

Cancer Incidence and Mortality in SSDM Districts in 2018

Saptari
Siraha
Dhanusha
Mohattari



Government of Nepal
Nepal Health Research Council
Ramshah Path, Kathmandu



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(Siraha, Saptari, Dhanusha and Mohattari Districts)

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The burden of Non Communicable Disease is increasing globally. Currently, Nepal is also facing increasing double burden Non communicable disease like other developing countries. The major NCDs like cardiovascular disease, cancer, diabetes and chronic respiratory diseases are increasing in recent years. Cancer has become one of the major public health issues in Nepal which demands huge investment for prevention and treatment. It is reported as fifth leading cause of death in Nepal. In this context population based evidence of cancer is the primary need of government of Nepal in order to develop country specific strategies and programs to prevent, control and treat the diseases.

Population Based Cancer Registry has been established by Nepal Health Research Council since January 1, 2018 in close collaboration with Ministry of Health and Population (MoHP), WHO country office Nepal and International Agency for Research on Cancer (IARC) Regional Hub, Mumbai. The main aim of the registry is generating evidence on cancer incidence, mortality, pattern and trends in Nepal. The findings of the study will help in the development of cancer control strategy as per the need of the country. It also helps in providing the information regarding the geographical variation in the pattern of cancer which eventually helps the national, provincial and local governments to plan and develop targeted interventions to control cancer. It will serve as a basis in developing evidence based cancer control and prevention programs for the policy makers and planners.

I would like to take this opportunity to thank all who have supported and contributed in establishing the registry and generating the evidence. I express my sincere gratitude to the support of MoHP, technical assistance of IARC, Regional Hub and WHO Country Office for Nepal. I am very thankful to BP Koirala Memorial Cancer Hospital, Chitwan for their strong support and collaboration to continue the Population based cancer registry in Nepal. I extend my thankfulness to all the hospitals, hospice, ayurvedic centers, pathology laboratories, social security and nursing division, civil registration, local bodies like municipalities, DHOs/DPHOs, Health posts, ward offices and community leaders in helping us in providing the data. Finally, I appreciate NHRC team members for their continuous effort in making registry successful and providing such a valuable evidence to the country.

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List of Abbreviations

AAR	Age Adjusted Rates
ASR	Age Specific Rates
ASR	Age Standardized Rates
DCO	Death Certificate Only
FCHV	Female Community Health Volunteers
GICR	Global Initiative for Cancer Registry Development
HBCR	Hospital Based Cancer Registry
IARC	International Agency for Research on Cancer
MoFALD	Ministry of Federal Affairs and Local Development
MoHP	Ministry of Health and Population
NHRC	Nepal Health Research Council
O&U	Other and Unspecified
PBCR	Population Based Cancer Registry
SSDM	Siraha, Saptari, Dhanusha and Mahottari
TR	Truncated Rates
WHO	World Health Organization

Background

Nepal Health Research Council (NHRC), an autonomous government body, is responsible to promote and conduct, coordinate and regulate all kinds of research activities to improve the health status of the people in the country. In the recent health developments of the country, cancer has become one of the major challenges for the government in terms of prevention, control and provision of necessary cancer care services to the patients. In this regard, NHRC, in close collaboration with Ministry of Health and Populations, has started Population Based Cancer Registry (PBCR) since January 2018 aiming to provide necessary evidences on cancer cases to the government in order to plan and implement cancer control policies and strategies. The registry is technically supported by the WHO and the International Agency for Research on Cancer (IARC) Regional Hub, Tata Memorial Centre, India.

Three registries namely, Kathmandu Valley PBCR, Rukum PBCR and Siraha, Saptari, Dhanusha and Mohattari (SSDM) PBCR have been established covering 9 districts of the country representing urban, semi-urban and rural areas as well as the valley, hill, and terai regions in terms of geography. The objective of SSDM PBCR is to identify the cancer incidence, mortality and pattern of cancer in Siraha, Saptari, Dhanusha and Mohattari districts and to help in the development of cancer control strategies/activities to strengthen cancer care services in the areas.

Population Covered

The SSDM PBCR covers four districts, Siraha, Saptari, Dhanusha and Mohattari with a total of 40 urban municipalities and 28 rural municipalities. The estimated population covered by the registry in 2018 is 2,846,035.

Registration Method

The overall process of PBCR data collection is active method. There are two major approaches to collect the registry data. The first one is through the health facilities that include data collection from the cancer and/or the general hospitals having diagnostic and cancer treatment facilities, pathology laboratories and social security section. Due to the lack of cancer treatment facilities in SSDM districts, the neighboring healthcare facilities where the patients might visit for treatment have been considered for data collection. The data is collected from the records of the sources since January 2018 and recorded in the standard format. The second approach is through the trained data enumerators mobilized in the communities. They visit the health coordinators, health post in-charges, female community health volunteers (FCHVs), ward chairpersons and community leaders to identify the cancer cases and then visit the particular households to collect the information. The obtained data from all these sources are checked for the completeness and accuracy. Residence confirmation is done through individual phone call and the data are entered into the CanReg5 Software.

Findings

Over the year (2018), SSDM PBCR has registered 1106 new cancer cases (564 males and 542 females) and 286 death cases (155 males and 131 females). The Age Adjusted Incidence Rates (AAR) for male was 47.1 per 100,000 populations whereas the AAR for the female was 44.6 per 100,000 populations. Similarly, the Age Adjusted Mortality Rate for male was 13.1 per 100,000 populations and for females, 11.1 per 100,000 populations. The Mortality to Incidence ratio (M/I) in SSDM was 26 %, which is less as compared to the registries in neighboring countries like India and other registries within Nepal due to under reported death cases. Since the civil registration in Nepal is facing challenges to collect the death cases with actual cause of death registered, and the cases with cause of death as cancer is not recorded at all. All the other possible ways to identify the incident and death cases have been followed; however, some of the death cases might have been missed.

The higher cancer incidence is found among the age group of 70-74 years in males and 65-69 years in females with an age specific rate of 212.5 and 188.8 per 100,000 populations respectively. In males, the top leading cancer site is mouth followed by lung, gallbladder, liver and stomach whereas in females, the most common site is breast followed by cervix uteri, gallbladder, lung and stomach.

In 2018, 8% of primary site unknown cases in males and 4.4% in females have been registered, while these cases represent the diagnostic quality, availability and accessibility of the diagnostic centers and the improper documentation of medical records.

As this is the first year report, there may be under registration of the cases. However, the community approach for PBCR by mobilizing field enumerators and other stakeholders within the community has reduced the under-reporting of the cases to a greater extent. Besides, there is a plan to have cross sectional survey of the 5% population to check the completeness of the cancer registry in the future registries.

Because of the lack of cancer diagnostic and treatment facilities in SSDM districts, people have to travel 90 km to 2000 km for diagnosis and treatment of cancer. Hence, establishing the early detection centers in SSDM district is very important.

For some cases, the date of diagnosis and primary site relied on the verbal information of the patient and their relatives. Due to lack of scientific way of data recording and reporting in health facilities, the cases obtained through community could not be traced back in the hospitals affecting the exact representation of the cases. It is recommended to have digital and uniformed medical recording system with some mandatory variables in all government and private health facilities. Similarly, MoHP, related provincial government and local authority are advised to develop cancer prevention and control policy and intervention based on the evidence given by the registry.

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Background

Cancer is an urgent global challenge. According to GLOBOCAN, the global burden of cancer has risen to 18.1 million cases and 9.6 million deaths in 2018 alone (1). Global cancer statistics also shows that the burden of cancer is increasing in economically least developed countries compared to developed accounting nearly 57% of the cancer cases and 65% of the death cases worldwide in 2012 (1, 2).

Cancer registration provides the situation of cancer in a defined population and helps to plan for the cancer control programmes by the government. International Agency for Research on Cancer (IARC) in collaboration with Global Initiative for Cancer Registry Development (GICR) was established to accelerate improvements in the coverage, quality and use of PBCRs worldwide (3). The IARC/GICR Regional Hub has been established at the Tata Memorial Centre in Mumbai, India that serves the South, South-East and East Asia to help support countries with training, consultation and research in cancer (3).

In Nepal, cancer registry began when National Cancer Registry Program and Hospital Based Cancer Registry (HBCR) was initiated in 2003 by the B. P Koirala Memorial Cancer Hospital with the help of the WHO. Currently, there are 12 hospitals practicing HBCRs in Nepal (4). Primarily, the role of HBCR is to improve the hospital administration but it cannot provide the information regarding cancer incidence and mortality in a particular region. On the other hand, the Population Based Cancer Registry (PBCR) provides a systematic ascertainment of cancer incidence from multiple sources like health facilities, laboratories, cancer centers, hospice etc. that can provide real profile of the cancer burden in a defined population and its trend over the time. The data extracted from the PBCR would help to identify the real situation of cancer incidence in the population and formulate plans, policies and strategies for cancer control activities accordingly. Thus, PBCRs are recognized as indispensable components of any national cancer control programmes (5).

In this regard, the NHRC in collaboration with the Ministry of Health and Population (MoHP) started Population Based Cancer Registry (PBCR) in Nepal since January 2018. Until recently, the PBCR has been established in 9 districts of the country (Kathmandu, Bhaktapur, Lalitpur, Siraha, Saptari, Dhanusha, Mahottari, East and West Rukum) classified as, Kathmandu Valley PBCR, SSDM PBCR and Rukum PBCR represented from the urban, semi urban and rural areas from Bagmati province, province 2, 5 and Karnali province respectively (6).

The SSDM cancer registry covers the 4 out of 8 districts (50%) in province 2 as Siraha, Saptari, Dhanusha and Mahottari. The main objective of the SSDM PBCR is to generate evidence on cancer incidence, patterns and trends of disease and mortality related to cancer in the populations of Siraha, Saptari, Dhanusha and Mahottari districts enhancing the national capacity for sustainable PBCR in Nepal. The registry data will be useful in planning cancer control programs strengthening cancer care services in SSDM districts and the nearby semi-urban areas by the Government of Nepal.

Province 2 Profile

Province 2 also called as Madhes/Mithila/Bhojpura, is a province in the southeastern region of the country, formed after the adoption of the 2015 Constitution of Nepal. It is Nepal's second most populous province but the smallest province in terms of the area it has occupied. It borders with province 1 and Bagmati province to the North and East, Bagmati province to the West, and the Bihar province of India to the South. It has an area of 9,661 km² (3,730 sq meters) with a population of 4,592,434 as per the Ministry of Federal Affairs and Local Development (MoFALD) (5). The province includes eight districts namely Siraha, Saptari, Dhanusha, Mohattari, Sarlahi, Rautahat, Bara and Parsa that the majority of the population speaks Maithili, Bhojpuri, Bajjika and Nepali languages. The profiles of the registry districts within the province have been presented below:



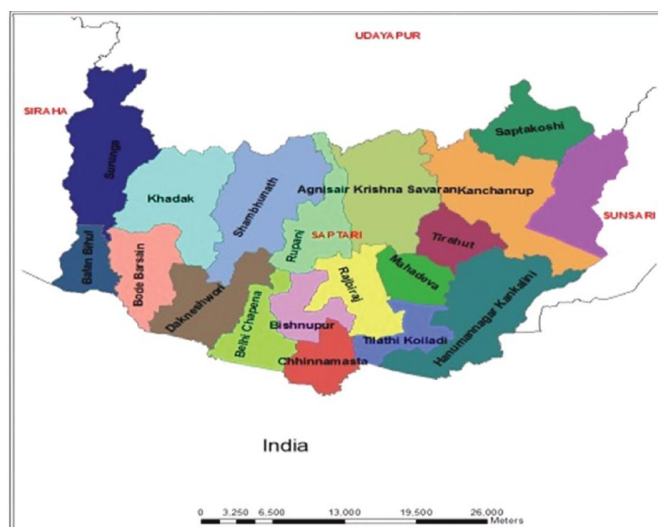
District Profile, Siraha



Siraha district is one of 77 districts of the country having the area of 1140 km² with an estimated population of 6,80,249 in 2018. The district is the headquarter of the province that boards with Saptari and Udayapur districts in the East, Dhanusha in the West, Sindhuli in the North and India in the South. There are 9 municipalities, 8 rural municipalities including a total of 163 wards, in the district.

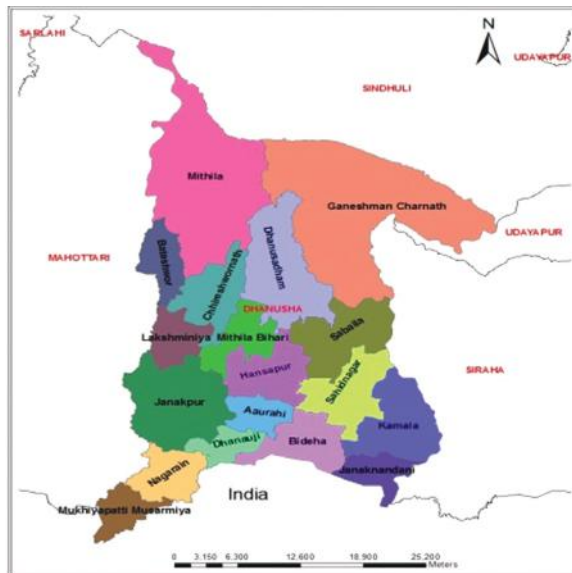
District Profile, Saptari

Saptari district is the 10th most populated district of the country with an area of 1363 km². The district has 9 municipalities and the same number of rural municipalities including 164 wards in it. The estimated population of the district in 2018 is 6,83,194. It boards with Sunsari district in the East, Siraha in the West, Udayapur in the North and India in the South.

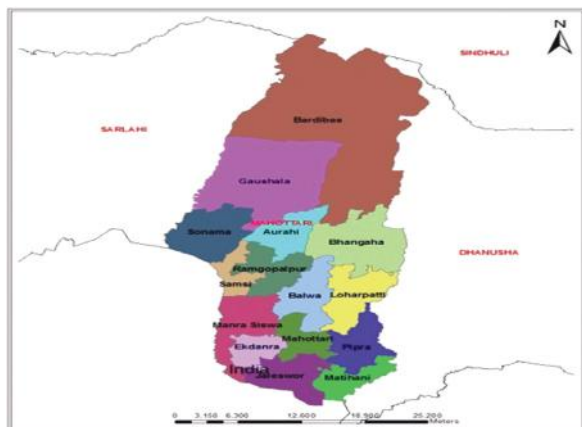


District Profile, Dhanusha

Dhanusha, the district of religious importance, is located in province no 2. The district headquarter is Janakpur, which is famous for the renowned temple and ponds like Janaki temple and DhanusSagar. It covers an area of 1180 km² that borders with Siraha district in the East, Mahottari in the West, Sindhuli in the North and India in the South. As the local levels, there are 12 municipalities and 6 rural municipalities including 169 wards within. The estimated population of the district is 8,07,858 in 2018.



District Profile, Mahottari



Mahottari district covers an area of 1002 km² with Jaleshwar as its headquarter (8). The district borders with Dhanusha in the East, Sarlahi in the West, Sindhuli in the North and India in the South. It has 10 municipalities and 5 rural municipalities including 138 wards. The estimated population of the district is about 6,74,734 in 2018.

