | 1 | 1 | 2 |
| 42 | Khanpur | 1 | - | 1 | 1 | 1 | 2 |
| 43 | Kharagaipur | - | 1 | 1 | - | - | - |
| 44 | Khetalpur | 1 | - | 1 | - | 3 | 3 |
| 45 | Kodopur | - | - | - | 2 | - | 2 |
| 46 | Kukraha | - | 1 | 1 | - | - | - |
| 47 | Looth Kala | - | 1 | 1 | - | 1 | 1 |
| 48 | Marhni | - | - | - | 1 | - | 1 |
| 49 | Milkapur | - | 1 | 1 | - | 2 | 2 |
| 50 | Misripura | 2 | 1 | 3 | 1 | - | 1 |
| 51 | Mokalpur | - | 1 | 1 | 1 | - | 1 |
| 52 | Muridpur | 1 | - | 1 | 1 | - | 1 |
| 53 | Mustafabad | 3 | 3 | 6 | 2 | 3 | 5 |
| 54 | Narayanpur | 2 | 1 | 3 | 2 | 2 | 4 |
| 55 | Narpatpur | 1 | - | 1 | 2 | 1 | 3 |
| 56 | Newada | - | - | - | - | 2 | 2 |
| 57 | Pacharon | 2 | 1 | 3 | - | - | - |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 58 | Panihari | 1 | 3 | 4 | - | 2 | 2 |
| 59 | Parwatpur | 1 | - | 1 | 2 | - | 2 |
| 60 | Paterwa | 2 | 1 | 3 | 1 | 2 | 3 |
| 61 | Piyri | 3 | - | 3 | 2 | 2 | 4 |
| 62 | Prahladpur | - | - | - | 1 | - | 1 |
| 63 | Puran Patti | - | - | - | - | 1 | 1 |
| 64 | Raimala | - | 1 | 1 | - | 1 | 1 |
| 65 | Raipura | 1 | 1 | 2 | 1 | - | 1 |
| 66 | Rajapur | 1 | - | 1 | 1 | 1 | 2 |
| 67 | Rajnahiya | - | 1 | 1 | - | 2 | 2 |
| 68 | Ramchandipur | - | 3 | 3 | 1 | 1 | 2 |
| 69 | Rampur | - | - | - | - | 1 | 1 |
| 70 | Rasulgarh | 2 | - | 2 | 2 | 2 | 4 |
| 71 | Rustampur | 2 | - | 2 | 2 | 1 | 3 |
| 72 | Sandaha | 2 | 1 | 3 | 1 | - | 1 |
| 73 | Sapsaul | 3 | 1 | 4 | 1 | - | 1 |
| 74 | Saraiya I | 3 | 1 | 4 | 1 | 1 | 2 |
| 75 | Saraiya Ii | - | 1 | 1 | - | 1 | 1 |
| 76 | Sathawan | - | 1 | 1 | - | 1 | 1 |
| 77 | Shahpur | 1 | 1 | 2 | 1 | - | 1 |
| 78 | Shankarpur | 2 | - | 2 | - | 1 | 1 |
| 79 | Sheodas Uparwar | - | 3 | 3 | 1 | - | 1 |
| 80 | Shivbon | 3 | 2 | 5 | 3 | 1 | 4 |
| 81 | Singhpur | 2 | - | 2 | 2 | - | 2 |
| 82 | Sonbarsa | 3 | - | 3 | 4 | - | 4 |
| 83 | Srithi | 1 | 1 | 2 | 1 | - | 1 |
| 84 | Sultanpur | 1 | 1 | 2 | 1 | - | 1 |
| 85 | Taraya | - | 1 | 1 | - | 1 | 1 |
| 86 | Tilamapur | 4 | 2 | 6 | 2 | 3 | 5 |
| 87 | Tofapur | 3 | 1 | 4 | 3 | - | 3 |
| 88 | Ukthi | 1 | 2 | 3 | 1 | 2 | 3 |
| 89 | Vikapur | - | - | - | - | 1 | 1 |
| **Total** | | **115** | **82** | **197** | **84** | **82** | **166** |