Health Infrastructure in SSDM Registry Area

The four districts of registry area have a total of 7 district hospitals and 22 private hospitals with basic diagnostic and surgical facilities. The area has 383 health posts, 18 primary care centers, 42 urban health centers and 8 community health units as presented in the table below:

Table 1 Health Facilities at SSDM Districts

SN	Type of Health Facilities	Siraha	Saptari	Dhanusha	Mohattari	Total
1	Government Hospital	2	2	1	2	7
2	Private Hospitals	4	7	5	6	22
3	Health Posts	104	111	98	70	383
4	Primary Health Care Centers	4	4	5	5	18
5	Urban Health Centers	4	5	24	9	42
6	Community Health Units	1	2		5	8
Total		119	131	133	97	480

Source : District Health Office, Siraha

To some extent, supportive care for cancer cases has been provided at the health facilities within the districts. However, there are no any cancer diagnostic and treatment facilities available. Thus, the cancer patients from these areas go to Biratnagar, Dharan, Chitwan, Kathmandu, Bhaktapur, Lalitpur and even the neighboring country, India for treatment. The nearest centre from the area is Biratnagar, Dharan and Durbanga (India) at an equal distance of 93 km and the farthest centre is Mumbai, India at the distance of 2000 kms. The distance of the districts to different cancer treatment centers is shown in the figure below:

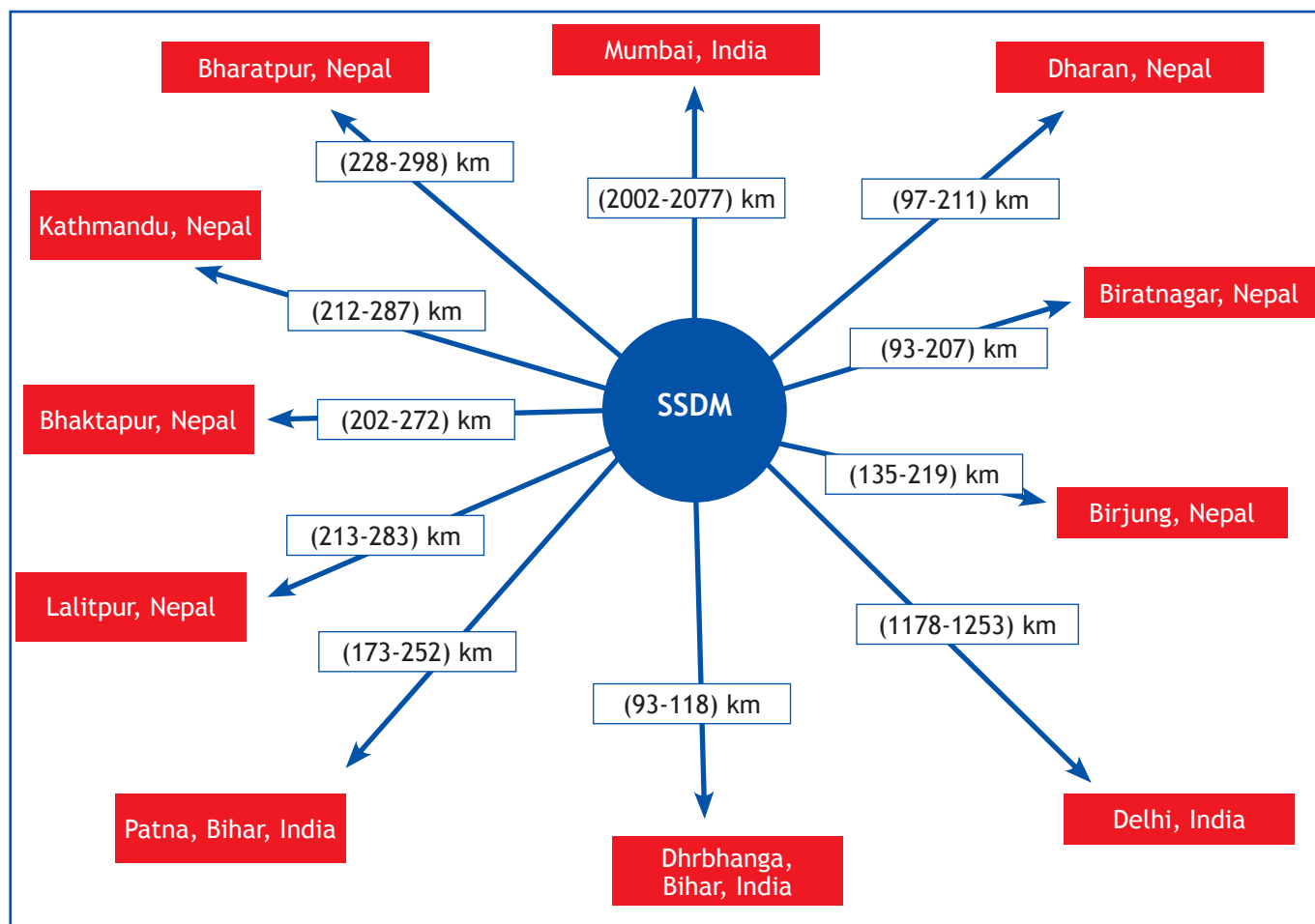


Figure 1 Distance from Siraha, Saptari, Dhanusha, and Mohattari to the Treatment Centre

Population Covered by the Cancer Registry

The SSDM cancer registry covers 4 out of 8 districts in province 2 with a total population of 2,658,933 as per 2011 census accounting 9.71% of the national Population. For the analysis purpose, the 2018 population of the districts has been estimated on the basis of 2001 and 2011 census, which shows that the total population of the district would be 6, 83,194 as described in the table below:

Table 2 Estimated Populations, 2018

SN	District	Population			Remarks
		Male	Female	Total	
1	Siraha	321188	359062	680249	Based on the growth rate of 2001 and 2011
2	Saptari	328124	355070	683194	
3	Dhanusha	397066	410792	807858	
4	Mohattari	325723	349011	674734	
Total		1372101	1473935	2,846,035	

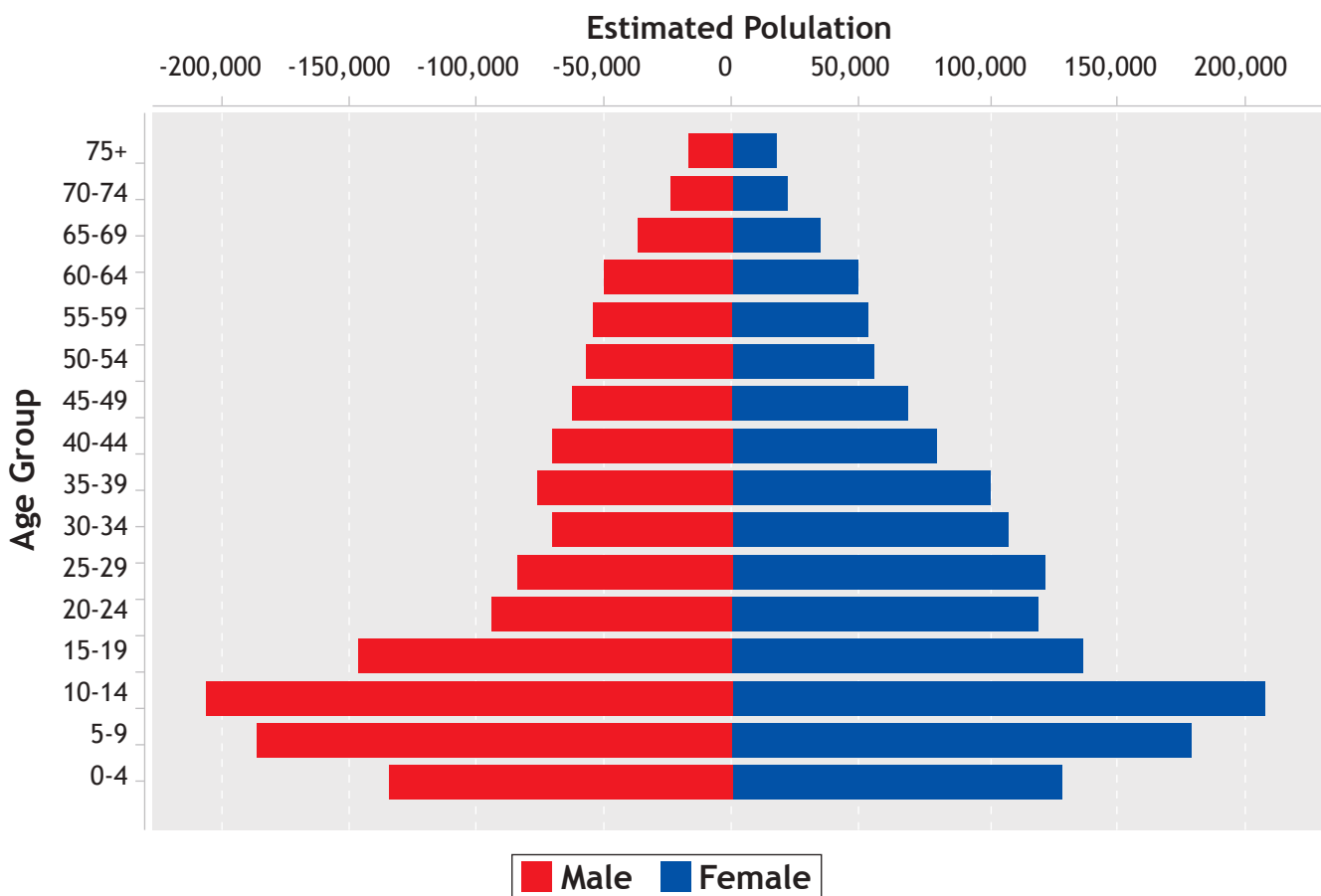


Figure 2 Population Pyramid of SSDM According to the Population Estimate 2018

Registration Method

The registry uses active method in order to collect data of the cancer cases in the given areas. Primarily, the registry has 3 basic categories through which the registry data are collected: health facilities, community and the other sources. Ethical approval from the Ethical Review Board (ERB) of NHRC was taken before the inception of registry.

Health Facilities/Institution:

Since the SSDM registry lacks cancer diagnosis and/or treatment centers, the prospective locations the cancer patients might visit such as Kathmandu valley, Morang, Sunsari, Chitwan as well as India have been consulted in order to collect data on cancer cases. Coordination and collaboration has been made with the cancer hospitals, diagnostic centers, hospice and aayurvedic centers in these areas and the registry data have been obtained on regular basis.

Community:

Community represents the health facilities available in the communities and/or the health division at each urban/rural municipality that help provide data on cancer cases including the household visit to obtain the data. Initially, orientations were given to the Health Coordinators at urban/rural municipalities, Health In-charges and the respective Female Community Health Volunteers (FCHVs) regarding data collection from the communities. Particularly, the FCHVs collect data from the population through home visit and submit to the respective Health In-charges. Then, the Health In-charges submit data to the Health Coordinators and the Health Coordinators to the NHRC office. However, this approach did not work satisfactorily due to less dedicated/motivated staffs in most of the areas.

In order to collect data on cancer cases, data enumerators have been employed, trained and mobilized in the fields. They visit each ward of urban/rural municipalities and meet the ward chairpersons, municipality health coordinators, health post in-charges and community leaders to identify any cancer cases known or dead in their locality. Then, they visit the households of cancer cases, have the written consent and collect the required data. Beside this, the lists of cancer patients who have taken ward or municipality's recommendation for (treatment) support from the government have been consulted to obtain the remaining information.

Other Sources:

The other sources of data collection on cancer cases refers to the Social Security Section at the Department of Health Services, in which the record of cancer patients entitled with the government subsidy for the treatment throughout the country have been secured. Similarly, another source of cancer mortality data is the civil registration sections at the urban/rural municipalities, however, they do not record the cause of death as cancer which is not useful for the registry.

Then, all the obtained data from the health facilities and communities have been checked and verified for the completeness and accuracy of the information. Patients or the contact persons were contacted through phone call for residence confirmation and for missing information if any. Finally, the data collected manually in the paper forms are electronically entered into CanReg5 software, the software specially designed for cancer registry to enter, check, store and analyze the registry data. The unique feature of CanReg5 is that it identifies the potential duplicates based on the assigned variables. The patient duplication, the common challenge/issue of the registry can also be easily identified from the software.

Confidentiality of each individual has been maintained throughout the registration that only the data enumerators, research coordinators and the data entry personnel know the details of the patients. The collected forms have been stored in separate cabinet whereas the sole responsibility of the registry retains within the Population Based Cancer Registry Section at the NHRC office.

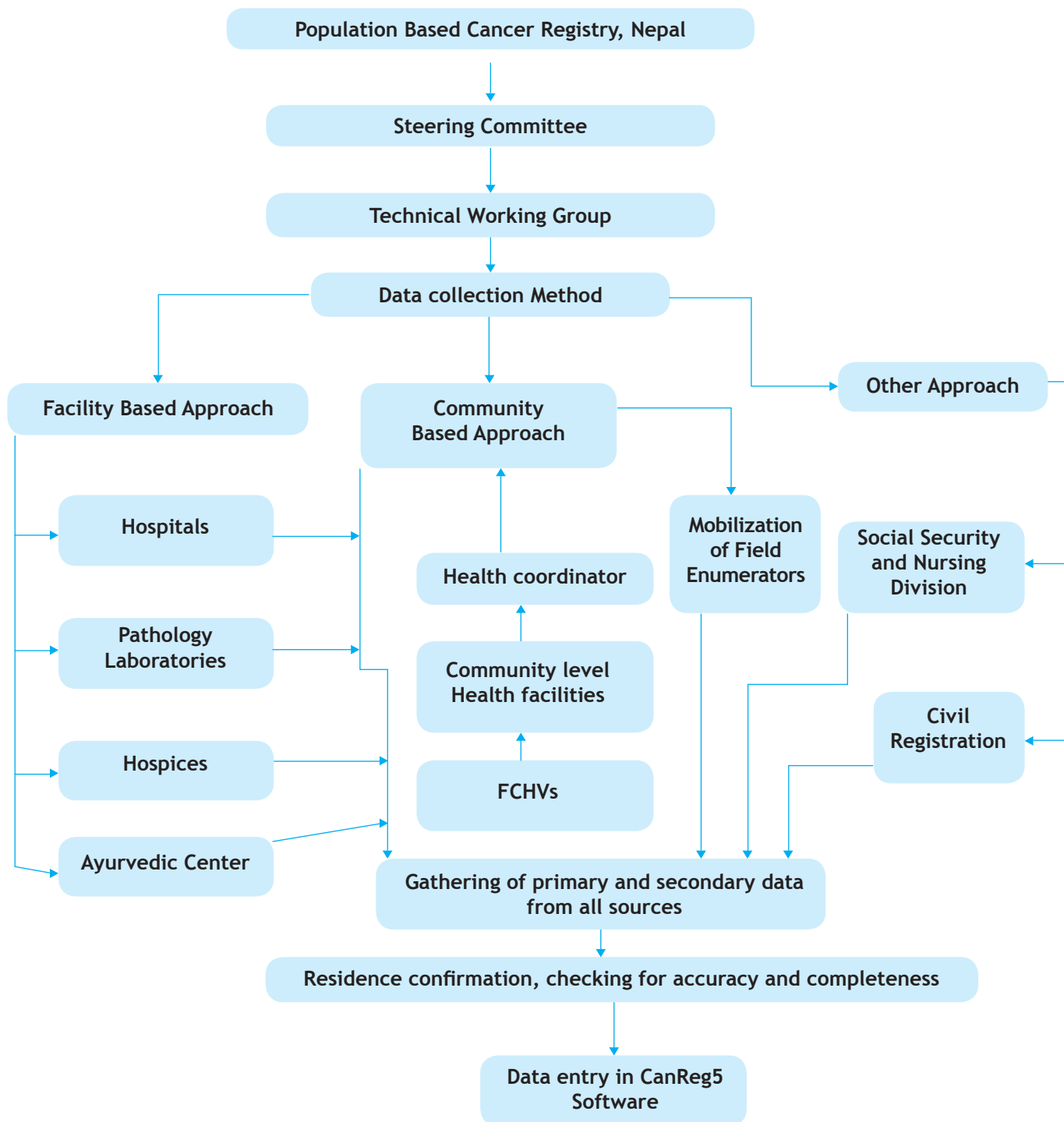


Figure 3 Flow Chart for Data Collection Process on Cancer Registry

Sources of Data

Currently, there are 24 (government and private) hospitals including 1 laboratory, 1 ayurvedic centre and a hospice in Kathmandu valley, and 1 hospital each in Chitwan, Sunsari, Morang and India providing data for the SSDM, PBCR. Additionally, the data are obtained from the Department of Health Service, Social Security Section and the urban/rural municipalities and respective ward offices in Siraha, Saptari, Dhanusha and Mahottari districts. At the community levels, data are obtained through the data enumerators. The lists of the sources are presented in the table below:

Table 3. Data Sources of SSDM PBCR

S.N	Name of the Source	Place
Hospitals		
1	Annapurna Neuro Hospital	Kathmandu
2	Bir Hospital	Kathmandu
3	Birendra Military Hospital	Kathmandu
4	Civil Hospital	Kathmandu
5	Grande International Hospital	Kathmandu
6	HAMS Hospital	Kathmandu
7	Kanti Children Hospital	Kathmandu
8	Kathmandu Medical College Teaching Hospital	Kathmandu
9	Kathmandu Model Hospital	Kathmandu
10	KIST Medical College and Teaching Hospital	Kathmandu
11	Nepal Medical College	Kathmandu
12	Norvic Hospital	Kathmandu
13	Om Hospital and Research Center	Kathmandu
14	Paropakar Maternity and Women's Hospital	Kathmandu
15	Tribhuvan University Teaching Hospital	Kathmandu
16	Vayodha Hospital	Kathmandu
17	Alka Hospital	Lalitpur
18	B and B Hospital	Lalitpur
19	National Cancer Hospital and Research Center	Lalitpur
20	Nepal Cancer Hospital & Research Center	Lalitpur
21	Nepal Medicity Hospital	Lalitpur
22	Patan Hospital	Lalitpur
23	Bhaktapur Cancer Hospital	Bhaktapur
24	Kathmandu Cancer Centre	Bhaktapur
25	B.P. Koirala Memorial Cancer Hospital	Chitwan,
26	BPKIHS, Dharan	Sunsari
27	Nobel Medical College, Biratnagar	Morang
28	Tata Memorial Hospital	India
Laboratory		
1	Samyak Pathology	Lalitpur
Ayurvedic centre		
1	Dibya Ayurvedic	Kathmandu
Hospice		
1	Hospice Nepal	Lalitpur
Other sources		
1	Department of Public Health office, Department of Health Services	Siraha, Saptari, Dhanusa and Mahottari district
2	Urban/Rural Municipalities and Wards	Siraha, Saptari, Dhanusa and Mahottari district

Community Involvement in Cancer Registration Process

The cancer patients in Siraha, Saptari, Dhanusha and Mahottari have to travel (60-1200 kms) outskirts of the district since there are not any cancer care and treatment facilities within the district. It was thus very important to ensure the engagement of community people to identify the cancer cases in their respective communities. The community engagement has been possible through the mobilization of Female Community Health Volunteers (FCHVs) to identify cancer cases at the locations. They have been oriented in such a way that primary data collections from grass root levels are reported by them to the health posts and/or the health coordinator in the urban/rural municipality on periodic basis.



In addition to the orientation and co-ordination with the health service providers, the field enumerators have also been employed, trained and mobilized in the fields. They meet the health coordinators, health post in-charges; FCHVs and respective local representatives like ward chairperson, community leaders and collect information on the presence of cancer cases in their locality. They are also responsible for raising awareness among the community people regarding the importance of PBCR.

Due to interaction programs, community people are aware and sensitized on PBCR that there has been a complete coverage of cancer cases in the locations. During 2018, interaction had been made with a total of 1953 community people as described in the table below:

Table 4 People Interacted by the PBCR in SSDM during 2018

District	FCHV	Ward Secretary	Ward Chairperson	Other Ward Personnel	Health Post Incharge	Health Coordinator	ANM/AHW	Health Assistant	Mayor/Vice-Mayor	Community Leader	Total
Siraha	342	36	59	5	26	8	41	7	0	0	524
Saptari	83	30	41	2	20	2	33	11	0	2	224
Dhanusha	10	0	120		80	18	4	0	13	30	275
Mohattari	675	39	90	11	37	23	44	11	0	0	930
Total	1110	105	310	18	163	51	122	29	13	32	1953

Quality Control

Mortality to Incidence Ratio

The mortality to incidence (M/I) ratio represents the completeness and accuracy of cancer mortality data. In 2018, a total of 1106 (564 male and 542 female) incidence of cancer cases and 286 (155 male and 131 female) death cases were registered. Hence, the overall M/I ratio is 27% (male: 27% and female: 24%) and is less compared to other registries in Nepal as well as the registries in India.

The death cases registered by the PBCR were based on the data obtained from the hospital records, community and through the phone calls to the patient and/or their relatives during the residence confirmation. Since the government of Nepal doesn't have any provision to reflect the cause of death as cancer in its vital registration, some death incidences might have been missed by the registry. Provided, the registry could include the cause of death in vital registration, the number of death cases would have been increased. However, the organization is trying its best to improve the system of registering the death cases in the vital registration.

Quality Control of Cases

In order to ensure quality of the data, the data enumerators are trained for the abstraction of the cases while the collected data have been checked, verified and confirmed for the residence through individual phone calls from the NHRC office. Then, the collected and entered data are checked for consistency and accuracy by the staffs at IARC, Regional Hub, Mumbai. In places where low incidences were found, the data enumerators revisited the communities for further identify the cases if missing.

Microscopic Verification of the Cases

Microscopic verified proportion is one of the internationally accepted indicators for data quality. As microscopic verification is considered gold standard for the diagnosis of cancer, the higher the proportion of microscopic verified cases, the more valid and accurate the data are.

In 2018, out of 564 male cancer cases, 62% were registered on the basis of microscopic verification, 9% were through radiological investigation and clinically and 27% were recorded as verbal information. Verbal information refers to the cases who are found in the community, diagnosed as cancer, however could not find the report for basis of diagnosis and also could not find information at hospital where they are diagnosed and treated. The registry reported only 2% of Death Certificate Only (DCO) cases in males. Similarly, in females, out of 542 cases the registry reported 66% diagnosed microscopically, 23% were recorded through verbal information and there were 2% of DCO cases. The overall microscopic verification was 63.8% of incident cases described in table below.

Table 5. Cancer Incidence According to Basis of Diagnosis in SSDM, 2018

Basis of Diagnosis	Male	Male %	Female	Female %	Total	%
Microscopic Verification	350	62	356	66	706	63.8
Non-Microscopic	53	9	49	9	102	9.2
Verbal Information	151	27	124	23	275	24.9
Death Certificate Only	10	2	13	2	23	2.1
Total	564		542		1106	

Average Number of Sources Per Case Registered:

Multiple sources for data collection increases the completeness as well as accuracy of the registry data. The more the number of sources, the higher is the degree of coverage and completeness of the registry.

The cancer cases were counted as per the source of data obtained that one case is obtained from 2 to 4 sources. In SSDM, the source per case registered is 1.27 reflecting the good coverage of the sources.

Childhood Cancer Incidence Rates:

Out of total 1106 cancer cases, 47 cases were pediatric cases. There were 33 cases of boys and 14 cases of girls as shown in the table below. The Age Specific Rate (ASR) for pediatric cancer registered is less however, comparable with other registries within Nepal.

Table 6. Incidence Rates of Pediatric Cancer Cases in SSDM, 2018

Age Group	Boys		Girls	
	No. of Cases	Age Specific Rate	No. of Cases	Age Specific Rate
0-4	14	10.4	6	4.7
5-9	7	3.8	4	2.2
10-14	12	5.8	4	1.9

Cancer Cases Registered by Source of Registration: First Source of Information

Though the infrastructures like transportation, communication are well established, the health services in the SSDM districts are lagging behind. There is no any cancer diagnosis and treatment facilities within the districts because of which, the cancer patients scatter into various places for treatment. The major source of data for the patient in the SSDM districts was B.P. Koirala Memorial Cancer Hospital, Chitwan accounting for 42% of the total cases. Similarly, 32% cases have been captured from the community consulting FCHVs, and home visits by the enumerators. The cancer incidence registered by first source of registration are mentioned in the table below.

Table 6 Cancer Incidence Cases, 2018- First Source-wise Distribution

Name of the Source	Male	%	Female	%	Total	%
B.P. Koirala Memorial Cancer Hospital	226	40.1	238	43.9	464	42.0
Community: (FCHVs/Field Enumerators)	200	35.5	176	32.5	376	34.0
Bhaktapur Cancer Hospital	40	7.1	38	7.0	78	7.1
BPKIHS Dharan	28	5.0	18	3.3	46	4.2
Nepal Cancer Hospital & Research Center	19	3.4	24	4.4	42	3.8
Kathmandu Cancer Centre	8	1.4	8	1.5	16	1.4
Bir Hospital	7	1.2	7	1.3	14	1.3
Kanti Children Hospital	8	1.4	4	0.7	12	1.1
Civil Hospital	7	1.2	5	0.9	12	1.1
Nepal Medicity Hospital	8	1.4	3	0.6	11	1.0
Tribhuvan University Teaching Hospital	2	0.4	6	1.1	8	0.7
Patan Hospital	4	0.7	2	0.4	6	0.5
National Cancer Hospital and Research Centre	3	0.5	2	0.4	5	0.5
Grande International Hospital	0	0.0	2	0.4	2	0.2
Birendra Military Hospital	2	0.4	0	0.0	2	0.2
Tata Memorial Hospital	1	0.2	1	0.2	2	0.2
Om Hospital and Research Center	0	0.0	1	0.2	1	0.1
Paropakar Maternity and Women's Hospital	0	0.0	1	0.2	1	0.1
Kathmandu Medical College Teaching Hospital	0	0.0	1	0.2	1	0.1
Nepal Medical College	0	0.0	1	0.2	1	0.1
Norvic Hospital	0	0.0	1	0.2	1	0.1
Annapurna Neuro Hospital	0	0.0	1	0.2	1	0.1
B and B Hospital	0	0.0	1	0.2	1	0.1
Alka Hospital	0	0.0	1	0.2	1	0.1
Nobel Medical College, Biratnagar	1	0.2	0	0.0	1	0.1
Total	564	100	542	100	1106	100

Findings

In 2018, the SSDM PBCR has obtained a total of 1986 cancer cases from hospital and community. After residence confirmation, duplicate adjustment and verification of data, the SSDM registry had registered 1106 cancer cases diagnosed in 2018. Among them, 564 were males and 542 females whereas the Age Adjusted Incidence Rate (AAR) for male was 47.1 per 100,000 and for female 44.6 per 100,000 populations.

The SSDM PBCR registered 286 death cases in 2018, out of which 155 were males and 131 were females. The age-adjusted mortality rate for male was 13.1 per 100,000 populations and for females; it was 11.1 per 100,000 populations as shown in the figure below.

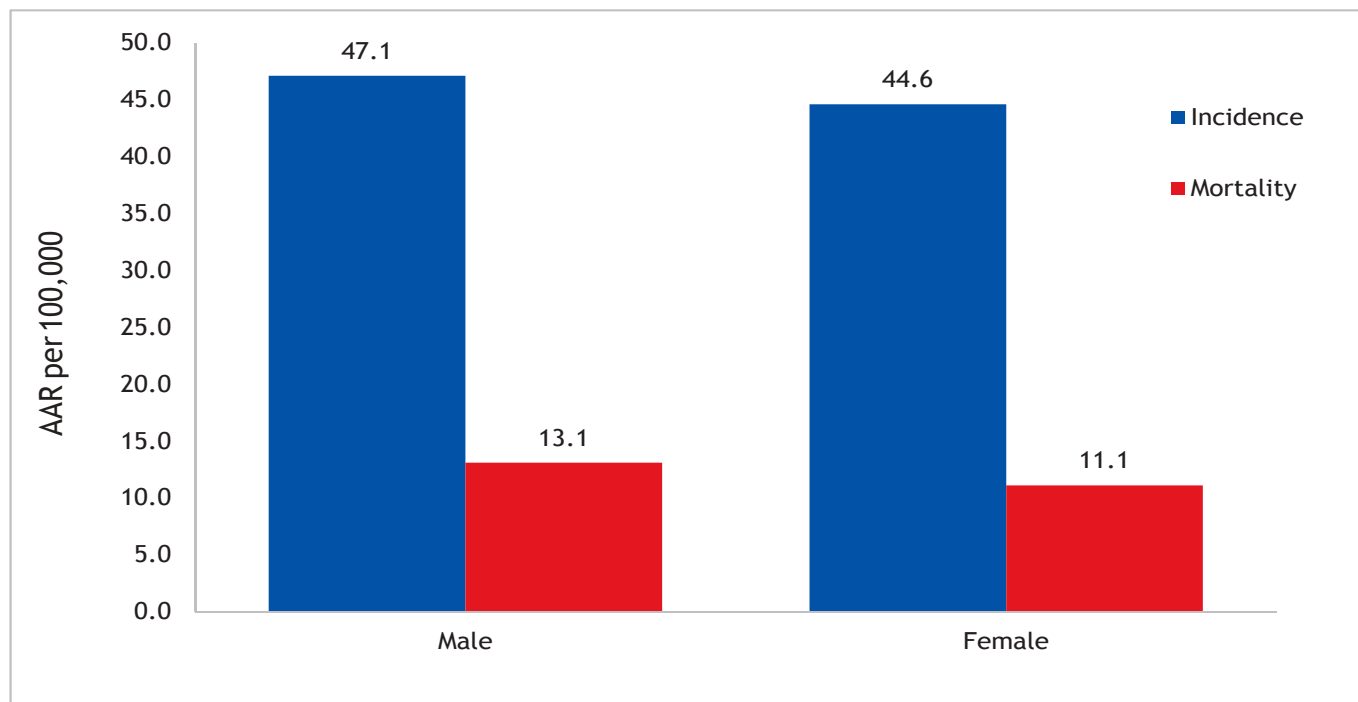


Figure 4 All Sites Cancer Incidence and Mortality Rate by Sex in SSDM Registry Area, 2018

Moreover, both the cancer incidence and mortality was found to be increased along with increasing age group for males, and both reached peak at the age group of 70-74 years & 75 years and above as shown in the figure below:

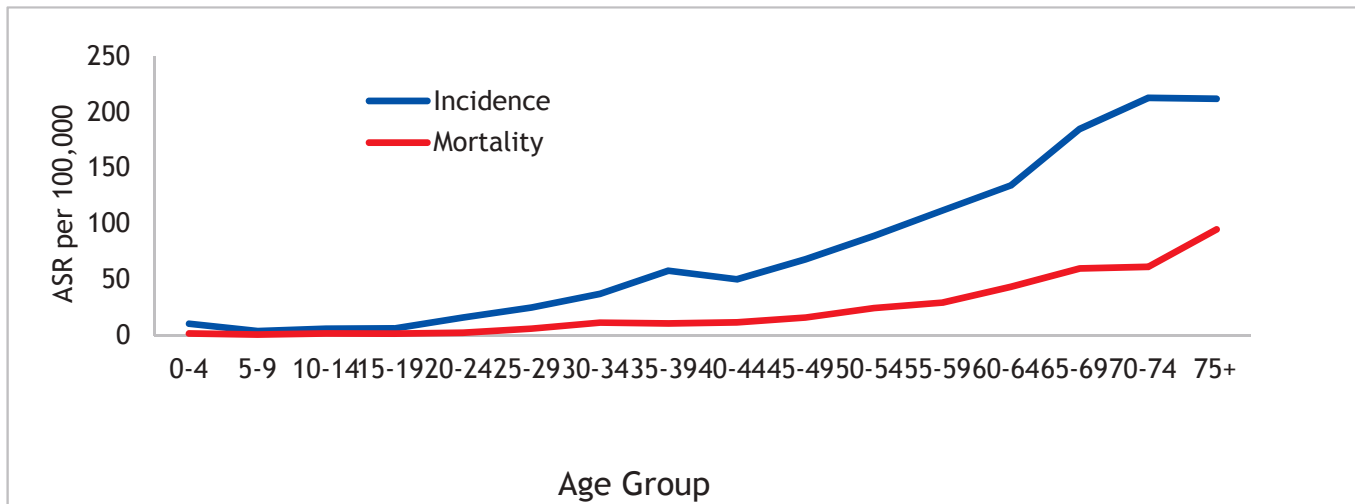


Figure 5 Age Specific Incidence and Mortality Rate in SSDM Registry Area: Male All Sites

The cancer incidence in SSDM for females noted to be increased with increasing age group. The incidence is highest among the age group of 65-69 years followed by the age groups 70-74 years and 75 yrs and above, respectively. Whereas, the peak age group of mortality is 70-74 years followed by 65-69 years and 60-64 years as illustrated in the figure below:

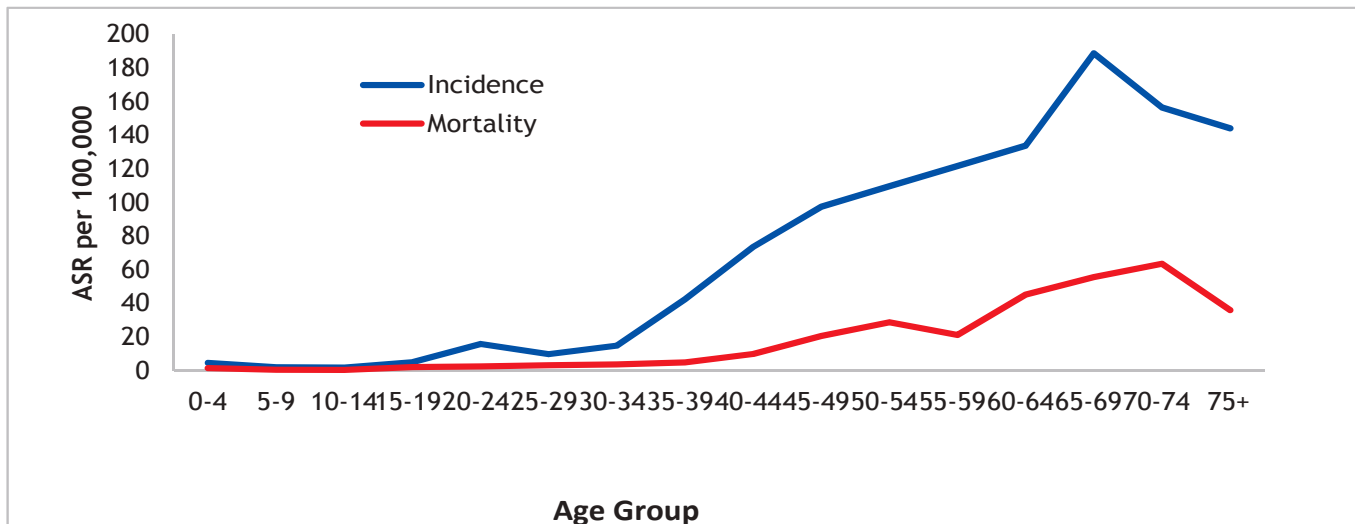


Figure 6 Age Specific Incidence and Mortality Rate in SSDM Registry Area: Female All Sites

While looking at the 4 districts of SSDM PBCR (Siraha, Saptari, Dhanusha and Mohattari) separately, Siraha district had a total of 320 new cancer cases, out of which 166 were male cases, with AAR 59.1 per 100,000, and 154 were female cases with AAR 50.8 per 100,000 populations. The mortality cases in 2018 registered in Siraha district was 95 in which male case was 57 and female cases, 38 with the AAR 20.2 and 13.0 per 100,000 population, respectively.