## Cancer incidence cases and mortality cases: Cholapur, Varanasi district (2020-2021)

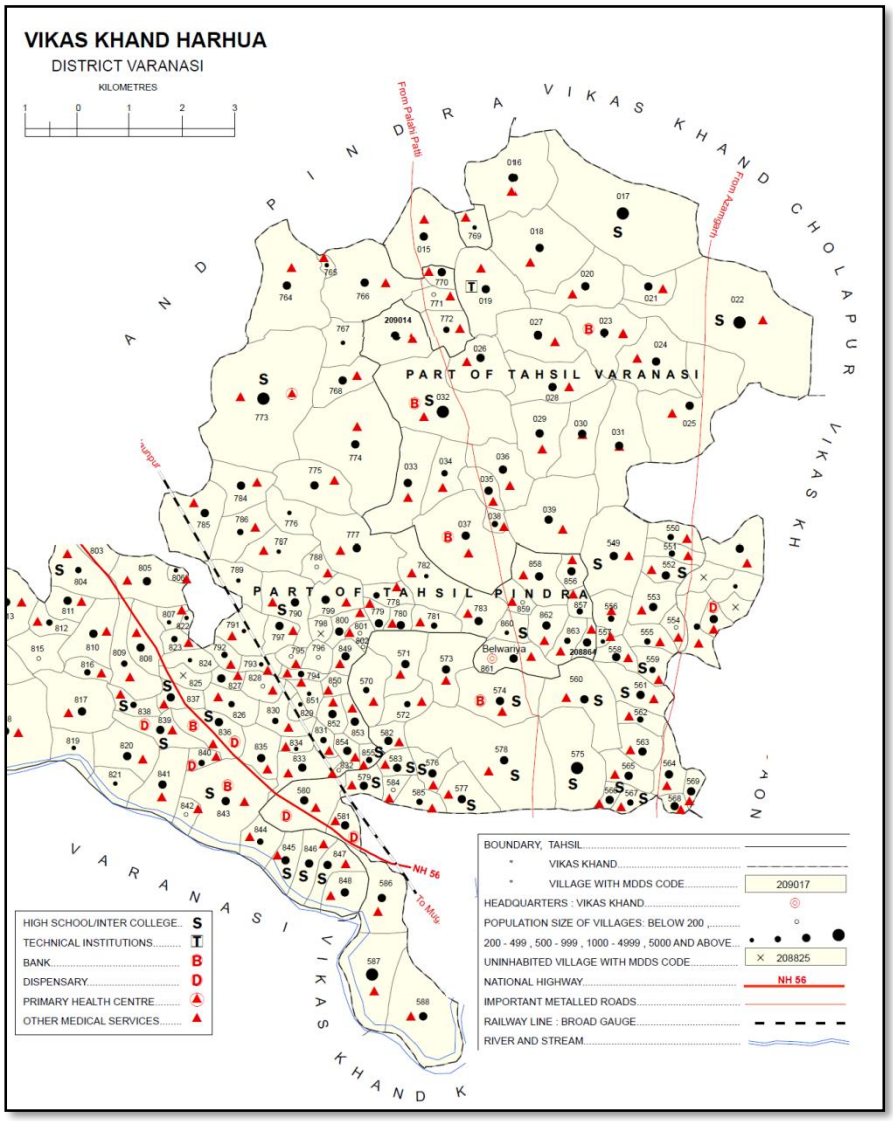



| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 1 | Ajawan | - | 2 | 2 | - | 2 | 2 |
| 2 | Azgara Khas | 5 | 1 | 6 | 5 | - | 5 |
| 3 | Babatpur | - | 2 | 2 | 1 | - | 1 |
| 4 | Bahadurpur | 2 | 2 | 4 | 1 | 2 | 3 |
| 5 | Ballampur | 1 | - | 1 | - | - | - |
| 6 | Bantari | - | 3 | 3 | 1 | 1 | 2 |
| 7 | Barsara | 1 | - | 1 | - | - | - |
| 8 | Barthara Khurd | 2 | 1 | 3 | 2 | - | 2 |
| 9 | Barthauli | - | - | - | - | 1 | 1 |
| 10 | Baviyaon | 1 | 1 | 2 | - | 1 | 1 |
| 11 | Bela | 4 | 1 | 5 | 1 | - | 1 |
| 12 | Benipur Kala | - | 2 | 2 | - | 2 | 2 |
| 13 | Bhabhiyar | 2 | 1 | 3 | - | 1 | 1 |
| 14 | Bhadwan | 2 | - | 2 | 1 | - | 1 |
| 15 | Bhaghutipur | - | 1 | 1 | - | - | - |
| 16 | Bhagwanpur Khurd | - | 1 | 1 | 1 | - | 1 |
| 17 | Bhandaha Kala | 1 | 1 | 2 | - | - | - |
| 18 | Bharatpur | 1 | 4 | 5 | - | 3 | 3 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 19 | Bhawanipur | - | 1 | 1 | - | 2 | 2 |
| 20 | Bhidur | - | - | - | 1 | - | 1 |
| 21 | Chahi | 1 | 1 | 2 | 1 | - | 1 |
| 22 | Chak Dagrha | - | - | - | - | 1 | 1 |
| 23 | Chandrawati | 2 | 2 | 4 | 1 | 1 | 2 |
| 24 | Chaubepur Kala | 2 | 2 | 4 | 3 | - | 3 |
| 25 | Chaubepur Khurd | - | 2 | 2 | - | 1 | 1 |
| 26 | Chhitampur | 2 | - | 2 | - | - | - |
| 27 | Cholapur | 3 | 2 | 5 | 1 | 1 | 2 |
| 28 | Darberupur | 1 | - | 1 | 1 | - | 1 |
| 29 | Daudpur | - | - | - | 1 | - | 1 |
| 30 | Deipur | 1 | - | 1 | - | - | - |
| 31 | Demrupur | - | - | - | 1 | - | 1 |
| 32 | Deorai | - | - | - | - | 1 | 1 |
| 33 | Devnandpur | 1 | - | 1 | - | 1 | 1 |
| 34 | Dhakhawa | 1 | 1 | 2 | 1 | - | 1 |
| 35 | Dharampur | 1 | - | 1 | - | - | - |
| 36 | Dharsauna | 4 | - | 4 | 2 | 2 | 4 |
| 37 | Dhaurhara | 6 | 1 | 7 | 2 | 1 | 3 |
| 38 | Duduhan | - | 1 | 1 | 1 | 1 | 2 |
| 39 | Dulhanpur | 1 | - | 1 | 1 | - | 1 |
| 40 | Garsara | 4 | 1 | 5 | 4 | - | 4 |
| 41 | Garthauli | 5 | - | 5 | 2 | 1 | 3 |
| 42 | Gaurapurwar | 3 | 1 | 4 | 2 | 1 | 3 |
| 43 | Gola | 1 | - | 1 | 1 | - | 1 |
| 44 | Goppur(Second) | 1 | - | 1 | - | - | - |
| 45 | Gosaipur | - | 1 | 1 | - | 1 | 1 |
| 46 | Gosaipur Pathkhuli | - | 1 | 1 | - | 1 | 1 |
| 47 | Hajipur | 1 | 1 | 2 | 1 | 1 | 2 |
| 48 | Handiyadih | 1 | - | 1 | 1 | - | 1 |
| 49 | Haridasipur | - | - | - | - | 1 | 1 |
| 50 | Hathiyar Kala | - | 2 | 2 | - | 2 | 2 |
| 51 | Jagdeeshpur | 3 | - | 3 | 1 | - | 1 |
| 52 | Jariyari | 1 | - | 1 | - | 1 | 1 |
| 53 | Kadipur | - | 1 | 1 | 2 | - | 2 |
| 54 | Kaithi | 3 | - | 3 | 2 | - | 2 |
| 55 | Kaithor | - | - | - | - | 1 | 1 |
| 56 | Kapsa | 2 | 2 | 4 | 2 | 2 | 4 |
| 57 | Karma | 1 | - | 1 | - | - | - |
| 58 | Katari | 1 | 1 | 2 | 2 | 1 | 3 |
| 59 | Kauwapur | - | 1 | 1 | 1 | - | 1 |
| 60 | Khardaha | 1 | 2 | 3 | 1 | 3 | 4 |
| 61 | Khutha | - | 1 | 1 | - | 1 | 1 |
| 62 | Koilo | - | - | - | - | 1 | 1 |
| 63 | Kursiyan | - | - | - | 1 | - | 1 |
| 64 | Lakhanpur | 1 | 2 | 3 | - | 1 | 1 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 65 | Lakhi | 1 | - | 1 | - | - | - |
| 66 | Lalmankot | 1 | - | 1 | 2 | - | 2 |
| 67 | Laskarpur | - | 3 | 3 | - | 2 | 2 |
| 68 | Latauni | 4 | 1 | 5 | 1 | 2 | 3 |
| 69 | Magrahua | 1 | 1 | 2 | 1 | 1 | 2 |
| 70 | Mahada | 3 | 1 | 4 | 5 | 1 | 6 |
| 71 | Maheshpur | - | 1 | 1 | - | - | - |
| 72 | Mahmoodpur | - | - | - | 1 | - | 1 |
| 73 | Mangolepur | - | 1 | 1 | - | 1 | 1 |
| 74 | Mawaiya | 3 | - | 3 | 2 | - | 2 |
| 75 | Mohandas Pur | - | - | - | 1 | - | 1 |
| 76 | Molanapur | - | 1 | 1 | - | - | - |
| 77 | Munari | 4 | 4 | 8 | 6 | 5 | 11 |
| 78 | Mureri | 1 | - | 1 | - | - | - |
| 79 | Murli | - | 1 | 1 | - | 1 | 1 |
| 80 | Niyardiha | 2 | 5 | 7 | 1 | 3 | 4 |
| 81 | Odar | 1 | - | 1 | - | - | - |
| 82 | Paharpur | 5 | 2 | 7 | - | - | - |
| 83 | Paragdih | - | 1 | 1 | - | 1 | 1 |
| 84 | Parana Patti | 1 | - | 1 | 2 | - | 2 |
| 85 | Paranapur | 1 | - | 1 | 1 | - | 1 |
| 86 | Pipri | - | 1 | 1 | - | - | - |
| 87 | Puraraiji | 1 | - | 1 | 1 | - | 1 |
| 88 | Rajwari | 4 | 1 | 5 | 2 | 2 | 4 |
| 89 | Ramdatha | 1 | - | 1 | 1 | - | 1 |
| 90 | Rampur | 3 | - | 3 | 3 | - | 3 |
| 91 | Rasara | 1 | - | 1 | 1 | - | 1 |
| 92 | Rasulpur | - | 1 | 1 | 1 | - | 1 |
| 93 | Rauna Kala | - | 1 | 1 | 1 | - | 1 |
| 94 | Rauna Khurd | 1 | 1 | 2 | 2 | 1 | 3 |
| 95 | Roopchandpur | 1 | 1 | 2 | 1 | - | 1 |
| 96 | Saraiya | 2 | - | 2 | 1 | - | 1 |
| 97 | Shahdeeh | - | 1 | 1 | 1 | 1 | 2 |
| 98 | Singhpur | 2 | 1 | 3 | 2 | 3 | 5 |
| 99 | Srikanthpur | 1 | 1 | 2 | 1 | 1 | 2 |
| 100 | Suari | 2 | 2 | 4 | 1 | - | 1 |
| 101 | Sugulpur | 1 | 2 | 3 | 1 | 2 | 3 |
| 102 | Sultanipur | - | 1 | 1 | - | 1 | 1 |
| 103 | Tala | 2 | - | 2 | 2 | 1 | 3 |
| 104 | Taraon | 1 | - | 1 | - | - | - |
| 105 | Tari | 1 | 2 | 3 | - | 1 | 1 |
| 106 | Tekari | 1 | 1 | 2 | - | - | - |
| 107 | Tekuri | 3 | 2 | 5 | 2 | 2 | 4 |
| 108 | Tilmapur | 1 | - | 1 | - | - | - |
| 109 | Tisaura | 1 | - | 1 | - | 1 | 1 |
| **Total** | | **137** | **95** | **232** | **102** | **79** | **181** |