In Saptari district, the total number of cases were 298. The age adjusted rate in males was 58.7 per 100,000 (175 cases) and for female, 40.1 per 100,000 populations (123 cases). The mortality was 78 in total with male death cases of 44 (AAR 15.4) and female 34 (AAR 11.3). Similarly, Dhanusha district had 263 new cancer cases. Out of which, 120 were male with AAR 35.8 per 100,000 populations and 143 were female with AAR 44.2 per 100,000. Cancer death cases registered at Dhanusha were 46, out of which 20 were male and 26 were female. The age adjusted mortality rates for male was 6.0 per 100,000 population, and for females, it was 8.8 per 100,000 populations. Likewise, in Mohattari district, the total number of incidence cases were 225 (103 male and 122 female) and total deaths were 67 (34 male and 33 female). The age adjusted cancer incidence and mortality for all sites among male and female as per the 4 districts has been presented in figure below:

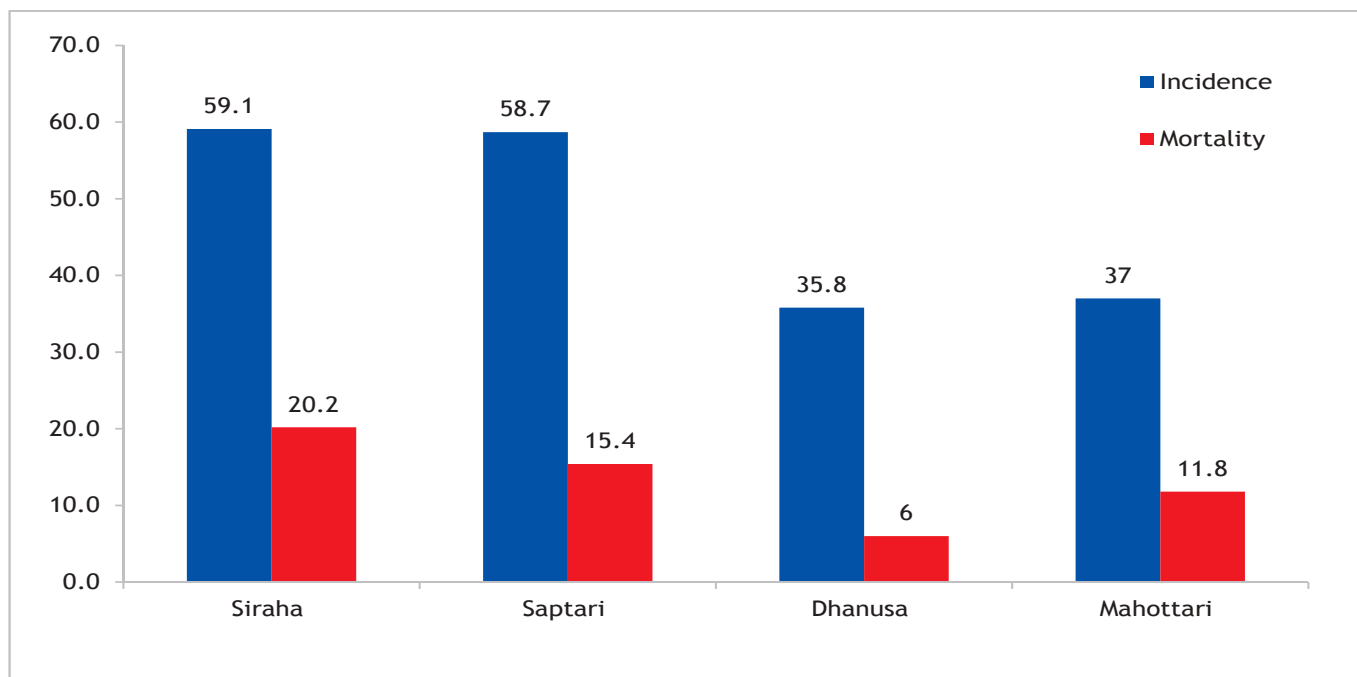


Figure 7. All Sites Cancer Incidence and Mortality Rate: Males in Siraha, Saptari, Dhanusha and Mohattari Districts, 2018

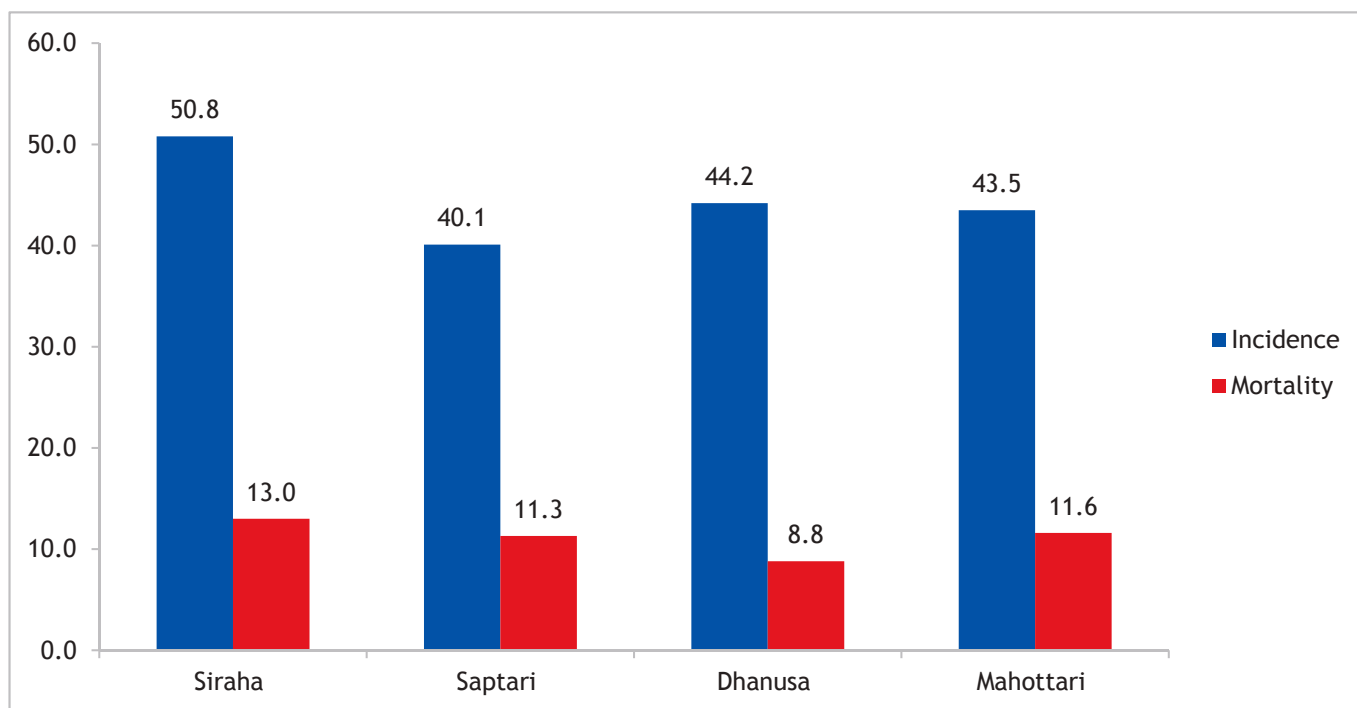


Figure 8. All Sites Cancer Incidence and Mortality Rate: Females in Siraha, Saptari, Dhanusha and Mohattari Districts, 2018

Leading cancer sites

In SSDM, the leading sites of cancer in male in 2018 were mouth, lungs, gallbladder, liver and stomach. In female breast, cervix uteri, gallbladder, lungs and stomach were the leading sites. The top ten leading sites in male and female is presented in the figure below.

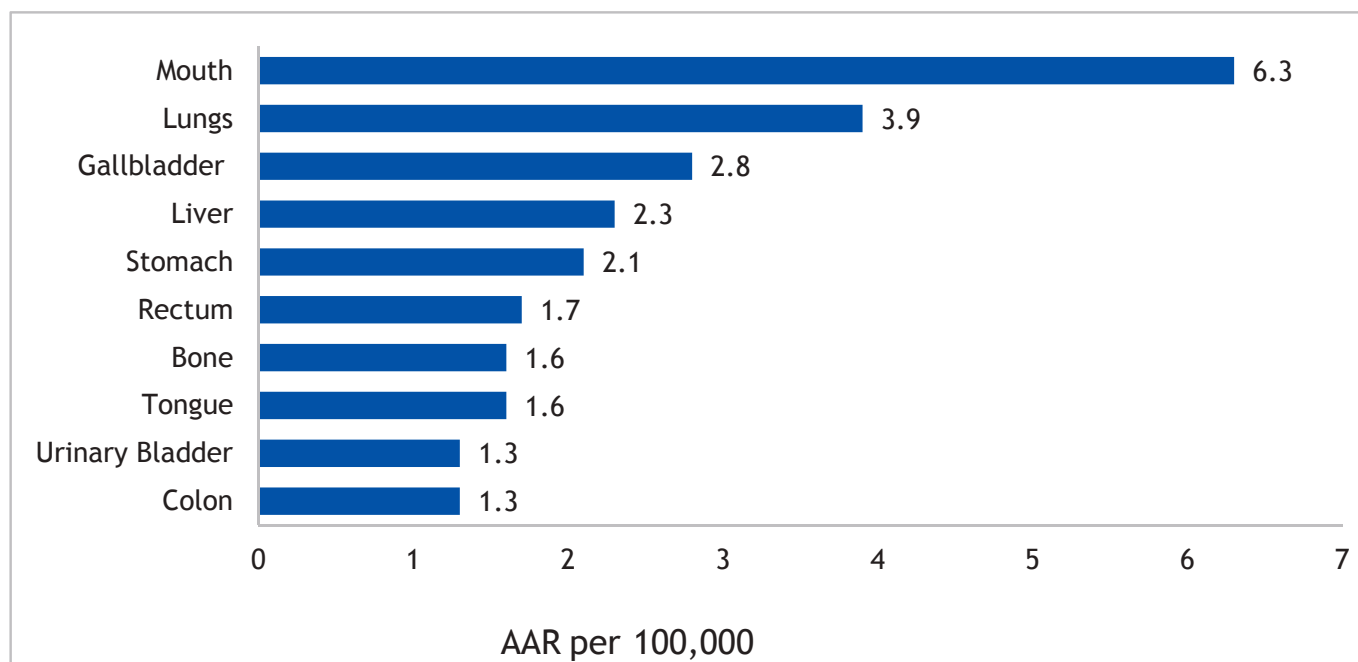


Figure 9. Leading Cancer Sites: Male, SSDM (Siraha, Saptari, Dhanusha and Mohattari Districts; n=564)

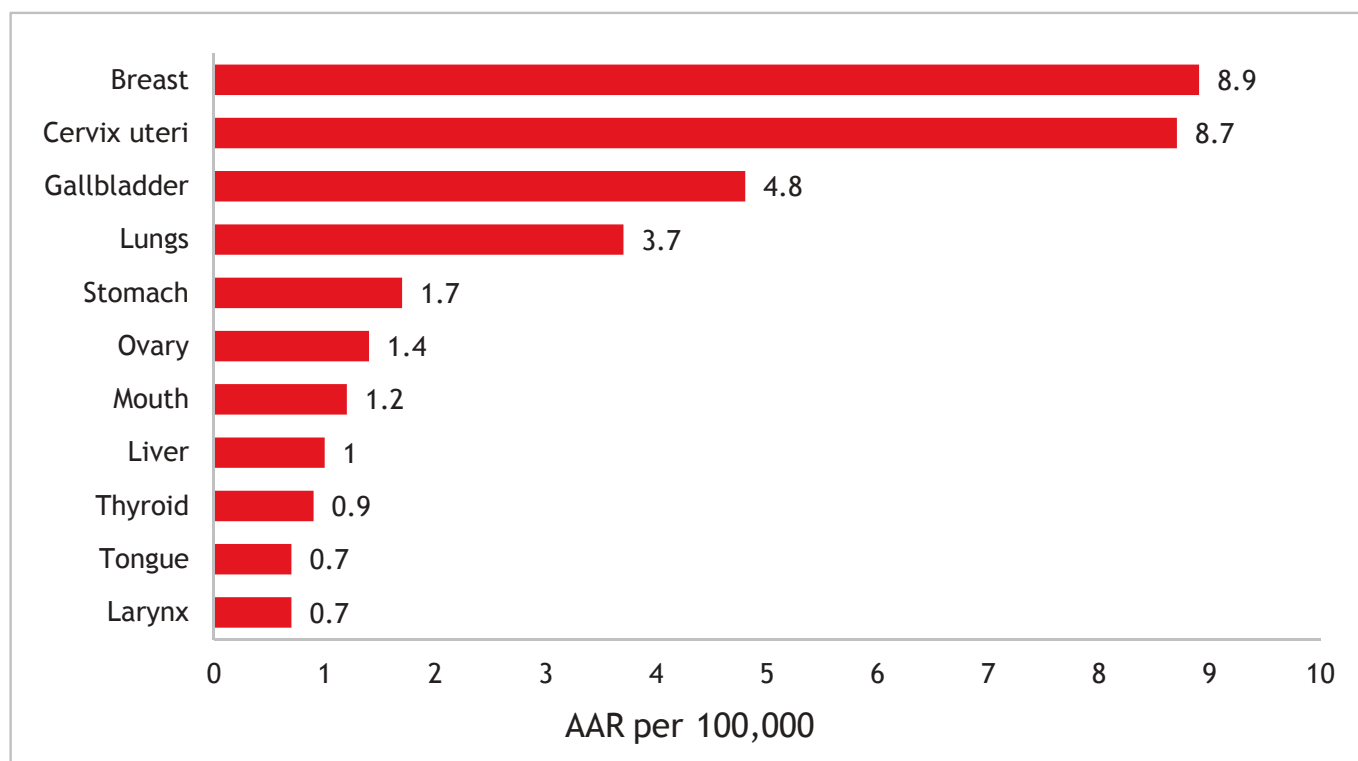


Figure 10. Leading Cancer Sites: Female, SSDM (Siraha, Saptari, Dhanusha and Mohattari Districts n=542)

In Siraha district, the leading sites in male were lungs, liver, mouth, gallbladder, brain and nervous System. In females, the common sites were breast, cervix uteri, lungs, gallbladder and ovary which was somewhat similar to SSDM combine.

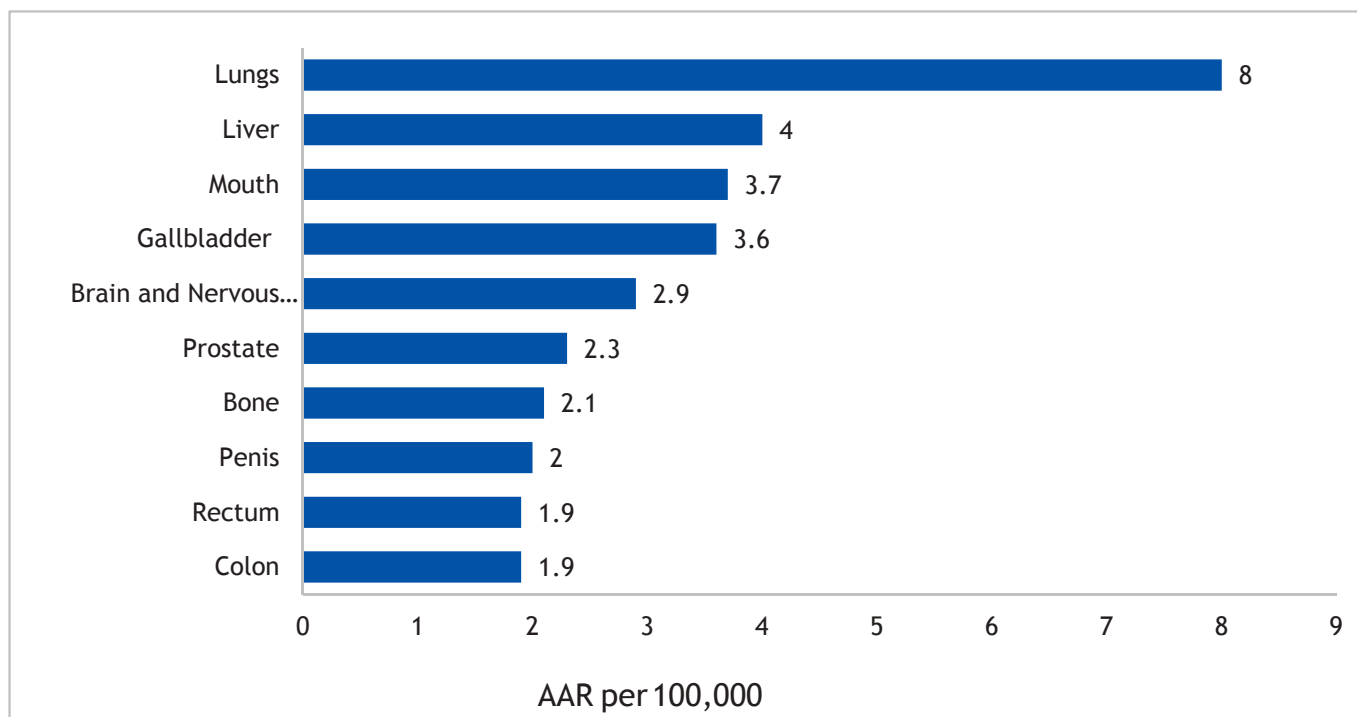


Figure 11. Leading Cancer Sites: Male, Siraha District (n=166)

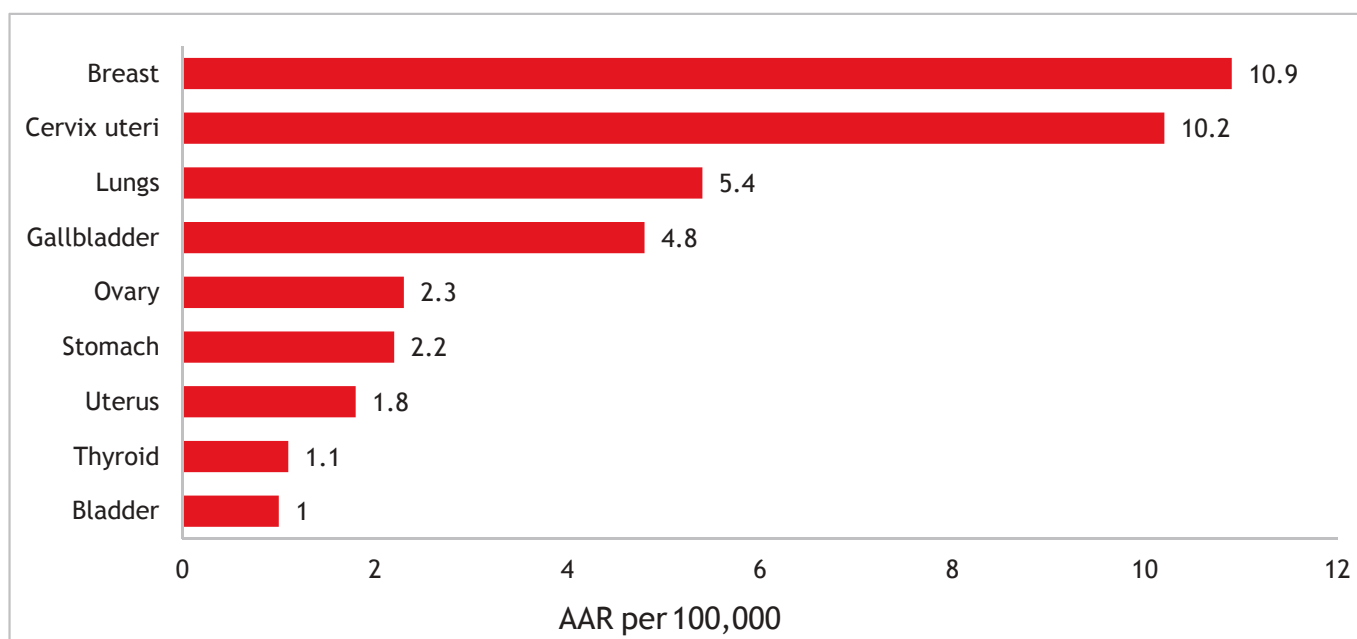


Figure 12. Leading Cancer Sites: Female, Siraha District (n=154)

The commonest sites in male in Saptari district in 2018 were mouth, lungs, liver, gallbladder and rectum. In contrast to Siraha district mouth was the topmost leading site and brain and nervous system did not come as top ten leading site in Saptari district other sites being similar. Similarly, in females the top leading sites were cervix uteri, breast, gallbladder, mouth, lungs and liver as described in the figure below.

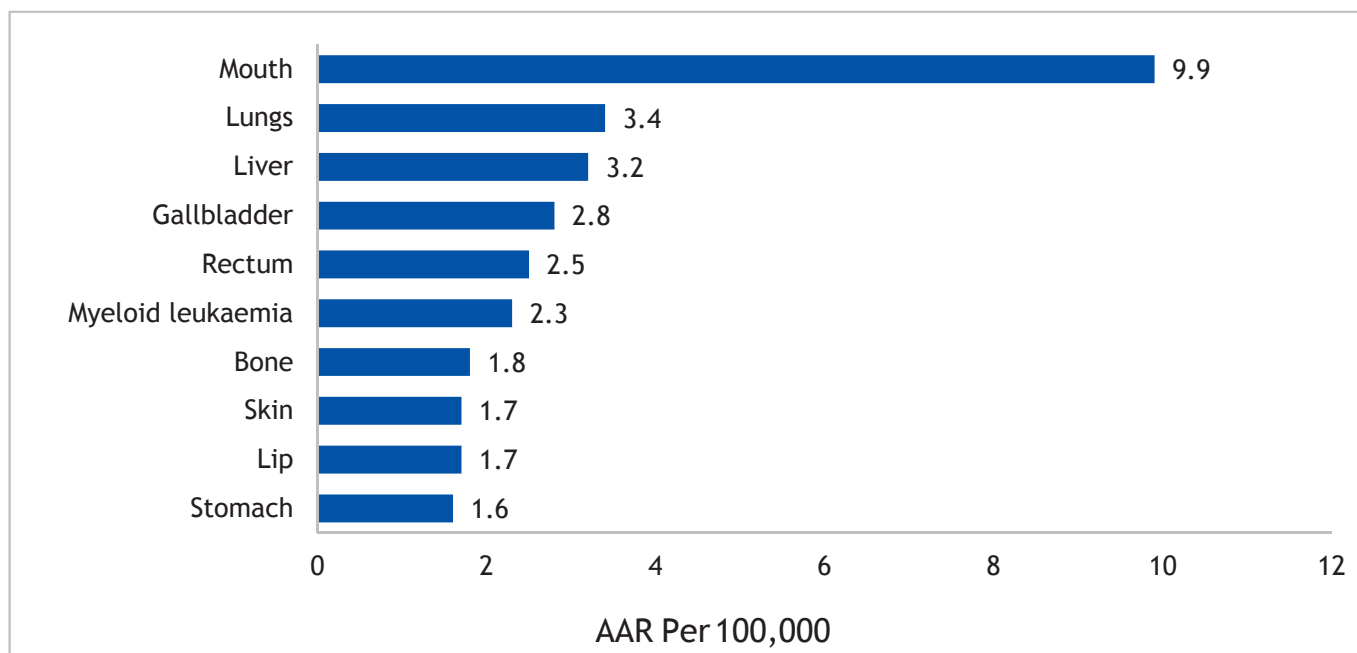


Figure 13. Leading Cancer Sites: Male, Saptari District (n=175)

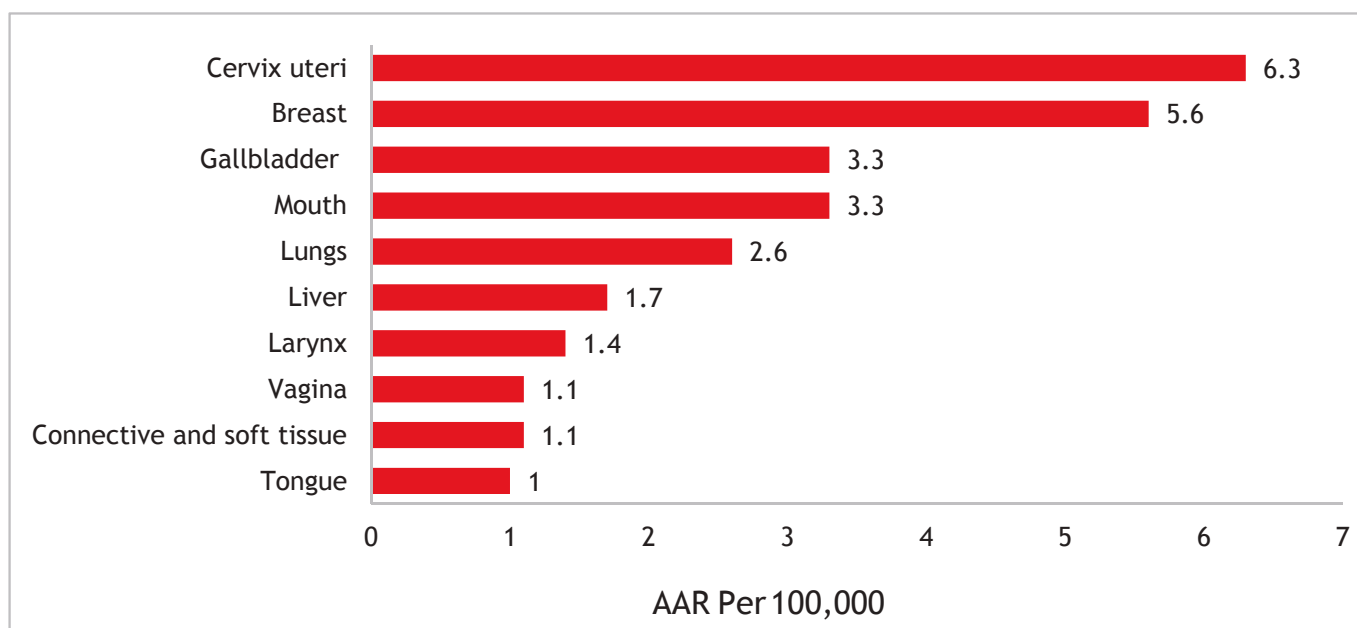


Figure 14. Leading Cancer Sites: Female, Saptari District (n=123)

In Dhanusha district, the leading sites for males were mouth, stomach, gallbladder, tongue and urinary bladder. Compared to other two districts, Siraha and Saptari, the incidence of lungs cancer was low in Dhanusha district in male. In females, the leading sites were breast, gallbladder, cervix uteri, lungs and ovary given in the figure below.

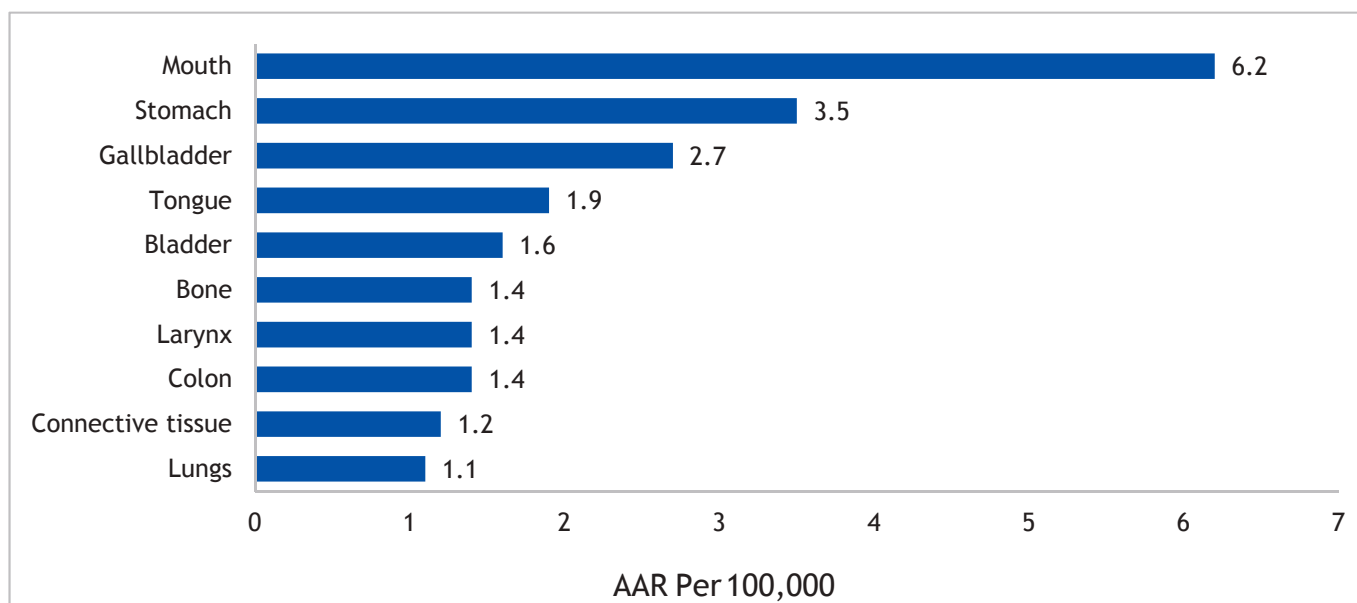


Figure 15. Leading Cancer Sites: Male, Dhanusha District (n=120)

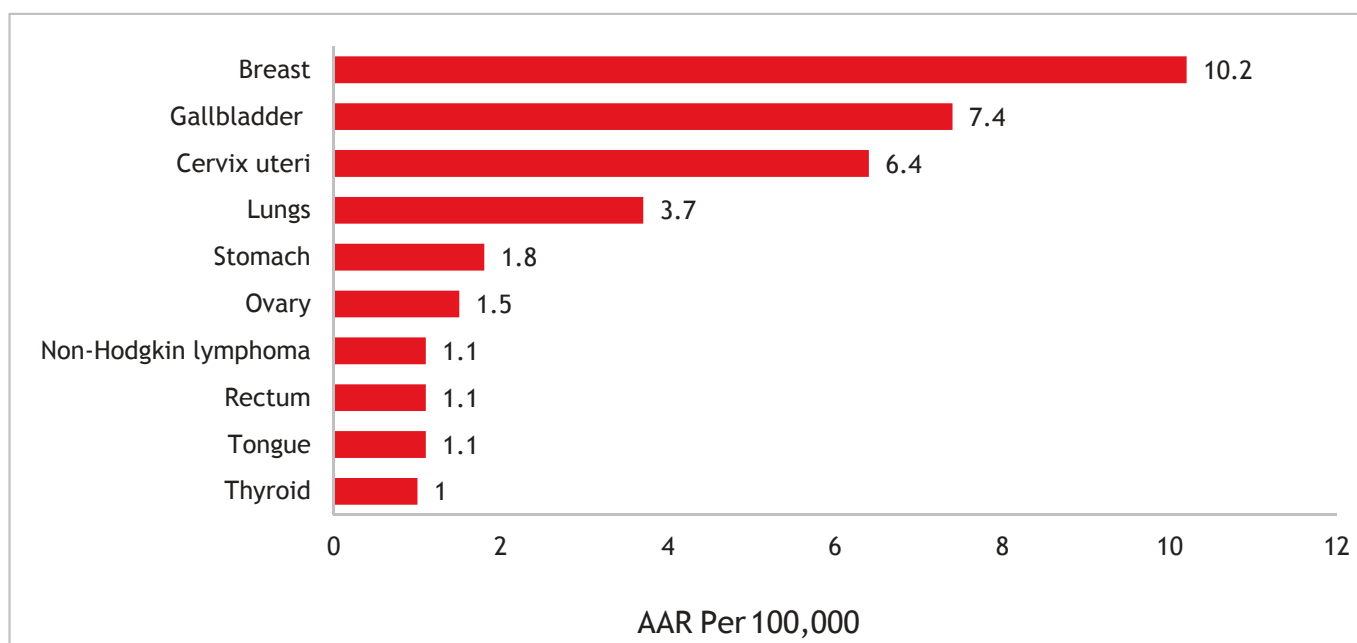


Figure 16. Leading Cancer Sites: Female, Dhanusha District (n=143)

In Mahottari district, the leading sites in male in 2018 were mouth, lungs, Non-Hodgkins Lymphoma, small intestine, tongue and gallbladder. Unlike Siraha, Saptari and Dhanusha districts, the incidence of Non-Hodgkins lymphoma was more common in Mahottari. In female the leading sites were cervix uteri, breast, lungs, gallbladder and ovary similar to other districts.