## Cancer incidence cases and mortality cases: Harhua, Varanasi district (2020-2021)



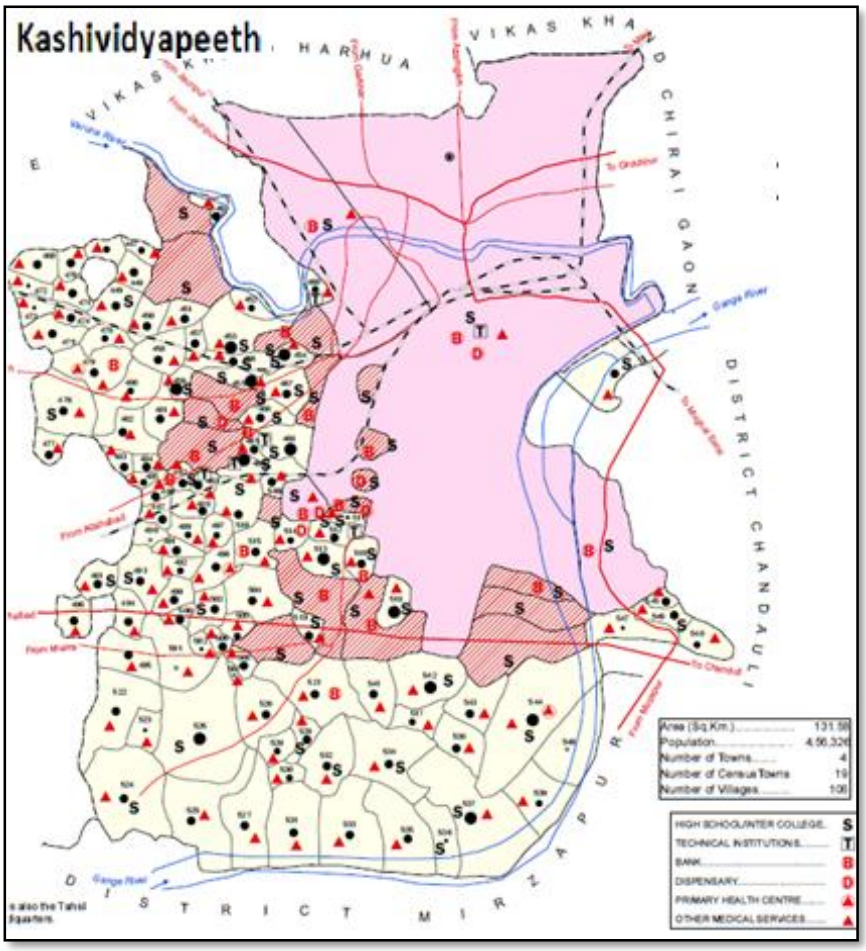

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 1 | Adampur | 2 | 1 | 3 | - | - | - |
| 2 | Ahiran | 1 | - | 1 | 1 | - | 1 |
| 3 | Ahirauli | 1 | - | 1 | - | - | - |
| 4 | Ahmadpur | 1 | - | 1 | 1 | - | 1 |
| 5 | Aitha | 2 | - | 2 | - | - | - |
| 6 | Ashapur | 1 | - | 1 | 2 | - | 2 |
| 7 | Ateshua | - | 4 | 4 | - | 3 | 3 |
| 8 | Aura | 1 | - | 1 | 2 | - | 2 |
| 9 | Ausanpur | 1 | - | 1 | 1 | - | 1 |
| 10 | Ayar | 3 | - | 3 | 1 | - | 1 |
| 11 | Bahlolpur | - | 1 | 1 | - | - | - |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 12 | Bajhiya | - | - | - | 1 | - | 1 |
| 13 | Balua | - | - | - | 1 | - | 1 |
| 14 | Barwapur | 1 | - | 1 | - | - | - |
| 15 | Basdevpur | 1 | - | 1 | - | - | - |
| 16 | Bedi | 1 | - | 1 | - | - | - |
| 17 | Belwariya | 2 | 1 | 3 | - | 1 | 1 |
| 18 | Benipur Khurd | - | - | - | 1 | - | 1 |
| 19 | Berwa | - | 1 | 1 | - | 2 | 2 |
| 20 | Bhagwanpur | - | 1 | 1 | - | - | - |
| 21 | Bhatauli | 1 | 1 | 2 | 1 | 1 | 2 |
| 22 | Bhatpurwa Kala | - | 1 | 1 | - | 1 | 1 |
| 23 | Bhawanipur | 1 | - | 1 | - | 1 | 1 |
| 24 | Bhelkha | 3 | 2 | 5 | 2 | 2 | 4 |
| 25 | Bhobhi | - | 1 | 1 | - | - | - |
| 26 | Bhohar | 2 | 1 | 3 | 2 | 2 | 4 |
| 27 | Bhopapur | 4 | 1 | 5 | 2 | - | 2 |
| 28 | Bira Patti | 2 | 2 | 4 | 1 | 2 | 3 |
| 29 | Chakka | 1 | 1 | 2 | 2 | 3 | 5 |
| 30 | Chamawn | - | 3 | 3 | - | 2 | 2 |
| 31 | Chandapur | 1 | 1 | 2 | - | 1 | 1 |
| 32 | Chauka | 2 | - | 2 | 1 | - | 1 |
| 33 | Chhatripur | 1 | - | 1 | 2 | - | 2 |
| 34 | Chukhepur | 2 | 4 | 6 | 2 | 2 | 4 |
| 35 | Dandupur | 3 | - | 3 | 1 | 1 | 2 |
| 36 | Daniyalpur | 3 | 1 | 4 | - | 1 | 1 |
| 37 | Dasepur | 2 | 3 | 5 | - | 2 | 2 |
| 38 | Dasnipur | 1 | 1 | 2 | 1 | 1 | 2 |
| 39 | Devonathpur | 1 | 1 | 2 | - | - | - |
| 40 | Dhaneshri | - | 1 | 1 | 1 | 1 | 2 |
| 41 | Dharmalpur | - | - | - | - | 2 | 2 |
| 42 | Dihwa | - | - | - | 1 | - | 1 |
| 43 | Duniyapur | - | 2 | 2 | - | 2 | 2 |
| 44 | Ekala | - | 1 | 1 | - | 1 | 1 |
| 45 | Gahani | 2 | 2 | 4 | - | 1 | 1 |
| 46 | Ganeshpur | 2 | - | 2 | 2 | - | 2 |
| 47 | Garhwa | - | - | - | 1 | - | 1 |
| 48 | Gaura | - | - | - | 1 | 1 | 2 |
| 49 | Ghamhapur | 1 | - | 1 | 1 | - | 1 |
| 50 | Gosaipur | 1 | 2 | 3 | 1 | 3 | 4 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 51 | Gosaipur Mohaon | 4 | 5 | 9 | 3 | 2 | 5 |
| 52 | Gosaipur Pathkhuli | - | 1 | 1 | - | - | - |
| 53 | Gurwat | - | 1 | 1 | 1 | - | 1 |
| 54 | Har Ballabhpur | 2 | - | 2 | 1 | - | 1 |
| 55 | Harhua | 8 | 3 | 11 | 5 | 2 | 7 |
| 56 | Hasimpur | 1 | 1 | 2 | 1 | 2 | 3 |
| 57 | Hatiya | 3 | 1 | 4 | - | - | - |
| 58 | Holapur | 1 | 3 | 4 | 2 | 3 | 5 |
| 59 | Inderwar | - | 2 | 2 | 1 | 1 | 2 |
| 60 | Jamunipur | - | - | - | 1 | - | 1 |
| 61 | Kakalpur | 1 | 2 | 3 | 2 | 1 | 3 |
| 62 | Kanudih | - | 2 | 2 | - | 2 | 2 |
| 63 | Karoma | 1 | 2 | 3 | - | 1 | 1 |
| 64 | Khan Patti | - | - | - | 1 | - | 1 |
| 65 | Kohasi | 3 | - | 3 | 2 | - | 2 |
| 66 | Koirajpur | 2 | 1 | 3 | 1 | 1 | 2 |
| 67 | Koiran | - | 1 | 1 | - | - | - |
| 68 | Kurauli | - | 1 | 1 | - | 1 | 1 |
| 69 | Lalpur | 7 | 3 | 10 | 2 | 3 | 5 |
| 70 | Lamhi | 4 | 6 | 10 | 3 | 2 | 5 |
| 71 | Lorhan | 1 | - | 1 | 1 | 1 | 2 |
| 72 | Luchchepur | 1 | - | 1 | 1 | - | 1 |
| 73 | Madhopur | 1 | - | 1 | 1 | - | 1 |
| 74 | Mahadepur | 1 | 2 | 3 | 1 | 1 | 2 |
| 75 | Mahadevpur | 1 | - | 1 | 2 | - | 2 |
| 76 | Majhmitia | 1 | - | 1 | - | - | - |
| 77 | Marhawa | 1 | - | 1 | 1 | - | 1 |
| 78 | Mohanpur | 1 | - | 1 | - | - | - |
| 79 | Murdaha | 4 | 3 | 7 | 1 | 2 | 3 |
| 80 | Narayanpur | 1 | - | 1 | 1 | - | 1 |
| 81 | Nonauti | - | 2 | 2 | - | 1 | 1 |
| 82 | Palahi Patti | 4 | 2 | 6 | 3 | - | 3 |
| 83 | Pali Shambhupur | 1 | - | 1 | 1 | 1 | 2 |
| 84 | Parmanandpur | 2 | 1 | 3 | 1 | - | 1 |
| 85 | Phakirpur | - | - | - | - | 1 | 1 |
| 86 | Pisaur | 2 | 1 | 3 | 3 | - | 3 |
| 87 | Puari Kala | 3 | - | 3 | 2 | - | 2 |
| 88 | Raipura | 1 | - | 1 | - | - | - |
| 89 | Raisi Patti | 1 | - | 1 | 2 | - | 2 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 90 | Rajapur | - | 1 | 1 | - | - | - |
| 91 | Ramchandarpur | 1 | 1 | 2 | - | - | - |
| 92 | Ramdat Pur | - | 1 | 1 | 2 | 1 | 3 |
| 93 | Ramgaon | 1 | 2 | 3 | 1 | - | 1 |
| 94 | Ramsinghpur | 2 | - | 2 | - | - | - |
| 95 | Rashulpur | - | 2 | 2 | - | 1 | 1 |
| 96 | Sabhaipur | - | 1 | 1 | 2 | - | 2 |
| 97 | Saee | - | - | - | - | 1 | 1 |
| 98 | Sarai Kazi | 4 | - | 4 | 1 | 1 | 2 |
| 99 | Saraiya | - | - | - | 2 | - | 2 |
| 100 | Sarayswami | - | - | - | 1 | - | 1 |
| 101 | Sarswan | 2 | 2 | 4 | 3 | 1 | 4 |
| 102 | Sehmalpur | - | 2 | 2 | - | 2 | 2 |
| 103 | Shahbuddinpur | - | 1 | 1 | - | - | - |
| 104 | Shivrampur | - | 2 | 2 | - | 2 | 2 |
| 105 | Singhapur | - | - | - | 1 | - | 1 |
| 106 | Sonakdih | - | - | - | - | 1 | 1 |
| 107 | Soyepur | 2 | 1 | 3 | - | 2 | 2 |
| 108 | Sulemapur | - | - | - | 1 | - | 1 |
| 109 | Surawan | - | 1 | 1 | - | 1 | 1 |
| 110 | Sutwalpur | 1 | - | 1 | 2 | - | 2 |
| 111 | Tewar | - | 2 | 2 | 1 | 1 | 2 |
| 112 | Udaypur | 4 | 1 | 5 | - | - | - |
| 113 | Undi | 3 | - | 3 | - | - | - |
| **Total** | | **138** | **107** | **245** | **100** | **81** | **181** |

## Cancer incidence cases and mortality cases: Kashividyapeeth, Varanasi district (2020-2021)

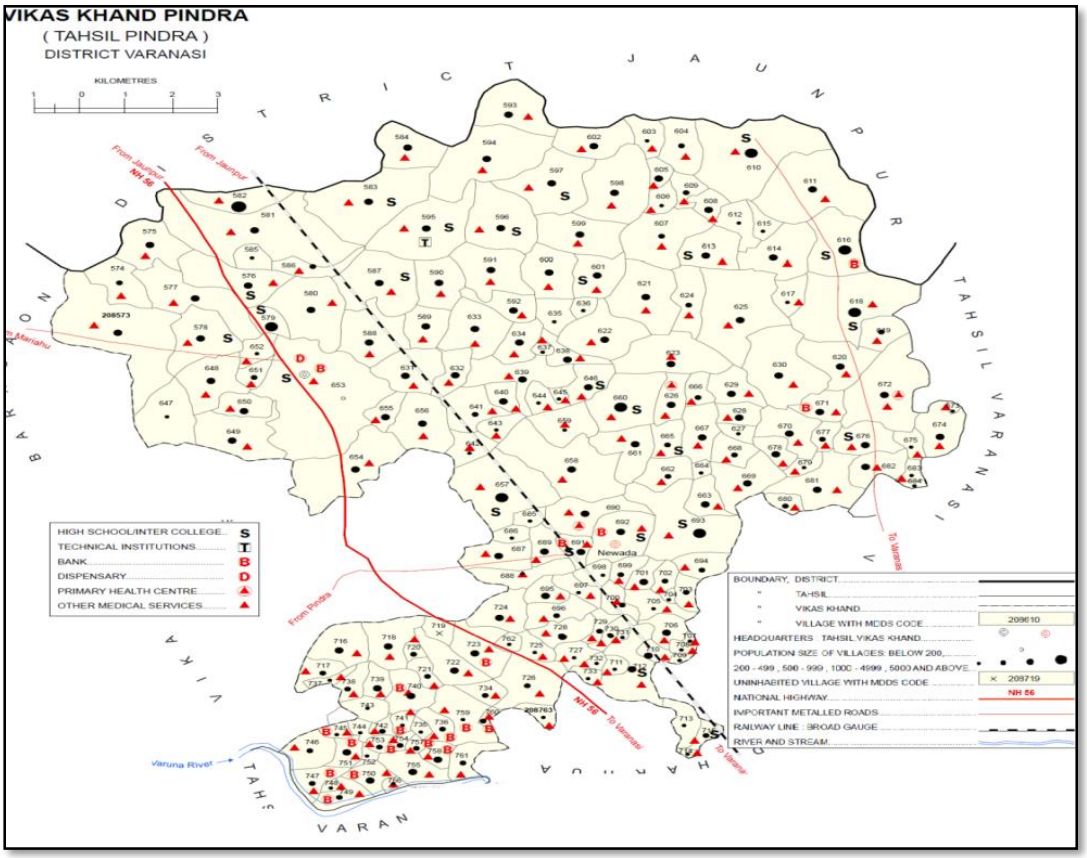



| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 1 | Akhari | 3 | 1 | 4 | 1 | 1 | 2 |
| 2 | Akhileshpur | 4 | 2 | 6 | 3 | 1 | 4 |
| 3 | Alauddinpur | 1 | - | 1 | 2 | - | 2 |
| 4 | Anantpur | 1 | 1 | 2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