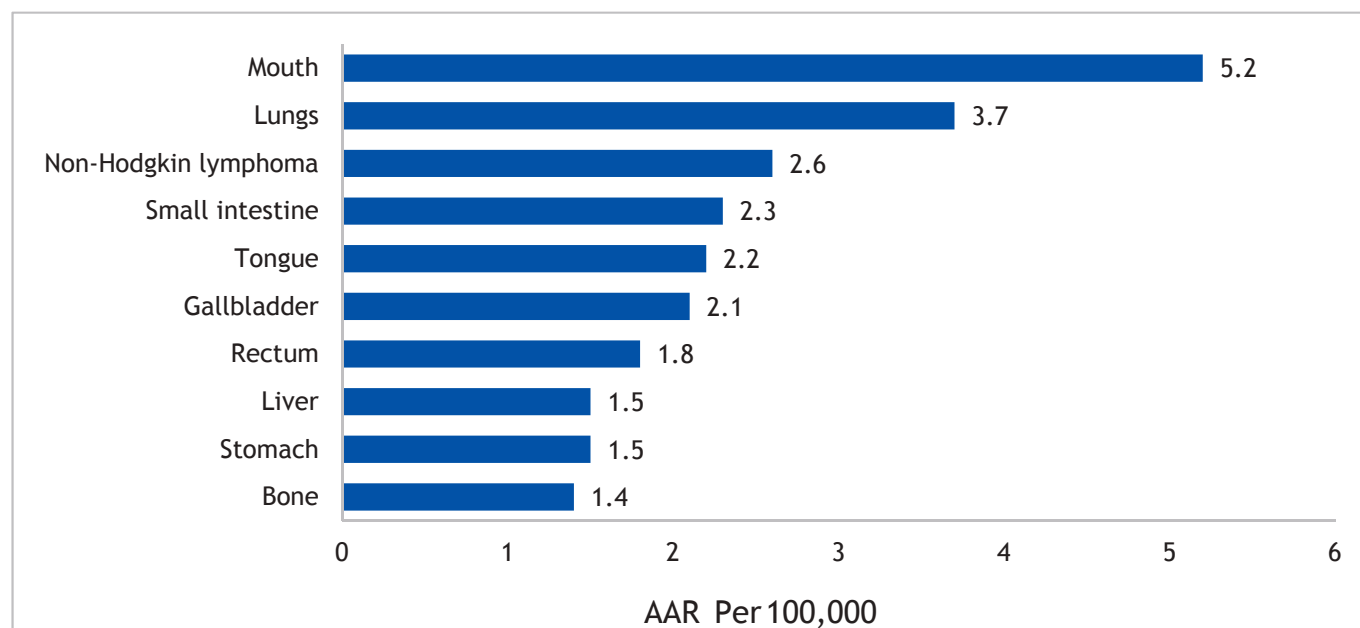


Figure 17. Leading Cancer Sites: Male, Mahottari District (n=103)

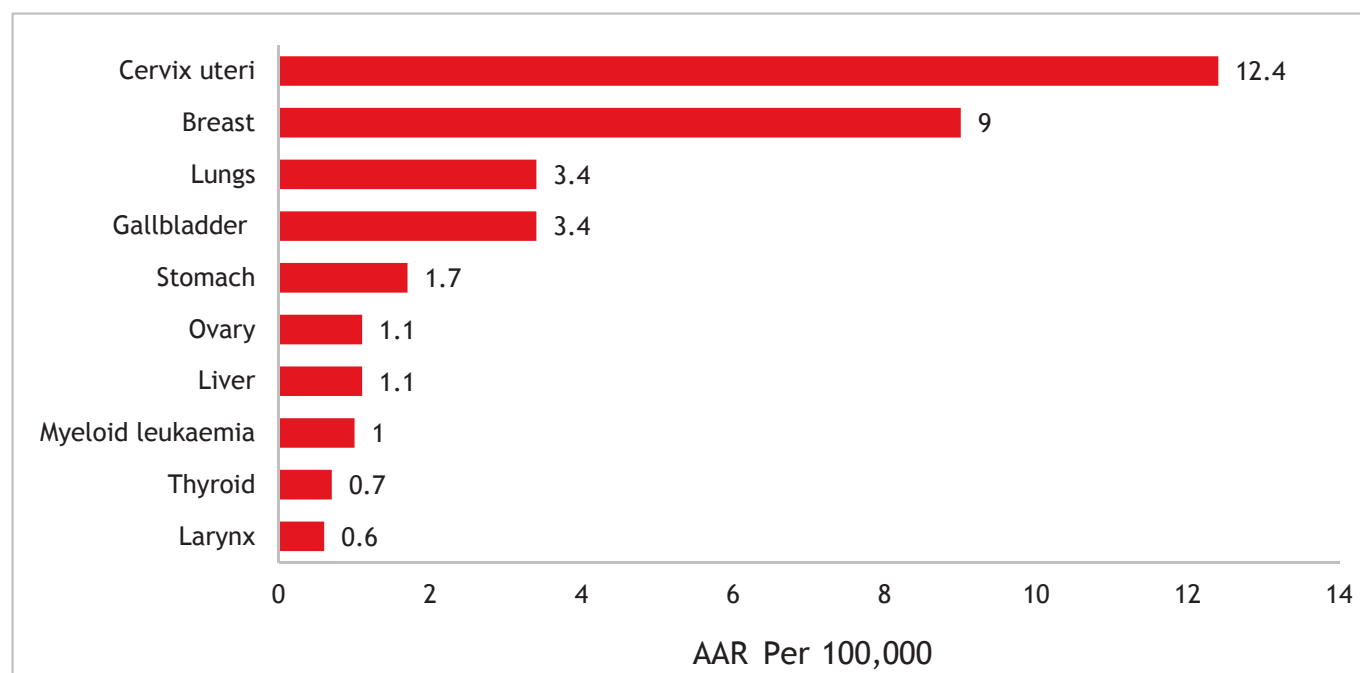


Figure 18. Leading Cancer Sites: Female, Mahottari District (n=122)

Cancer of Mouth (C03-06)

	Male	Female
Number of Cases	74	14
% of Total Cases	13.4%	2.6%
Crude Incidence Rate per 100,000 Population	5.39	0.95
Age Adjusted Incidence Rate per 100,000 Population	6.3	1.2
Truncated Rate per 100,000 Population	12.5	2.4

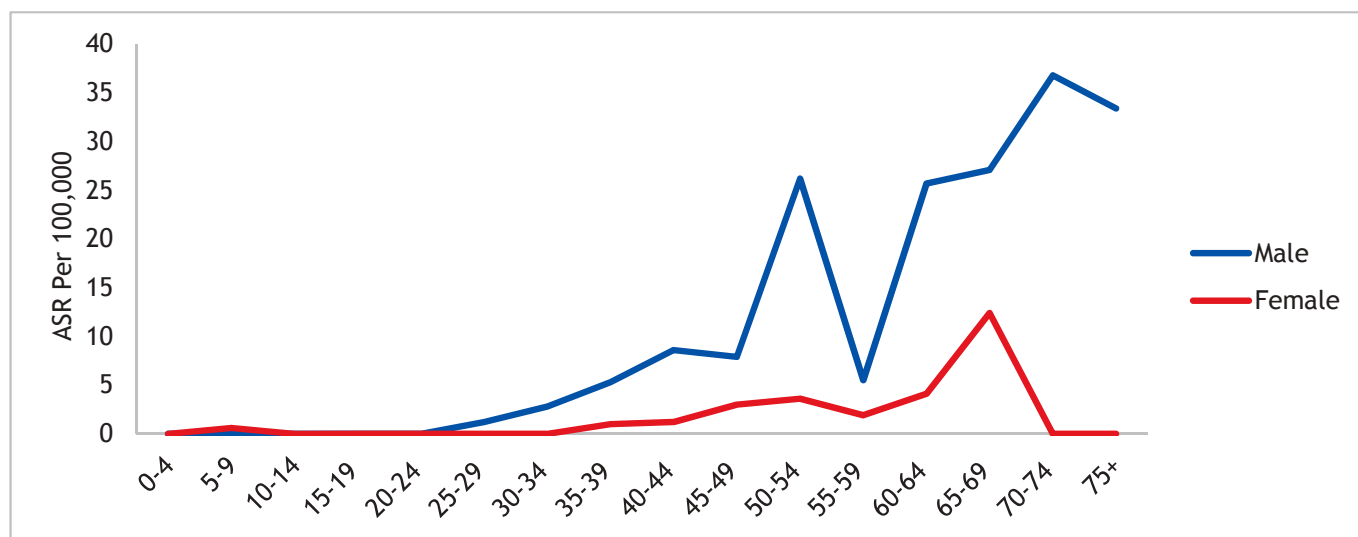


Figure 19. Age Specific Incidence Rate of Cancer of Mouth (C03-06)

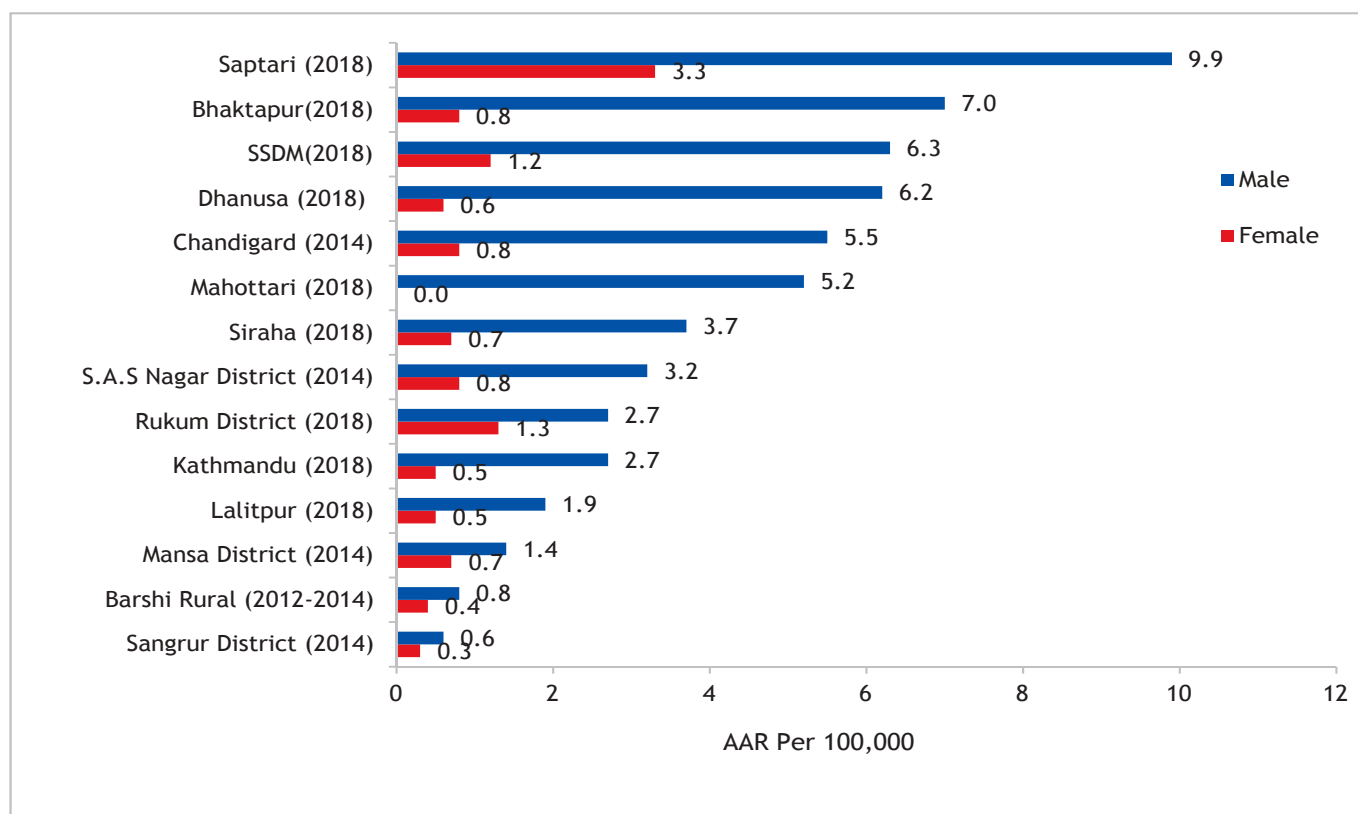


Figure 20. Comparison of Mouth Cancer Incidence with Other Neighboring Registries (1, 7-10)

Cancer of Lungs (C33-C34)

	Male	Female
Number of Cases	46	41
% of Total Cases	8.30%	7.60%
Crude Incidence Rate per 100,000 Population	3.35	2.78
Age Adjusted Incidence Rate per 100,000 Population	3.9	3.7
Truncated Rate per 100,000 Population	4.8	5.3

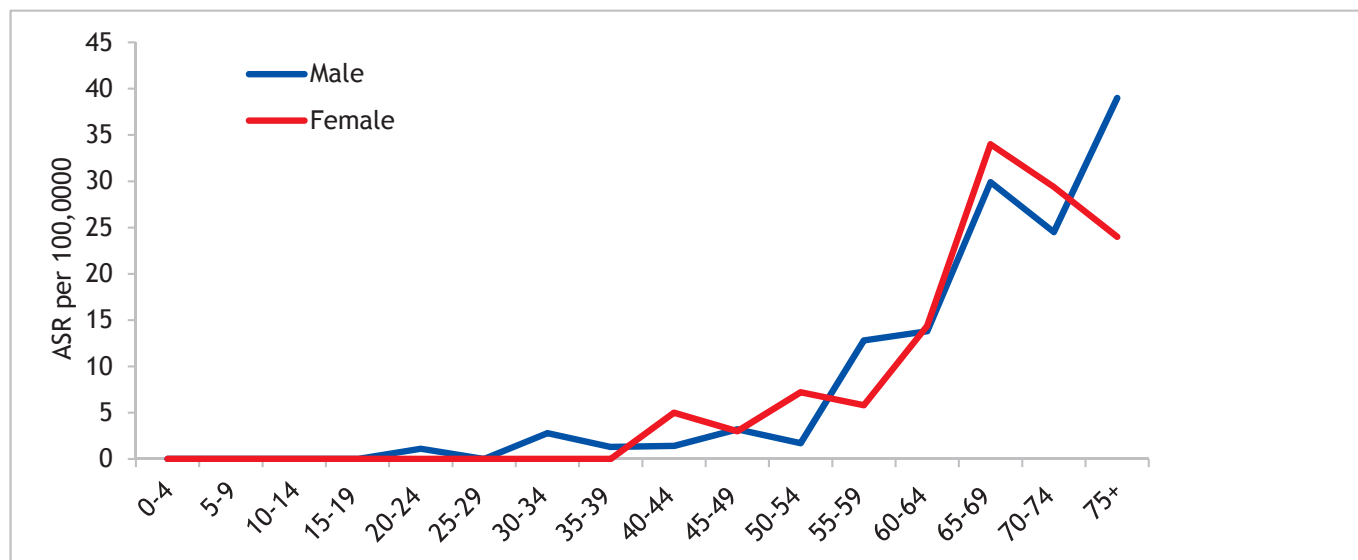


Figure 21. Age Specific Incidence Rate of Cancer of Lungs (C33-34)

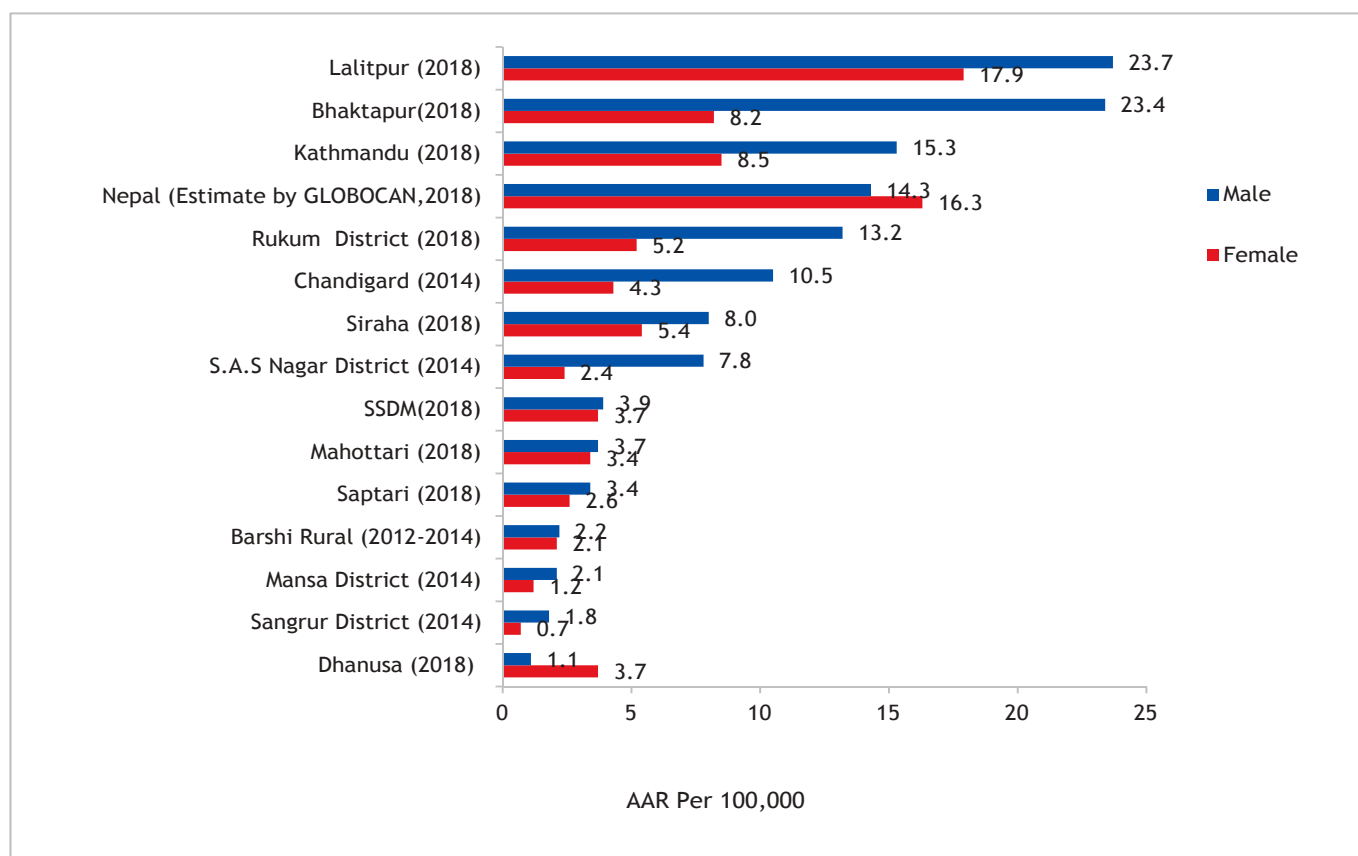


Figure 22. Comparison of Lungs Cancer Incidence with Other Neighboring Registries (1, 7-10)