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

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 54 | Manrauli | 6 | 5 | 11 | 5 | 4 | 9 |
| 55 | Marawan | - | 2 | 2 | 1 | 2 | 3 |
| 56 | Mishirpur | 2 | - | 2 | - | - | - |
| 57 | Muradev | 1 | 1 | 2 | 1 | - | 1 |
| 58 | Naipur Kala | 2 | 1 | 3 | - | - | - |
| 59 | Naipura Khurd | - | 1 | 1 | - | 1 | 1 |
| 60 | Nakain | 1 | 2 | 3 | 1 | 2 | 3 |
| 61 | Narottampur Kala | - | 1 | 1 | - | - | - |
| 62 | Narur | 1 | - | 1 | 1 | 2 | 3 |
| 63 | Nasiripur | 3 | 1 | 4 | - | 3 | 3 |
| 64 | Nathupur | 2 | 3 | 5 | 2 | 2 | 4 |
| 65 | Nuawn | - | 1 | 1 | - | 2 | 2 |
| 66 | Pahari | 5 | 2 | 7 | 2 | 4 | 6 |
| 67 | Parmanandpur | 2 | 1 | 3 | 1 | - | 1 |
| 68 | Ramna | 8 | 2 | 1- | 6 | 3 | 9 |
| 69 | Ramshipur | - | 1 | 1 | - | - | - |
| 70 | Sadalpur | 1 | 1 | 2 | - | - | - |
| 71 | Sarai Dangari Kala | - | 2 | 2 | - | 3 | 3 |
| 72 | Sarhari | - | 1 | 1 | - | 1 | 1 |
| 73 | Savhat | 2 | - | 2 | - | - | - |
| 74 | sujabad | 3 | - | 3 | 3 | 1 | 4 |
| 75 | Sultanpur | 4 | 4 | 8 | 3 | 2 | 5 |
| 76 | Surhi | 2 | - | 2 | 1 | - | 1 |
| 77 | Tarapur | 1 | - | 1 | - | - | - |
| 78 | Tariya | - | 1 | 1 | - | - | - |
| 79 | Tikari | 4 | 2 | 6 | 1 | 1 | 2 |
| 80 | Uchgoan | 2 | 1 | 3 | 1 | 1 | 2 |
| **Total** | | **158** | **138** | **296** | **109** | **90** | **199** |

## Cancer incidence cases and mortality cases: Pindra, Varanasi district (2020-2021)



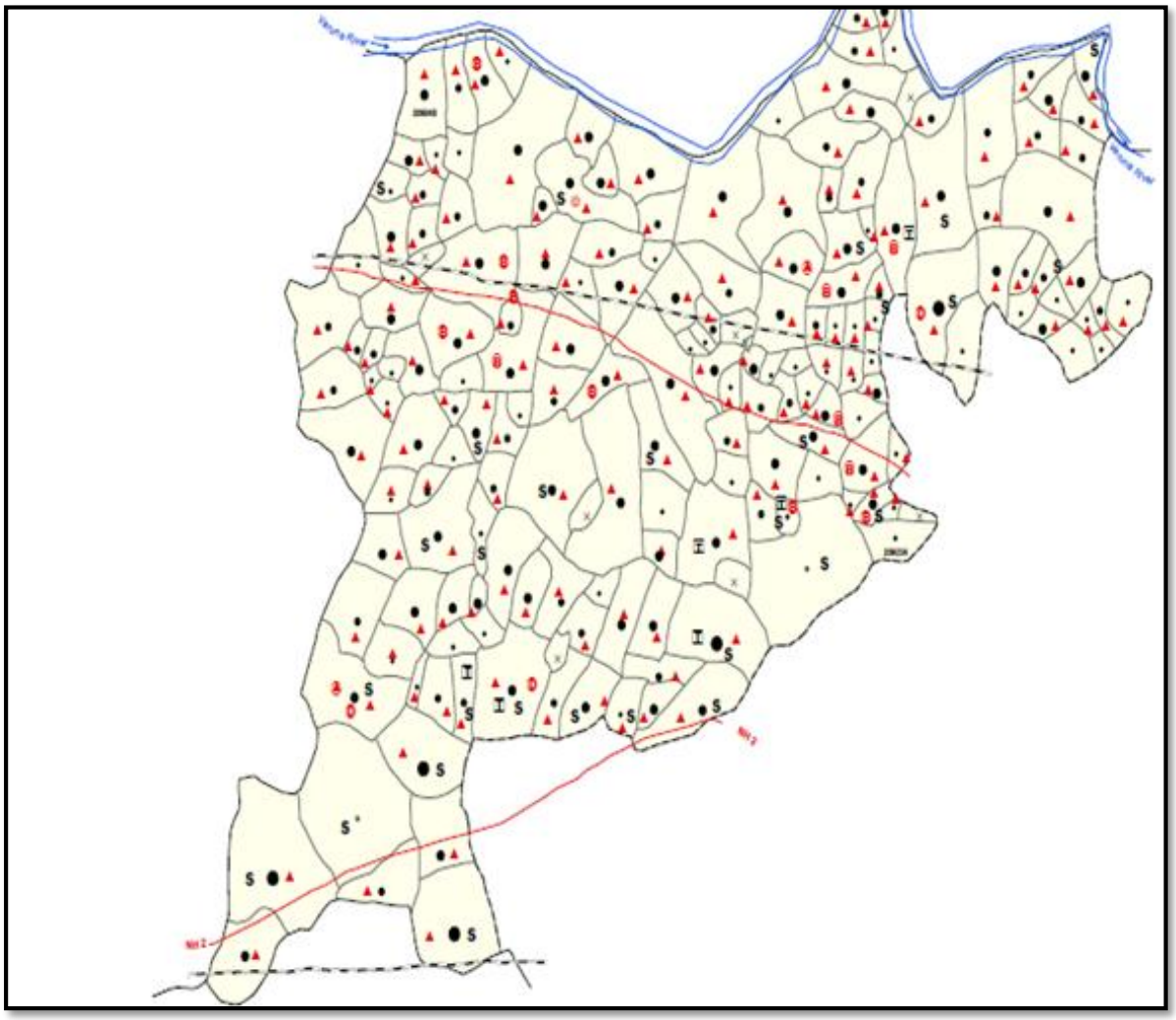

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 1 | Aharak | 3 | 1 | 4 | 1 | 1 | 2 |
| 2 | Amaut | 3 | 2 | 5 | 1 | 1 | 2 |
| 3 | Aswalpur | - | 1 | 1 | - | - | - |
| 4 | Auraon | 3 | 2 | 5 | 1 | 2 | 3 |
| 5 | Babatpur | 1 | 3 | 4 | 2 | 2 | 4 |
| 6 | Badhauna | 2 | 1 | 3 | 1 | 1 | 2 |
| 7 | Baikunthpur | 2 | 1 | 3 | 1 | - | 1 |
| 8 | Balipur | 1 | - | 1 | 1 | - | 1 |
| 9 | Baraipur | 2 | - | 2 | 1 | - | 1 |
| 10 | Barwan | 2 | - | 2 | 3 | - | 3 |
| 11 | Basantpura | - | 3 | 3 | - | 3 | 3 |
| 12 | Belari | - | 1 | 1 | - | 2 | 2 |
| 13 | Bhadewli | - | 2 | 2 | - | 2 | 2 |
| 14 | Bhagwatipur | 1 | 1 | 2 | 1 | 1 | 2 |
| 15 | Bhai | 1 | 1 | 2 | 1 | 1 | 2 |
| 16 | Bhanpur | 2 | 2 | 4 | 2 | - | 2 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 17 | Bhatpurwan | 1 | 1 | 2 | 1 | - | 1 |
| 18 | Binda | 2 | 1 | 3 | 2 | 1 | 3 |
| 19 | Burwan | 1 | - | 1 | - | - | - |
| 20 | Chak Dulla | - | 1 | 1 | - | - | - |
| 21 | Chakarma | 1 | 2 | 3 | - | 1 | 1 |
| 22 | Chamru | 1 | - | 1 | - | - | - |
| 23 | Charo | 2 | 1 | 3 | 1 | - | 1 |
| 24 | Chhataon | - | 2 | 2 | 2 | 1 | 3 |
| 25 | Chintamanpur | - | 1 | 1 | 1 | 1 | 2 |
| 26 | Chitaura | 1 | 1 | 2 | 1 | 2 | 3 |
| 27 | Chiurapur | 1 | 1 | 2 | - | - | - |
| 28 | Dallipur | - | 1 | 1 | - | 1 | 1 |
| 29 | Deorai | 2 | 2 | 4 | - | - | - |
| 30 | Devji | - | 2 | 2 | - | - | - |
| 31 | Dharsauna | 1 | 2 | 3 | - | 2 | 2 |
| 32 | Dindaspur | 2 | - | 2 | - | - | - |
| 33 | Dithiya | - | - | - | 1 | - | 1 |
| 34 | Dudilpur | - | 1 | 1 | - | - | - |
| 35 | Fatehpur | 3 | 1 | 4 | 4 | 2 | 6 |
| 36 | Gadar | 3 | - | 3 | 2 | - | 2 |
| 37 | Gajendra | - | - | - | 1 | 1 | 2 |
| 38 | Gajokhar | - | - | - | 1 | - | 1 |
| 39 | Gangapur | 1 | 1 | 2 | - | 1 | 1 |
| 40 | Ganzari | - | - | - | 1 | - | 1 |
| 41 | Garkhara | 5 | - | 5 | - | 2 | 2 |
| 42 | Garthma | 3 | 1 | 4 | 2 | - | 2 |
| 43 | Ghamhapur | 1 | - | 1 | - | - | - |
| 44 | Ghoghali | 2 | - | 2 | 1 | - | 1 |
| 45 | Gori | - | - | - | 2 | - | 2 |
| 46 | Harishankarpur | - | - | - | 1 | - | 1 |
| 47 | Hathiwar | - | 1 | 1 | - | - | - |
| 48 | Hiramanpur | 1 | 2 | 3 | 3 | 1 | 4 |
| 49 | Inderkhapur | 2 | 1 | 3 | - | - | - |
| 50 | Jagdishpur | 2 | 4 | 6 | - | 4 | 4 |
| 51 | Jalalpur | - | 2 | 2 | 1 | 1 | 2 |
| 52 | Jamalpur | - | 1 | 1 | - | - | - |
| 53 | Jamapur | - | - | - | - | 3 | 3 |
| 54 | Jathi | 3 | 4 | 7 | 1 | 5 | 6 |
| 55 | Jhanjhaur | 1 | 3 | 4 | 1 | 2 | 3 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 56 | Kachhiya | - | 4 | 4 | 1 | 4 | 5 |
| 57 | Kaharaka | 1 | - | 1 | - | - | - |
| 58 | Kanakpur | 2 | - | 2 | 2 | 1 | 3 |
| 59 | Karemua | 3 | 1 | 4 | 1 | 1 | 2 |
| 60 | Karkhiyaon | 2 | 3 | 5 | 1 | 1 | 2 |
| 61 | Karmi | 1 | 1 | 2 | 1 | 1 | 2 |
| 62 | Kashipur | 1 | 1 | 2 | 3 | - | 3 |
| 63 | Katharawan | 1 | - | 1 | 1 | - | 1 |
| 64 | Kathauna | 3 | - | 3 | - | - | - |
| 65 | Khalishpur | 1 | 3 | 4 | 1 | - | 1 |
| 66 | Kiratpur | 2 | - | 2 | 1 | - | 1 |
| 67 | Koilipur Khurd | - | 2 | 2 | - | 1 | 1 |
| 68 | Korra | 1 | - | 1 | 1 | - | 1 |
| 69 | Lallapur | 1 | - | 1 | - | - | - |
| 70 | Lokapur | 1 | 1 | 2 | - | - | - |
| 71 | Mahgaon | 4 | 1 | 5 | 3 | 1 | 4 |
| 72 | Majhbhitia(Majhmitiya) | 1 | - | 1 | - | - | - |
| 73 | Mangari | 2 | 2 | 4 | 1 | 1 | 2 |
| 74 | Mani | 1 | - | 1 | - | - | - |
| 75 | Maruee | 3 | 4 | 7 | 3 | 5 | 8 |
| 76 | Murdi | 1 | - | 1 | - | 2 | 2 |
| 77 | Nadoy | 1 | - | 1 | 3 | - | 3 |
| 78 | Nagapur | - | 1 | 1 | - | - | - |
| 79 | Namapur | - | 1 | 1 | - | 1 | 1 |
| 80 | Nandapur | 1 | - | 1 | 1 | - | 1 |
| 81 | Nehiya | 1 | 2 | 3 | 2 | 1 | 3 |
| 82 | Newada | 2 | 2 | 4 | - | 2 | 2 |
| 83 | Nihalapur | 1 | - | 1 | 1 | 1 | 2 |
| 84 | Odar | 3 | 1 | 4 | - | 2 | 2 |
| 85 | Padari | - | - | - | 1 | - | 1 |
| 86 | Parsaha | 1 | - | 1 | - | - | - |
| 87 | Parshra | 1 | 1 | 2 | - | - | - |
| 88 | Patirajpur | 1 | 1 | 2 | 1 | - | 1 |
| 89 | Phatehpur Katauna | - | - | - | 1 | 1 | 2 |
| 90 | Phoolpur | 3 | 1 | 4 | 5 | 1 | 6 |
| 91 | Pindara | 4 | 4 | 8 | 2 | 3 | 5 |
| 92 | Pindrai | 4 | 2 | 6 | - | 3 | 3 |
| 93 | Prasadpur | 1 | - | 1 | 1 | - | 1 |
| 94 | Raghurampur | - | 1 | 1 | - | 1 | 1 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 95 | Rajpur | 6 | 2 | 8 | 3 | 1 | 4 |
| 96 | Ramai Patti | - | 4 | 4 | 1 | 4 | 5 |
| 97 | Ramapur | 1 | - | 1 | 1 | - | 1 |
| 98 | Ramnagar | 3 | 1 | 4 | 3 | - | 3 |
| 99 | Rampur | 2 | 3 | 5 | 3 | 3 | 6 |
| 100 | Rasulpur | 2 | 1 | 3 | 2 | 1 | 3 |
| 101 | Ratanpur | 2 | - | 2 | - | - | - |
| 102 | Roh | 1 | - | 1 | 1 | - | 1 |
| 103 | Sahapur | 1 | 1 | 2 | - | - | - |
| 104 | Salwahanpur | - | - | - | - | 1 | 1 |
| 105 | Samogara | 2 | 2 | 4 | 1 | 1 | 2 |
| 106 | Sarai Takki | 1 | - | 1 | - | - | - |
| 107 | Saray | 1 | - | 1 | 2 | - | 2 |
| 108 | Saray Shekhlad | 2 | 4 | 6 | 2 | 1 | 3 |
| 109 | Sarhad | - | 1 | 1 | 1 | - | 1 |
| 110 | Shahpur | - | - | - | 1 | 1 | 2 |
| 111 | Shehmalpur | 1 | 1 | 2 | 1 | 2 | 3 |
| 112 | Shivpur | - | - | - | - | 1 | 1 |
| 113 | Sindhora | 9 | 5 | 14 | 4 | 2 | 6 |
| 114 | Sujanipur | 1 | - | 1 | 1 | - | 1 |
| 115 | Surahee | 1 | 2 | 3 | - | 2 | 2 |
| 116 | Telari Urf Narayanpur | 1 | - | 1 | - | - | - |
| 117 | Thana | 1 | - | 1 | - | - | - |
| 118 | Thari | 2 | 1 | 3 | 2 | - | 2 |
| 119 | Tikari Kala | 1 | - | 1 | 2 | 1 | 3 |
| 120 | Tikari Khurd | 1 | - | 1 | 3 | - | 3 |
| 121 | Tiwaripur | - | 2 | 2 | - | 1 | 1 |
| 122 | Udhopur | 2 | - | 2 | - | - | - |
| 123 | Udpur | - | 1 | 1 | 1 | 2 | 3 |
| 124 | Urban | - | 1 | 1 | - | - | - |
| 125 | Vikrampur | 1 | 1 | 2 | 1 | - | 1 |
| 126 | Virdawalpur | - | 1 | 1 | - | - | - |
| 127 | War | - | 1 | 1 | - | - | - |
| 128 | Rajpur | 6 | 2 | 8 | 3 | 1 | 4 |
| **Total** | | **166** | **136** | **302** | **120** | **105** | **225** |

## Cancer incidence cases and mortality cases: Sewapuri, Varanasi district (2020-2021)



| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 1 | Adampur | 1 | 1 | 2 | 2 | 1 | 3 |
| 2 | Amini | 4 | 2 | 6 | 3 | 1 | 4 |
| 3 | Arjunpur | 1 | - | 1 | - | - | - |
| 4 | Babua Pur | - | - | - | 1 | - | 1 |
| 5 | Bahra | 1 | 3 | 4 | 1 | 3 | 4 |
| 6 | Baijal Pur | - | 1 | 1 | - | 1 | 1 |
| 7 | Banauli | - | 1 | 1 | 1 | 2 | 3 |
| 8 | Bankat | 3 | 4 | 7 | 1 | 1 | 2 |
| 9 | Bara Dih | 2 | 1 | 3 | - | - | - |
| 10 | Baraura | 2 | - | 2 | 1 | - | 1 |
| 11 | Barema | 3 | 1 | 4 | 3 | - | 3 |
| 12 | Barki | 3 | 2 | 5 | 1 | 2 | 3 |
| 13 | Barsata | - | 1 | 1 | - | - | - |
| 14 | Bazar Kalika | - | 1 | 1 | - | - | - |
| 15 | Belwa | 1 | - | 1 | - | - | - |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 16 | Beshupur | 2 | - | 2 | 2 | 1 | 3 |
| 17 | Bhgautipur | 4 | - | 4 | 2 | - | 2 |
| 18 | Bhikhampur | 4 | 4 | 8 | 5 | 2 | 7 |
| 19 | Bhitkuri | 1 | - | 1 | 1 | 1 | 2 |
| 20 | Bhorkala | 1 | 1 | 2 | - | - | - |
| 21 | Bhuilaee | - | 2 | 2 | - | 1 | 1 |
| 22 | Chak Chelawa | - | - | - | - | 1 | 1 |
| 23 | Chaklola | - | 1 | 1 | - | 1 | 1 |
| 24 | Chhateri Manapur | 2 | 2 | 4 | - | 1 | 1 |
| 25 | Chitarsenpur | 1 | 2 | 3 | 1 | 3 | 4 |
| 26 | Dabethuwa | 2 | 2 | 4 | 1 | 1 | 2 |
| 27 | Dalpattipur | - | 1 | 1 | - | - | - |
| 28 | Daulatiya | 3 | 2 | 5 | 1 | - | 1 |
| 29 | Dayapur | 1 | - | 1 | 1 | - | 1 |
| 30 | Deipur | 2 | 1 | 3 | 2 | 1 | 3 |
| 31 | Dilavalpur | - | 2 | 2 | - | 2 | 2 |
| 32 | Domaila | 2 | - | 2 | 3 | 2 | 5 |
| 33 | Domanpur | - | 2 | 2 | - | 2 | 2 |
| 34 | Gaddopur | - | 1 | 1 | - | 1 | 1 |
| 35 | Gajepur | 1 | 1 | 2 | 1 | 1 | 2 |
| 36 | Ghosila | 1 | 1 | 2 | - | 1 | 1 |
| 37 | Gogawa | - | 1 | 1 | - | 1 | 1 |
| 38 | Gorai | 2 | - | 2 | 1 | - | 1 |
| 39 | Gosai Pur | 1 | - | 1 | - | - | - |
| 40 | Guria | 1 | 1 | 2 | 1 | - | 1 |
| 41 | Harbhampur | - | - | - | 3 | 1 | 4 |
| 42 | Harihar Pur | - | - | - | 1 | - | 1 |
| 43 | Hathi | 3 | 5 | 8 | 4 | 1 | 5 |
| 44 | Hirapur | - | 1 | 1 | - | 1 | 1 |
| 45 | Isharwar | 1 | 1 | 2 | 1 | 1 | 2 |
| 46 | Jaga Patti | 1 | - | 1 | - | - | - |
| 47 | Jagdishpur | 1 | - | 1 | - | - | - |
| 48 | Jogapur | 3 | - | 3 | 4 | - | 4 |
| 49 | Jogiyapur | 1 | - | 1 | 1 | - | 1 |
| 50 | Kapsethi | 3 | - | 3 | 1 | 1 | 2 |
| 51 | Kardhana | - | 2 | 2 | - | 2 | 2 |
| 52 | Katwaru Pur | - | 1 | 1 | - | - | - |
| 53 | Khalispur | - | 1 | 1 | 1 | 1 | 2 |
| 54 | Khamauna | - | 1 | 1 | 1 | - | 1 |
| 55 | Khandakh | 2 | 1 | 3 | 1 | - | 1 |
| 56 | Kharag Rampur | 1 | 1 | 2 | - | - | - |
| 57 | Khargu Pur | 1 | 4 | 5 | 1 | 2 | 3 |
| 58 | Khemapur | 3 | 1 | 4 | 3 | 3 | 6 |
| 59 | Khillupura | 1 | - | 1 | 1 | - | 1 |
| 60 | Kurauana Urf Rameshwar | 1 | - | 1 | 1 | - | 1 |
| 61 | Kutubpur | - | 2 | 2 | - | 1 | 1 |