Cancer of Gall Bladder (C23-24)

	Male	Female
Number of Cases	34	56
% of Total Cases	6.20%	10.40%
Crude Incidence Rate per 100,000 Population	2.48	3.8
Age Adjusted Incidence Rate per 100,000 Population	2.8	4.8
Truncated Rate per 100,000 Population	6.6	11.3

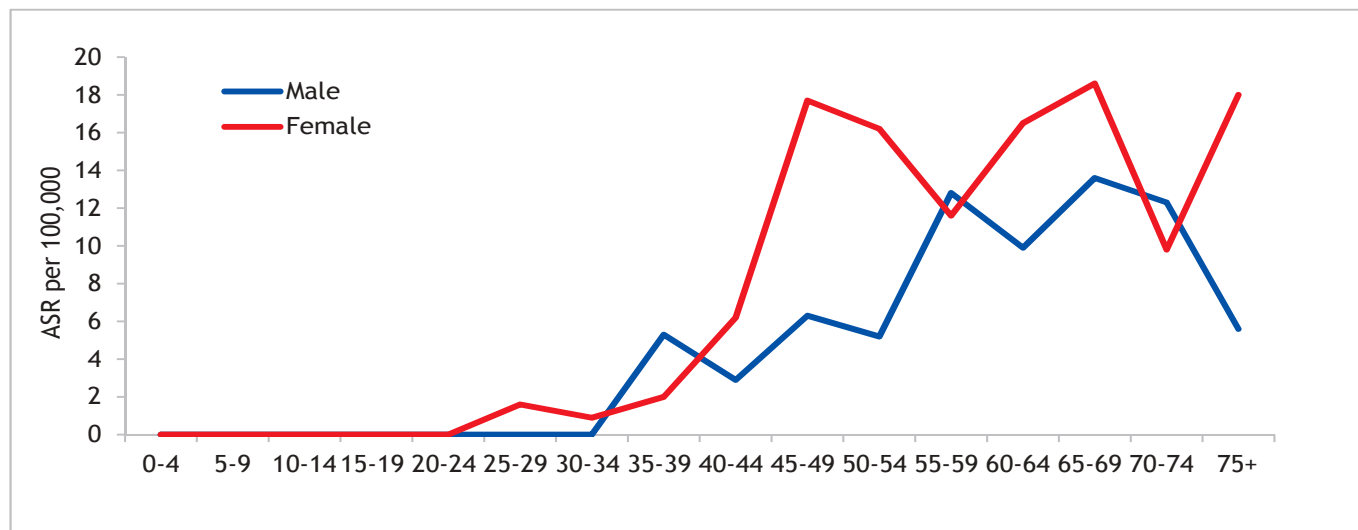


Figure 23. Age Specific Incidence Rate of Cancer of Gall Bladder (C23-24)

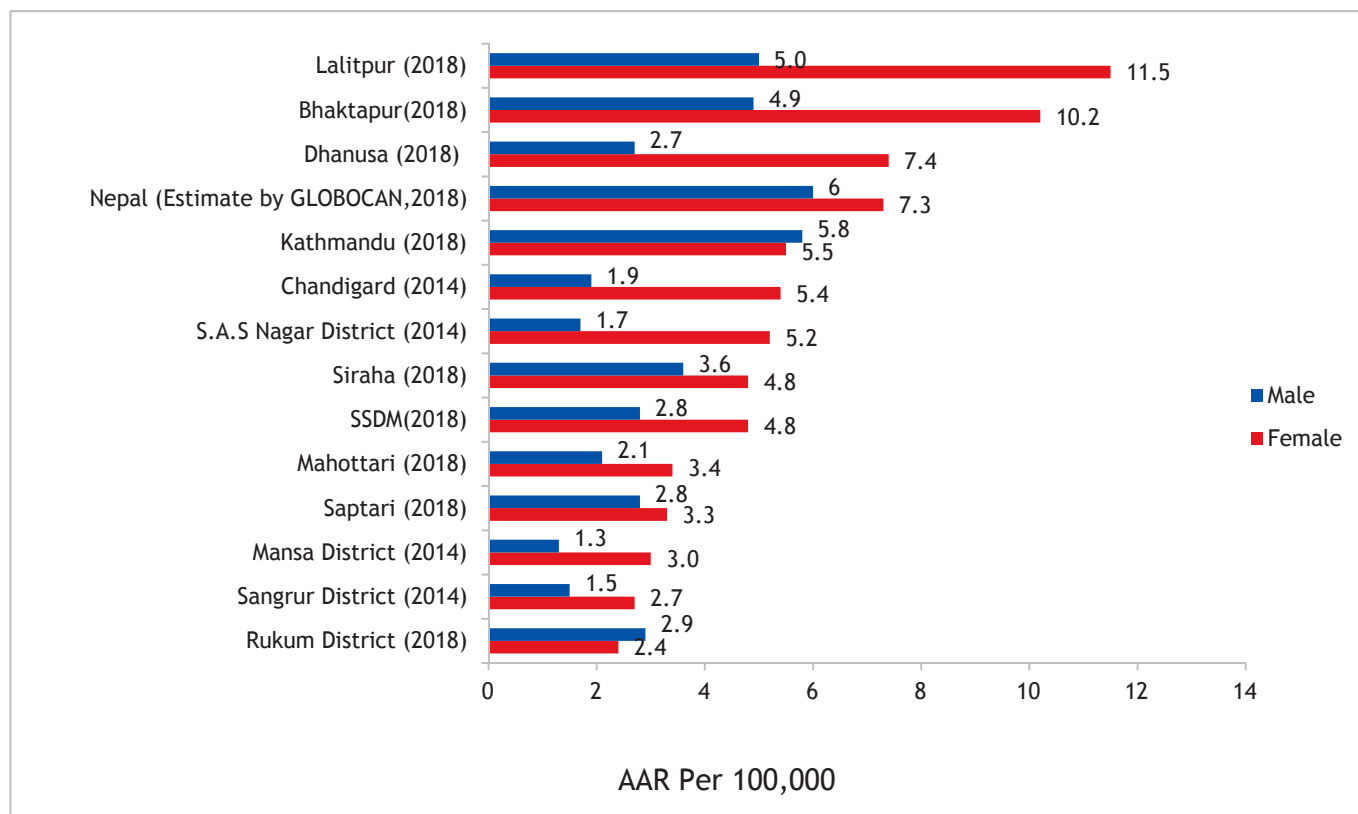


Figure 24. Comparison of Cancer of Gall Bladder Incidence with Other Neighboring Registries (1, 7-10)

Cancer of Liver (C22)

	Male	Female
Number of Cases	27	12
% of Total Cases	4.90%	2.20%
Crude Incidence Rate per 100,000 Population	1.97	0.81
Age Adjusted Incidence Rate per 100,000 Population	2.3	1.0
Truncated Rate per 100,000 Population	5.1	2.7

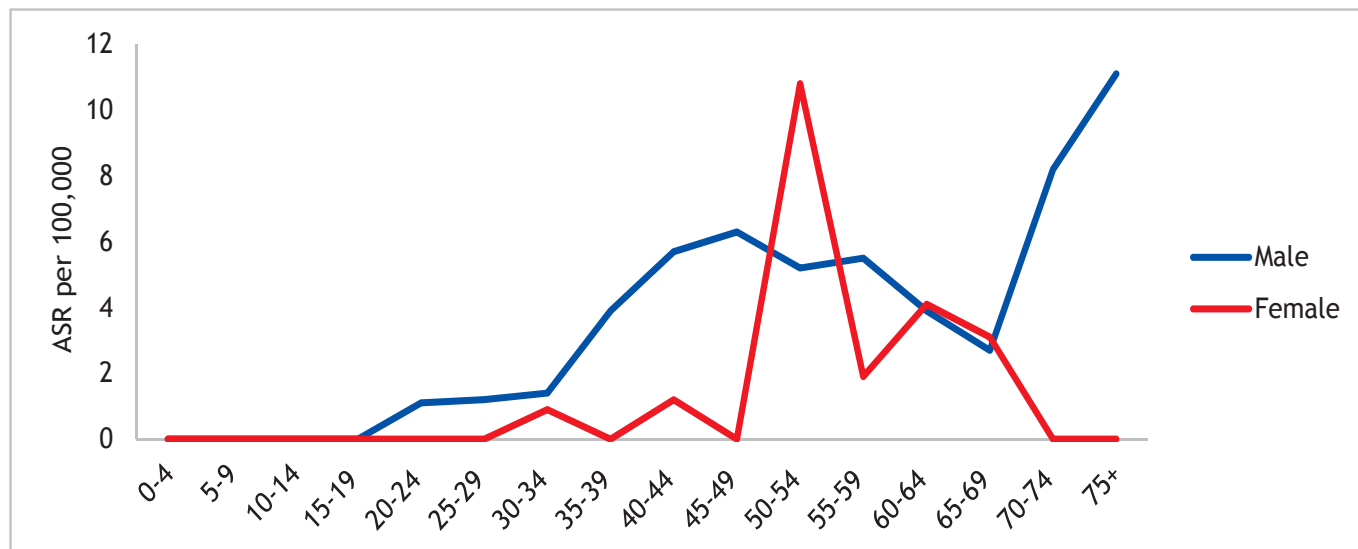


Figure 25. Age Specific Incidence Rate of Cancer of Liver (C22)

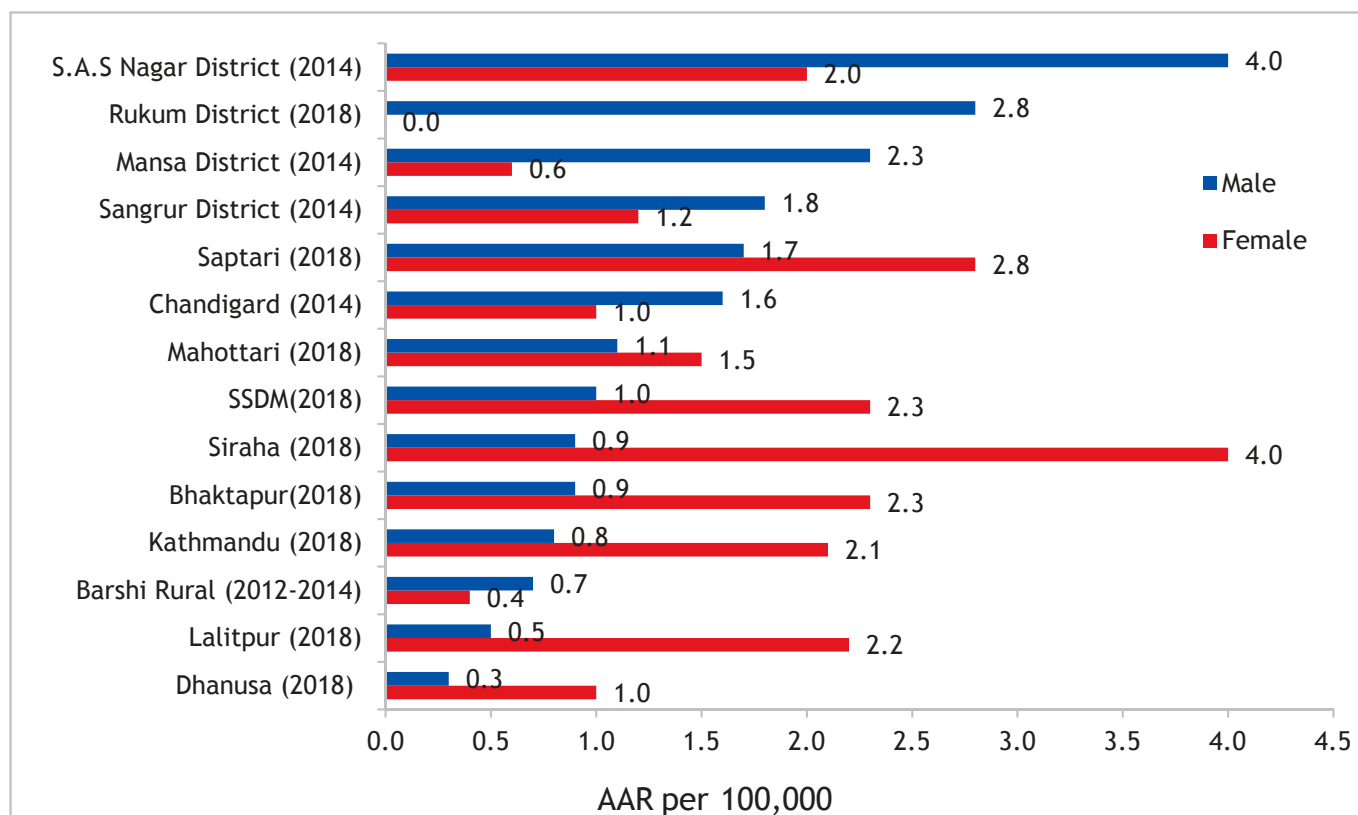


Figure 26. Comparison of Cancer of Liver Incidence with Other Neighboring Registries (1, 7-10)

Cancer of Stomach (C16)

	Male	Female
Number of Cases	24	19
% of Total Cases	4.4%	3.5%
Crude Incidence Rate per 100,000 Population	1.75	1.29
Age Adjusted Incidence Rate per 100,000 Population	2.1	1.7
Truncated Rate per 100,000 Population	4.3	3

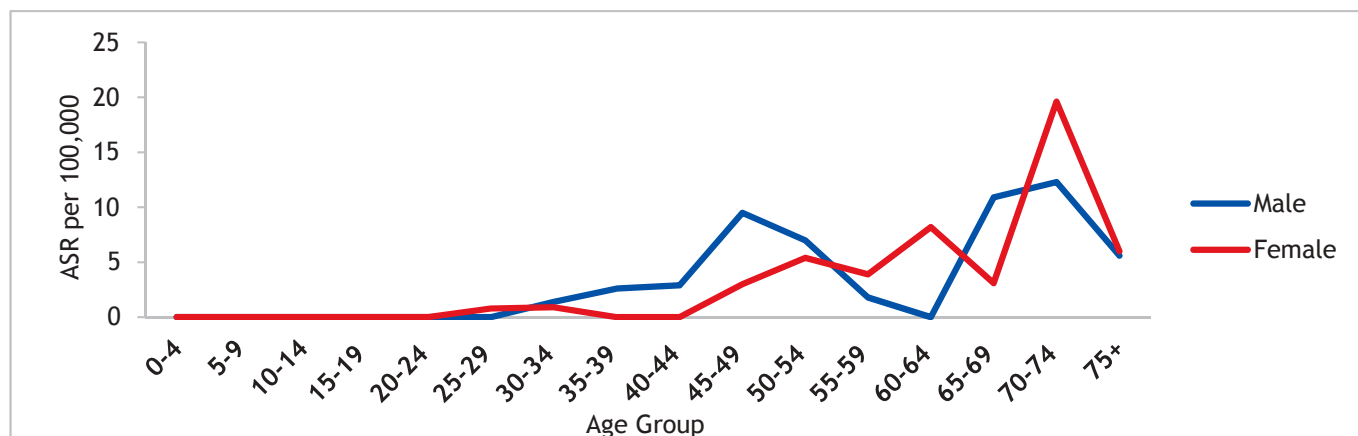


Figure 27. Age Specific Incidence Rate of Cancer of Stomach (C16)