| Sr. No. | Village name | Incidence | | | Mortality | | |
|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total |
| 62 | Lachhipur | - | 1 | 1 | - | 1 | 1 |
| 63 | Lahiya | - | - | - | - | 1 | 1 |
| 64 | Lakhansenpur | 2 | - | 2 | - | - | - |
| 65 | Lohara Dih | 1 | 1 | 2 | 2 | - | 2 |
| 66 | Mahagipur | 1 | - | 1 | 1 | - | 1 |
| 67 | Mahrajpur | 1 | 2 | 3 | - | 3 | 3 |
| 68 | Majhiyarpur | 1 | - | 1 | 1 | 1 | 2 |
| 69 | Maniyari Pur | 2 | 1 | 3 | 1 | - | 1 |
| 70 | Mariya | - | 2 | 2 | 1 | 1 | 2 |
| 71 | Matuka | - | 2 | 2 | - | 1 | 1 |
| 72 | Milki Chak | 1 | - | 1 | 1 | - | 1 |
| 73 | Mokarwan | 1 | - | 1 | - | - | - |
| 74 | Newada | - | - | - | 1 | 1 | 2 |
| 75 | Newada Khas | - | 1 | 1 | - | - | - |
| 76 | Newriya | - | - | - | - | 1 | 1 |
| 77 | Nimani | 1 | - | 1 | 1 | - | 1 |
| 78 | Nohanipur | - | - | - | 1 | 2 | 3 |
| 79 | Odarha | 2 | - | 2 | 1 | - | 1 |
| 80 | Pachwar | 3 | - | 3 | - | - | - |
| 81 | Parsi Pur | 2 | - | 2 | 2 | - | 2 |
| 82 | Patre Chak | - | 1 | 1 | - | - | - |
| 83 | Pura Bariyar | 1 | 1 | 2 | 1 | 1 | 2 |
| 84 | Pura Majhola | - | 1 | 1 | - | 1 | 1 |
| 85 | Purananda | 2 | - | 2 | 1 | - | 1 |
| 86 | Purandarpur | - | 1 | 1 | - | 1 | 1 |
| 87 | Pure | 4 | - | 4 | 2 | 3 | 5 |
| 88 | Raghunathpur | 2 | - | 2 | 2 | - | 2 |
| 89 | Raishipur Sattanpur | 2 | 2 | 4 | 1 | 2 | 3 |
| 90 | Rakhi Sattanpur | - | 1 | 1 | - | 1 | 1 |
| 91 | Ramdih | 1 | - | 1 | 1 | 1 | 2 |
| 92 | Rampur Mutllike Shattanpur | 1 | - | 1 | - | - | - |
| 93 | Rampur Raisipur | 2 | 3 | 5 | 3 | 3 | 6 |
| 94 | Sarang Pur | 1 | 1 | 2 | 1 | 1 | 2 |
| 95 | Sato | - | 1 | 1 | - | - | - |
| 96 | Sattanpur | 1 | 1 | 2 | 1 | 1 | 2 |
| 97 | Sikhari | 1 | - | 1 | 2 | - | 2 |
| 98 | Sirhira | 2 | - | 2 | 2 | - | 2 |
| 99 | Sonbarsa | 2 | 3 | 5 | 1 | 4 | 5 |
| 100 | Tamachabad | - | 1 | 1 | - | 1 | 1 |
| 101 | Tara Pur | - | 2 | 2 | - | 2 | 2 |
| 102 | Tatehara | - | 1 | 1 | - | 1 | 1 |
| 103 | Tendui | 4 | 1 | 5 | 3 | 2 | 5 |
| 104 | Thatra | 7 | 5 | 12 | 6 | 5 | 11 |
| 105 | Uparwar | 1 | 1 | 2 | - | 3 | 3 |
| 106 | Varani | - | 1 | 1 | - | 1 | 1 |
| 107 | Vihana | 2 | 2 | 4 | 3 | - | 3 |
| **Total** | | **128** | **106** | **234** | **103** | **94** | **197** |

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Dr. Revathy Nair K, *Assistant Professor*
Dr. Vasundhara Singh, *Assistant Professor*

**Uro Oncology**
Dr Sashank Saini, *Associate Professor*
Dr Jayant Kumar, *Assistant Professor*

**Nursing Department**
Dr. K. Meena, *Nursing Superintendent*
Dr. Rajni Sharma, *Assistant Nursing Superintendent*
Mr. Raman P, *Assistant Nursing Superintendent*
Mr. Ram Nivas, *OT Manager in-charge*

**IT Department**
Mr. Dhirendra Yadav, *IT Coordinator*
Mr. Chaitanya K, *Computer Programmer*
Mr. Divyanshu Keshari, *Scientific Officer*

**Accounts**
Mr. Asheesh Saraswat, *Deputy Controller of Accounts*

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

**Clinical Research Secretariat**
Mr. Bhavesh P Bandekar, *Scientific Officer (Clinical Research Coordinator)*

**Biomedical Engineering**
Mr. Lucky Tyagi, *Scientific Officer*
Mr. Abhinav Yadav, *Scientific Officer*

**CSSD**
Mr. Rajesh Gajanan Phulare, *Incharge C.S.S.D*

**Pharmacy**
Mr. B Senthil Kumar, *Officer In Charge*

**Medical Social Workers**
Mr. Nizamuddin Khan, *Medical Social Worker*
Ms. Firdousa Jahan, *Medical Social Worker*
Mrs. Kalyanee Verma, *Medical Social Worker*

**Security**
Mr. Suneel Kumar Singh, *Deputy Chief Security Officer*

**Kevat**
Mr. Abhishek Singh, *Scientific Assistant*
Mr. Rajan Pandey, *Scientific Assistant*
Mr. Prakash Kumar, *Scientific Assistant*

# 24. Annexure

## Publications using Varanasi PBCR data

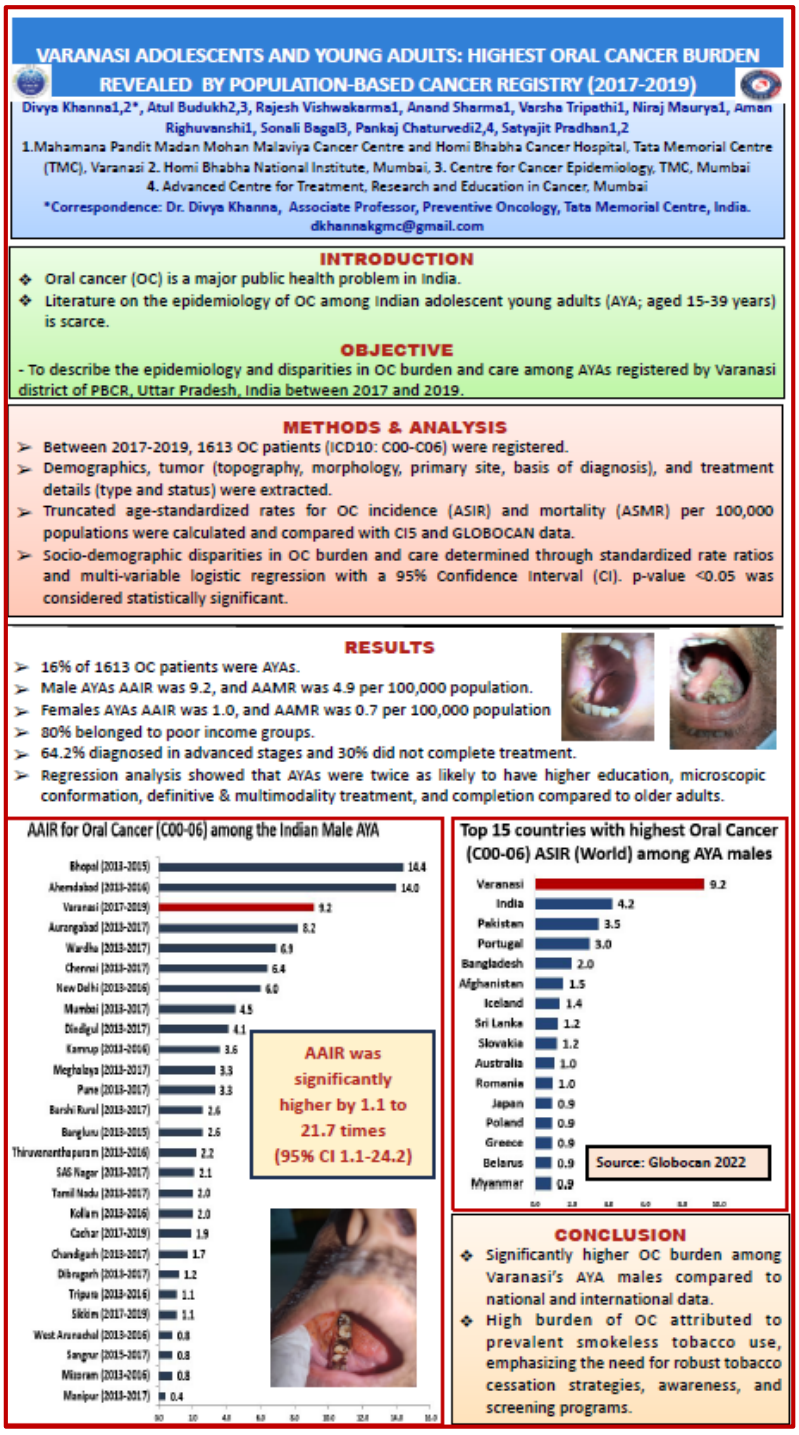

1. Mathur P, Sathishkumar K, Das P, Santhappan S, Sankarapillai J, Nath A, Vishwakarma MB, Swaminathan R, Pitchaimuthu S, Deo SV, Manoharan N. "Cancer Incidence and Mortality Across 43 Cancer Registries in India." *JAMA Network Open*. 2025 Aug 1;8(8):e2527805-.
2. Khanna, D., Vishwakarma, R., Sharma, A.N., Budukh, A., Verma, R.K., Riguvanshi, A., Mahmood, F., Chaturvedi, P. and Pradhan, S., et al. "Epidemiology of adolescent and young adult cancer and associated disparities in cancer pattern and care in India: findings from Varanasi's population-based cancer registry, 2017–2019". *Cancer Causes & Control,* 2025, pp.1-12.
3. Sawant P, Saoba S, Kadam P, Gupta D, Ponnada AK, Khanna D, Perera S, Tshomo U, Ervik M, Mery L, Bray F. "The Nirmiti application: An innovative tool for extending CanReg5 analyses to cancer mortality and paediatric cancer." *International Journal of Cancer.* 2025 Jul 1;157(1):161-9.
4. Khanna D, Sharma P, Budukh A, Vishwakarma R, Sharma AN, Bagal S, Tripathi V, Maurya VK, Chaturvedi P, Pradhan S. "Rural-urban disparity in cancer burden and care: findings from an Indian cancer registry." *BMC cancer*. 2024 Mar 6;24(1):308.
5. Bagal S, Budukh A, Thakur JS, Dora T, Qayyumi B, Khanna D, Fernandes D, Chakravarti P, Singh R, Patil S, Dikshit R. "Head and neck cancer burden in India: an analysis from published data of 37 population-based cancer registries." *ecancermedicalscience*. 2023 Sep 21;17:1603.
6. Khanna, D., Budukh, A., Sharma, P., Shruti, T., Vishwakarma, R., Sharma, A.N., Bagal, S., Vikraman, S.M., Vaza, Y., Anand, A. and Chaturvedi, P., 2023. "Role of verbal autopsy in cancer registration: a mixed-methods study from the population-based cancer registry of Northern India." *Tropical Medicine & International Health,* 28(8), pp.629-640.
7. Budukh AM, Bagal S, Thakur JS, Khanna D, Sancheti S, Banavali S. "Pediatric cancer burden in different regions of India: analysis of published data from 33 population-based cancer registries." *Indian Pediatrics*. 2023 Jul;60(7):541-5.
8. Budukh AM, Pradhan S, Singh VB, Khanna D, Bagal SS, Chakravarti PS, Sharma AN, Vishwakarma RK, Shinde SS, Khargekar NC, Chaturvedi P. "Cancer pattern in Varanasi district from Uttar Pradesh state of India, a foundation for cancer control based on the first report of the population-based cancer registry." *Indian Journal of Cancer*. 2024 Apr 1;61(2):383-9.
9. Anand A, Khanna D, Singh P, Singh A, Pandey A, Budukh A, Pradhan S. "Evaluation of medical certification of cause of death in tertiary cancer hospitals in Northern India." *Health Information Management Journal*. 2024 May;53(2):121-8.

## Poster presentation

Following posters presented in the 2024 IACR Scientific Conference was held in Beijing, China and co-hosted by the National Cancer Center / Cancer Hospital, Chinese Academy of Medical Sciences on 05th – 07th November, 2024.

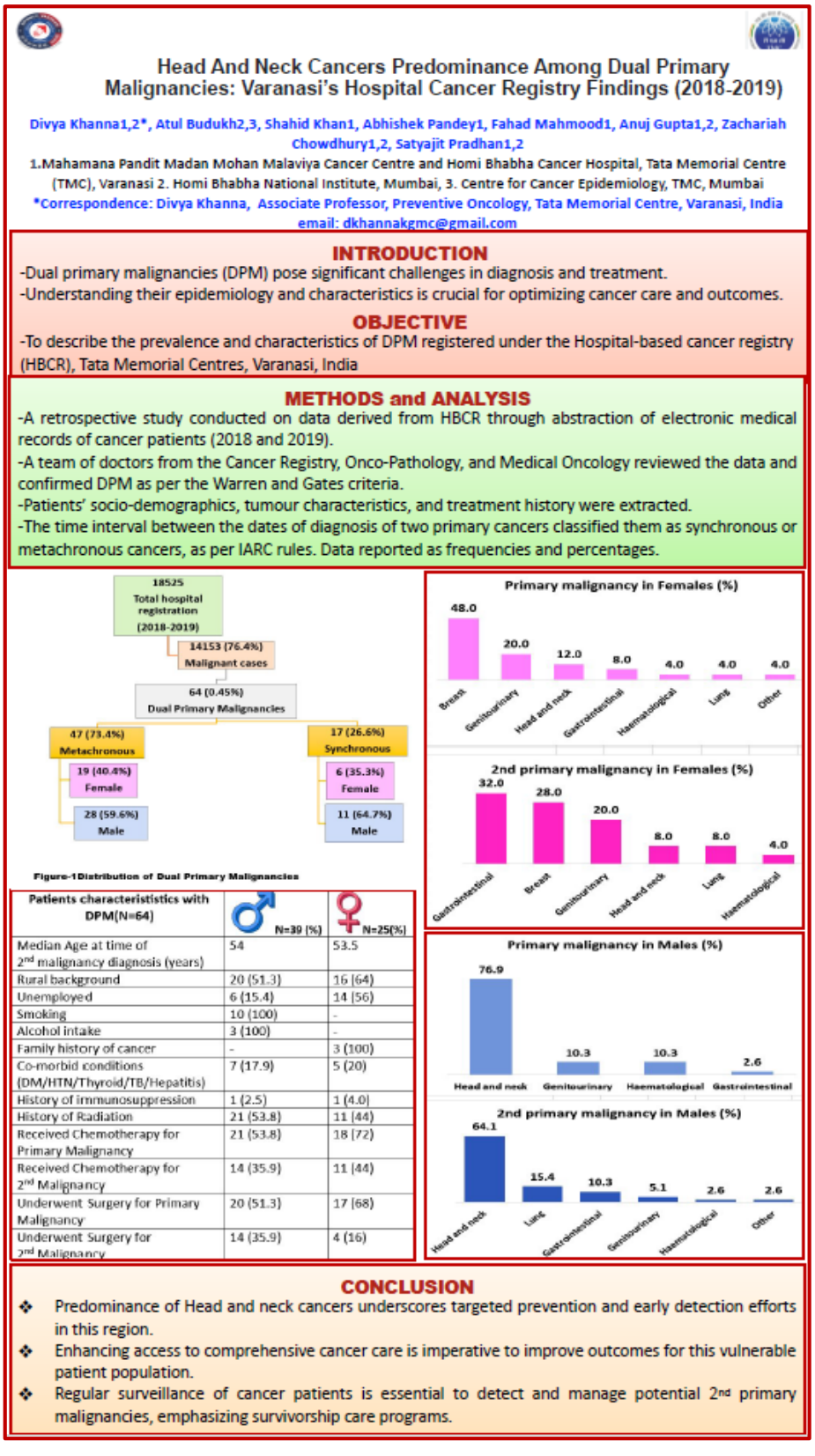
1. **Varanasi Adolescents and Young Adults: Highest Oral Cancer Burden Revealed by Population-Based Cancer Registry (2017-2019)**

   Divya Khanna, Atul Budukh, Rajesh Vishwakarma, Anand Sharma, Varsha Tripathi, Niraj Maurya, Aman Righuvanshi, Sonali Bagal, Pankaj Chaturvedi, Satyajit Pradhan



## 2. Head And Neck Cancers Predominance Among Dual Primary Malignancies: Varanasi's Hospital Cancer Registry Findings (2018-2019)

Divya Khanna, Atul Budukh, Shahid Khan, Abhishek Pandey, Fahad Mahmood, Anuj Gupta, Zachariah Chowdhury, Satyajit Pradhan



Head And Neck Cancers Predominance Among Dual Primary Malignancies: Varanasi's Hospital Cancer Registry Findings (2018-2019)

Divya Khanna1,2*, Atul Budukh2,3, Shahid Khan1, Abhishek Pandey1, Fahad Mahmood1, Anuj Gupta1,2, Zachariah Chowdhury1,2, Satyajit Pradhan1,2

1.Mahamana Pandit Madan Mohan Malaviya Cancer Centre and Homi Bhabha Cancer Hospital, Tata Memorial Centre (TMC), Varanasi 2. Homi Bhabha National Institute, Mumbai, 3. Centre for Cancer Epidemiology, TMC, Mumbai

*Correspondence: Divya Khanna, Associate Professor, Preventive Oncology, Tata Memorial Centre, Varanasi, India

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**INTRODUCTION**

-Dual primary malignancies (DPM) pose significant challenges in diagnosis and treatment.

-Understanding their epidemiology and characteristics is crucial for optimizing cancer care and outcomes.

**OBJECTIVE**

-To describe the prevalence and characteristics of DPM registered under the Hospital-based cancer registry (HBCR), Tata Memorial Centres, Varanasi, India

**METHODS and ANALYSIS**

-A retrospective study conducted on data derived from HBCR through abstraction of electronic medical records of cancer patients (2018 and 2019).

-A team of doctors from the Cancer Registry, Onco-Pathology, and Medical Oncology reviewed the data and confirmed DPM as per the Warren and Gates criteria.

-Patients' socio-demographics, tumour characteristics, and treatment history were extracted.

-The time interval between the dates of diagnosis of two primary cancers classified them as synchronous or metachronous cancers, as per IARC rules. Data reported as frequencies and percentages.



Figure-1Distribution of Dual Primary Malignancies

| Patients characteristics with DPM(N=64) | ♂ N=39 (%) | ♀ N=25(%) |
|---|---|---|
| Median Age at time of 2nd malignancy diagnosis (years) | 54 | 53.5 |
| Rural background | 20 (51.3) | 16 (64) |
| Unemployed | 6 (15.4) | 14 (56) |
| Smoking | 10 (100) | - |
| Alcohol intake | 3 (100) | - |
| Family history of cancer | - | 3 (100) |
| Co-morbid conditions (DM/HTN/Thyroid/TB/Hepatitis) | 7 (17.9) | 5 (20) |
| History of immunosuppression | 1 (2.5) | 1 (4.0) |
| History of Radiation | 21 (53.8) | 11 (44) |
| Received Chemotherapy for Primary Malignancy | 21 (53.8) | 18 (72) |
| Received Chemotherapy for 2nd Malignancy | 14 (35.9) | 11 (44) |
| Underwent Surgery for Primary Malignancy | 20 (51.3) | 17 (68) |
| Underwent Surgery for 2nd Malignancy | 14 (35.9) | 4 (16) |



**CONCLUSION**

- Predominance of Head and neck cancers underscores targeted prevention and early detection efforts in this region.
- Enhancing access to comprehensive cancer care is imperative to improve outcomes for this vulnerable patient population.
- Regular surveillance of cancer patients is essential to detect and manage potential 2nd primary malignancies, emphasizing survivorship care programs.

## 3. Cancer Registry's Role in Unveiling Cancer Care Disparities: Varanasi's Tertiary Cancer Center Findings

Divya Khanna, Atul Budukh, Rajesh Vishwakarma, Anand Sharma, Shahid Khan, Rahul Verma, Amita Maheshwari, Satyajit Pradhan

### CANCER REGISTRY'S ROLE IN UNVEILING CANCER CARE DISPARITIES: VARANASI'S TERTIARY CANCER CENTER FINDINGS

Divya Khanna1,2*, Atul Budukh2,3, Rajesh Vishwakarma1, Anand Sharma1, Shahid Khan1, Rahul Verma1, Amita Maheshwari2,4 Satyajit Pradhan1,2

1.Mahamana Pandit Madan Mohan Malaviya Cancer Centre and Homi Bhabha Cancer Hospital, Tata Memorial Centre (TMC), Varanasi 2. Homi Bhabha National Institute, Mumbai, 3. Centre for Cancer Epidemiology, TMC, Mumbai 4. Tata Memorial Hospital, Mumbai

*Correspondence: Divya Khanna, Associate Professor, Preventive Oncology, Tata Memorial Centre, India. dkhannakgmc@gmail.com

#### INTRODUCTION

Disparities in cancer care utilization persist, particularly in rural regions of India, despite the establishment of tertiary cancer centers (TCCs)

#### OBJECTIVE

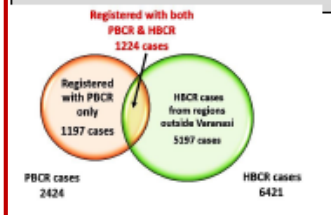
To describe the prevalence and determinants of cancer care utilization at TCC in a predominantly rural district of northern India

#### METHODS & ANALYSIS

- This retrospective study utilized data from Hospital-Based Cancer Registry (HBCR) from TCC established in Varanasi district and Population-Based Cancer Registry (PBCR) of Varanasi.
- Demographic details, tumor characteristics (topography and basis of diagnosis), and treatment information were extracted for all patients registered in the HBCR, who were residents of Varanasi. The data was cross-referenced with the PBCR for the year 2018.
- Sociodemographic factors and care-seeking patterns were analysed using univariable and multivariable logistic regression generating crude and adjusted odds ratio (COR and AOR) with 95% Confidence Interval (CI). p-value <0.05 was considered statistically significant.

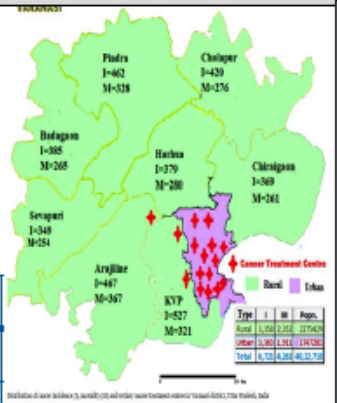
#### RESULTS

- In 2018, Varanasi PBCR registered 2424 incident cancer cases.
- In 2018, the HBCR registered 6421 cancer cases, of which 1224 cases (19.1%) were residents of Varanasi district.
- Of the 2424 Varanasi cancer patients, almost half (1197, 49.4%) did not avail cancer care from the two TCCs in the year 2018.




Distribution of Varanasi Cancer patients according to the type of cancer registration (n=2424)

| Variable | AOR (95% CI) | p value |
|---|---|---|
| Urban (Rural Ref.) | 1.7 (1.4-2.0) | 0.000 |
| 0-14 yrs (Ref.) | | |
| 15-59 yrs | 0.3 (0.2-0.6) | 0.000 |
| ≥ 60 yrs | 0.9 (0.8-1.2) | 0.742 |
| Clinical records (Ref.) | | |
| Histology | 2.2 (1.6-2.9) | 0.000 |
| Radiology | 4.3 (2.9-6.3) | 0.000 |
| Verbal Autopsy | 0.1 (0.1-0.2) | 0.000 |
| DCO | 0.05 (0.01-0.4) | 0.005 |
| Living with Other Relatives (Ref.) | | |
| With Children | 5.7 (2.9-11.4) | 0.000 |
| With Parents | 8.7 (4.6-16.76) | 0.000 |
| With Spouse | 13.1 (7.0-24.5) | 0.000 |




#### CONCLUSION

- Disparities in cancer care exist with vulnerable groups less likely to seek care from the TCCs.
- The study underscores addressing the complex interplay of sociodemographic factors along with strengthening the awareness and healthcare pathways to ensure equitable access to cancer care, especially in resource-limited settings.

**Which cancer patients were more likely to seek care at TCC?**

Multivariable regression showing the likelihood of seeking care from TCC according to the various bio-social variables of cancer patients:

- ✓ **Urban** patients twice more likely compared to rural patients,
- ✓ Patients with **histology or radiology confirmation** were 2-4 times more likely compared to those with other clinical records.
- ✓ Patients with caregivers being **children, parents, or spouses** were 5-13 times more likely compared to those with caregivers being other relatives.
- ✓ **Paediatric** patients more likely compared to elderly patients

## Photo gallery

Cancer cases data collection

Cancer cases data collection through PHC/ Hospitals/ Death registrar Office

Residence confirmation through house/village visit

Cancer awareness in the community/ schools/ ASHA workers

Population-based cancer registry Varanasi team

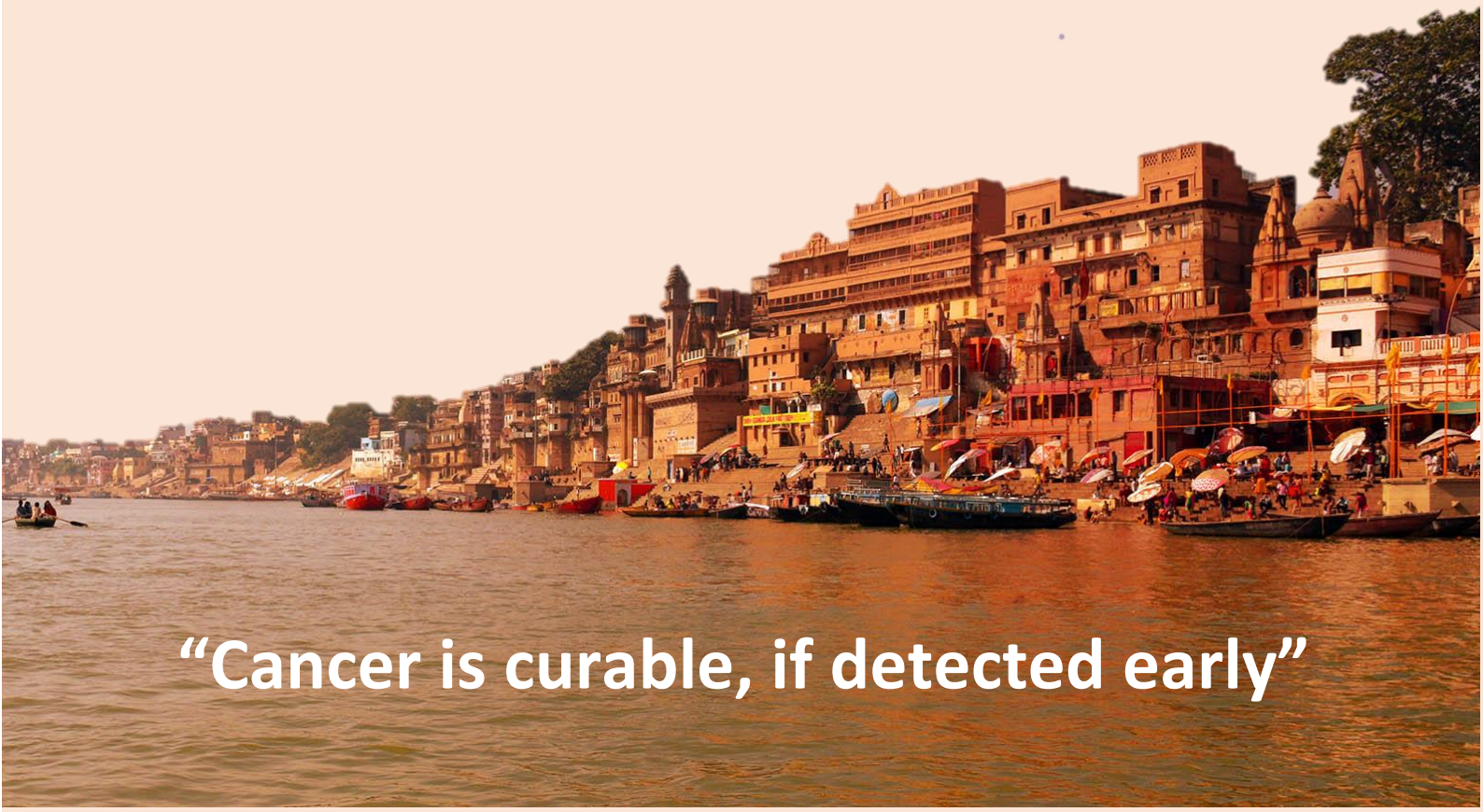


**Popuation-based cancer registry team along with Dr. Satyajit Pradhan (Director, HBCH & MPMMCC, Varanasi), Dr. Atul Budukh (Professor, CCE-TMC, Mumbai) and Dr. Divya Khanna (Associate Professor & OIC, Preventive Oncology, HBCH & MPMMCC, Varanasi)**

**Tata Memorial Centre (TMC), Mumbai, India**


**Advanced Centre for Treatment, Research & Education in Cancer (ACTREC), Kharghar, Navi Mumbai**


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



# "Cancer is curable, if detected early"