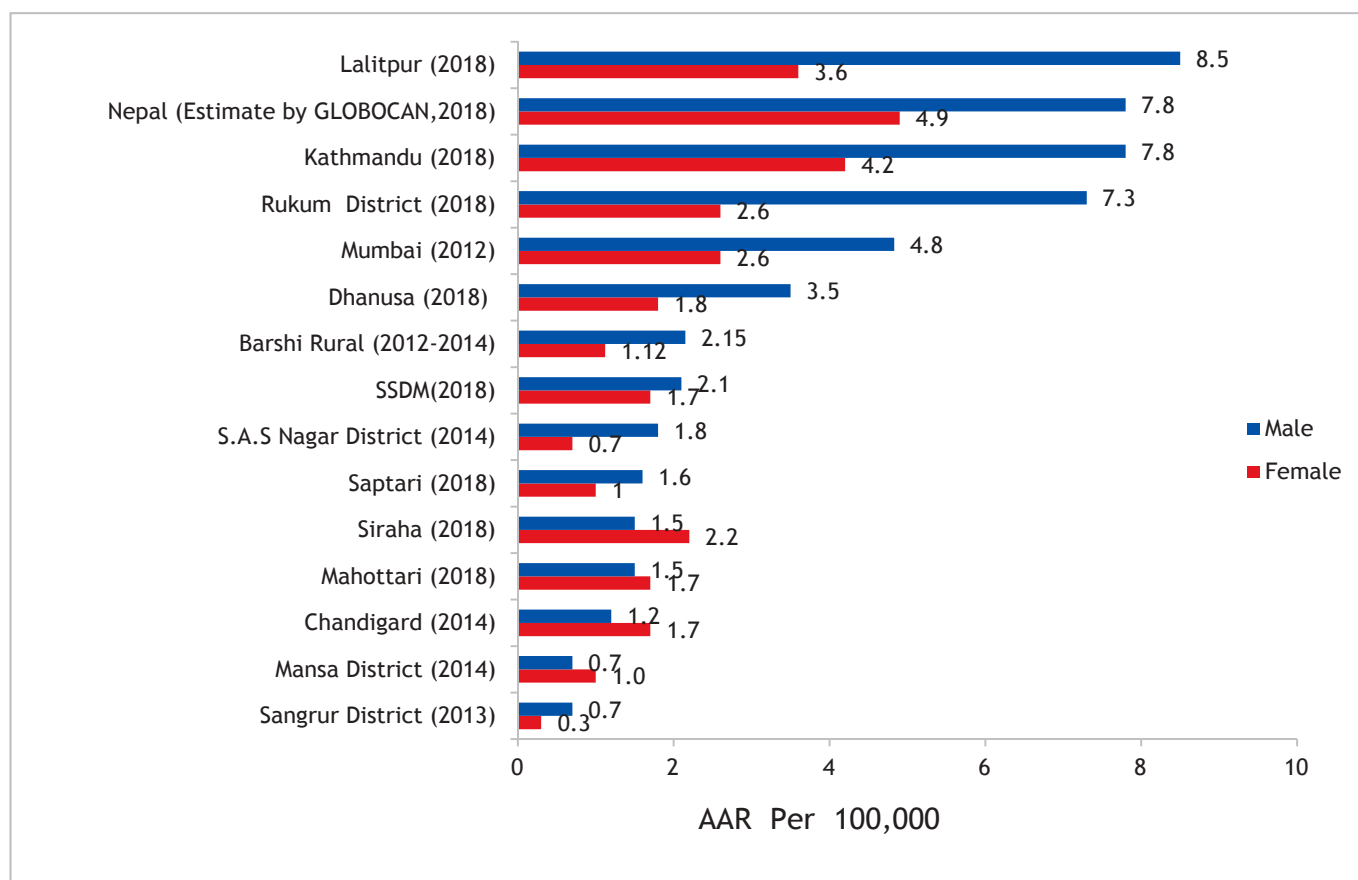


Figure 28. Comparison of Stomach Cancer Incidence with Other Neighboring Registries (1, 7-10)

Cancer of Breast (C50)

	Female
Number of Cases	112
% of Total Cases	20.90%
Crude Incidence Rate per 100,000 Population	7.6
Age Adjusted Incidence Rate per 100,000 Population	8.9
Truncated Rate per 100,000 Population	23

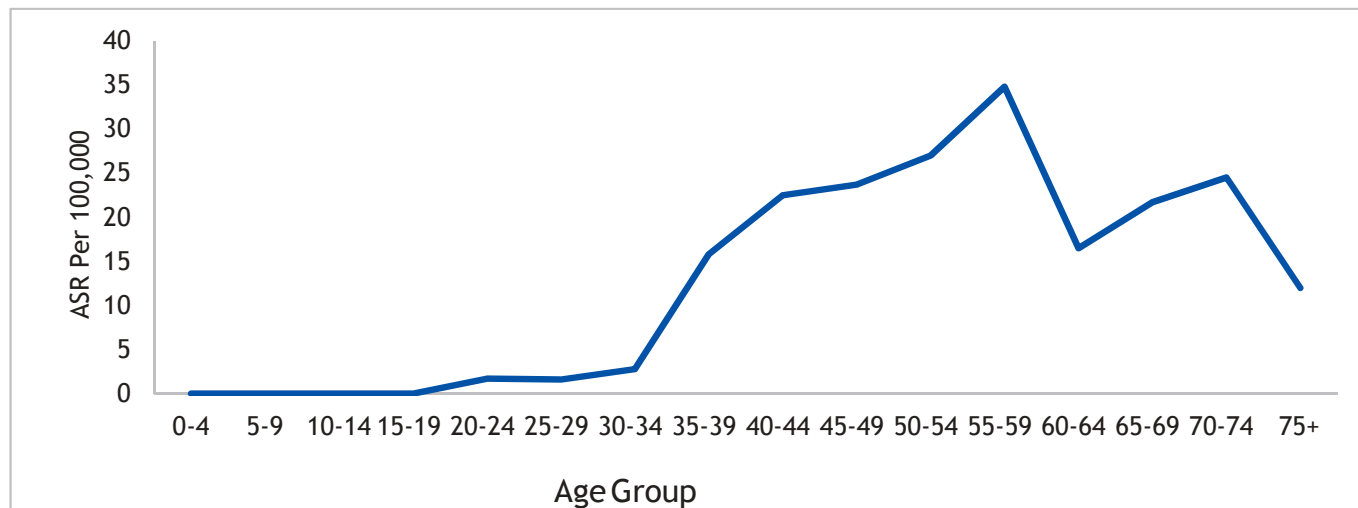


Figure 29. Age Specific Incidence Rate of Cancer of Breast (C50)

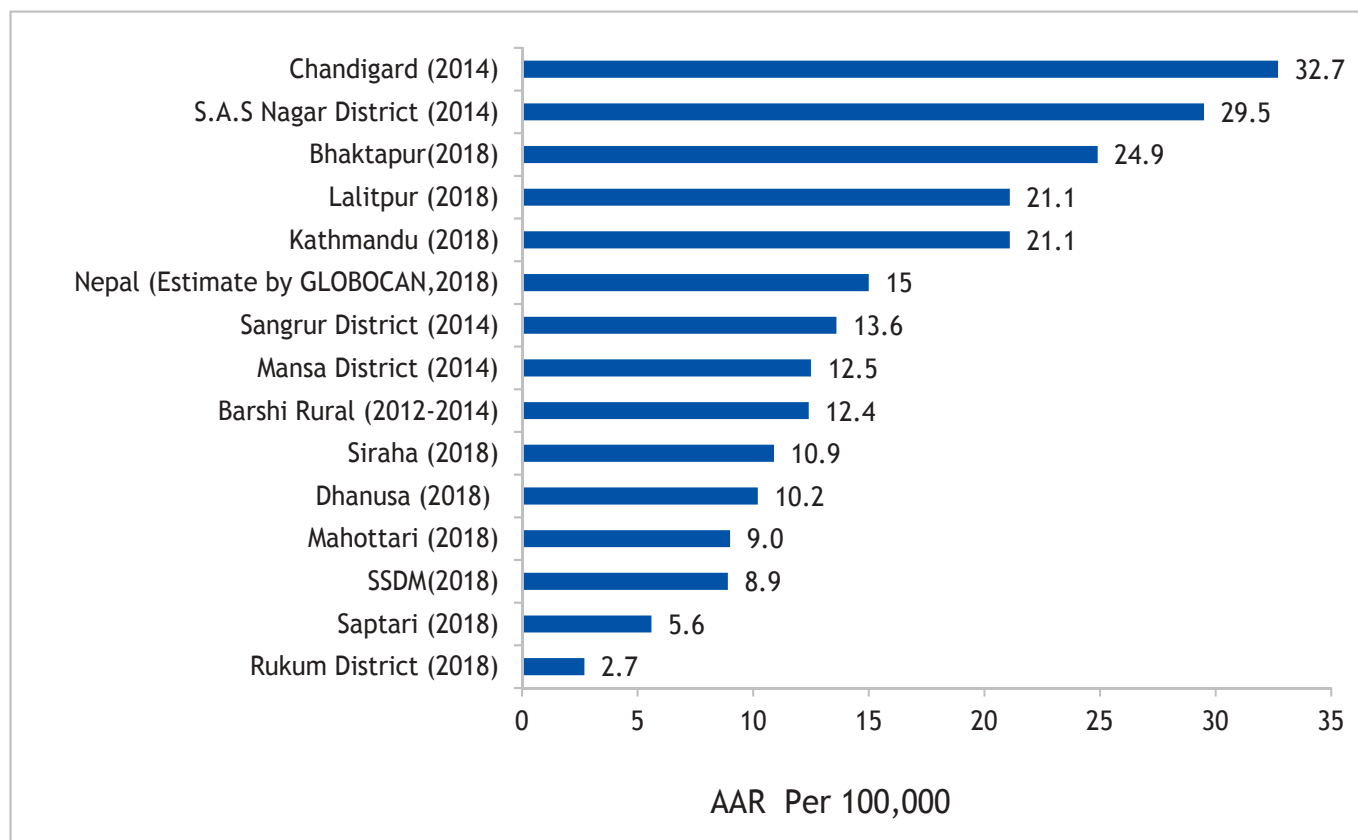


Figure 30. Comparison of Cancer of Breast Incidence with Other Neighboring Registries (1, 7-10)

Cancer of Cervix Uteri (C53)

	Female
Number of Cases	105
% of Total Cases	19.6%
Crude Incidence Rate per 100,000 Population	7.12
Age Adjusted Incidence Rate per 100,000 Population	8.7
Truncated Rate per 100,000 Population	20.7

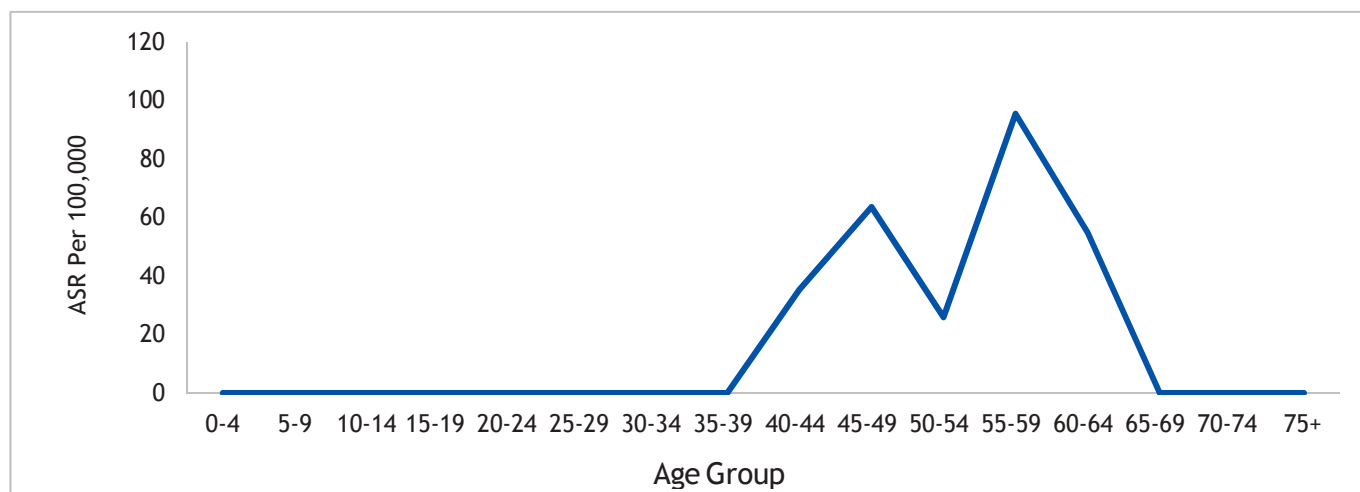


Figure 31. Age Specific Incidence Rate of Cancer of Cervix Uteri (C53)

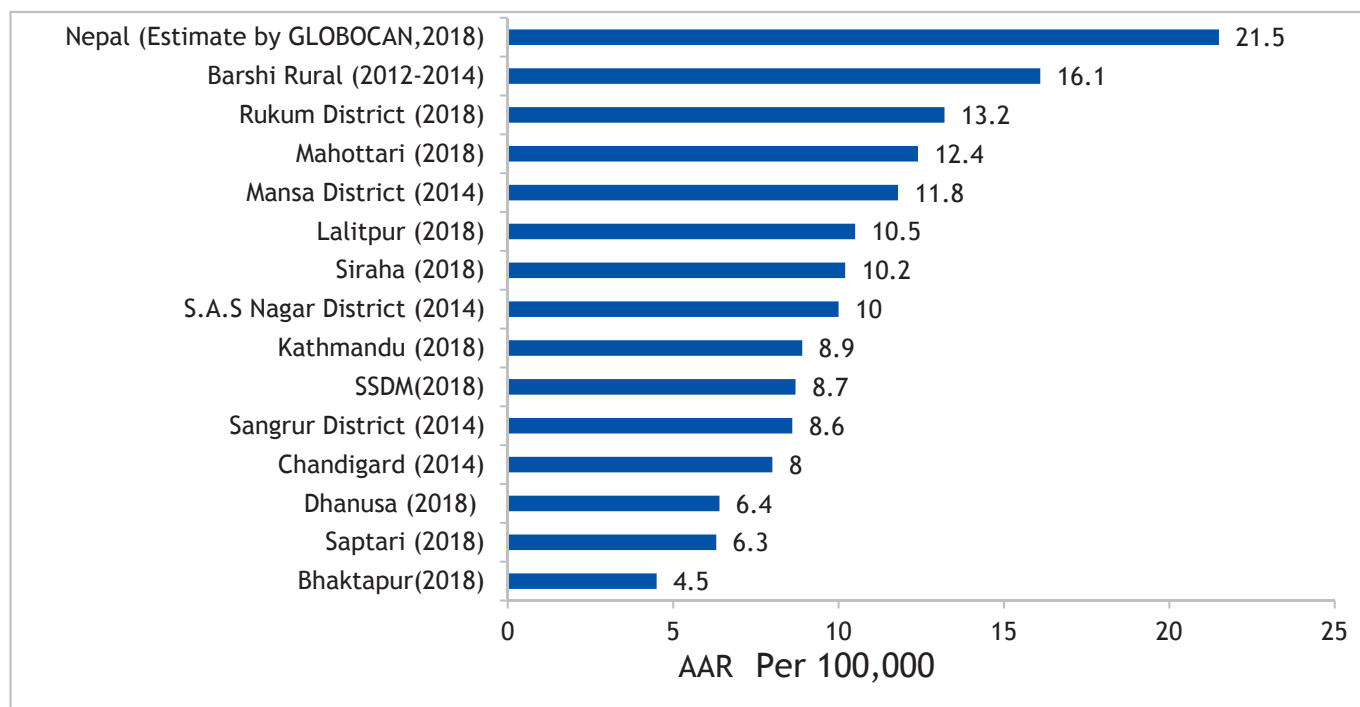


Figure 32. Comparison of Cancer of Cervix Uteri Incidence with Other Neighboring Registries (1, 7-10)

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

The other and unspecified cases in the SSDM were C26, C48, C75, C76, C77 and C80. In males, among 564 cancer cases, 56 cases were of other and unspecified sites, predominantly of primary unknown (8%). Among 542 female cases, 31 were of other and unspecified cases, out of which 24 (4.4%) cases were primary unknown. (Described in Table 7)

The primary site unknown case represents the quality of diagnostic information, availability and accessibility of diagnostic services and improper documentation of the medical records. Since there are no cancer diagnosis and treatment facilities in the SSDM districts, people usually reach to the facilities in advanced stages where, in some cases primary site could not be ruled out. Besides this for the data we have collected from patient/relatives in home visit, if they don't have doctors note or report with them, patient/relative cannot specify the exact primary site, which remains as primary unknown. Due to the absence of electronic medical record system and scientific record keeping, sometimes the patients cannot be traced out even at the hospitals. Hence, primary site unknown exists in such cases.

It has been assumed that along with improvement in record keeping and diagnostic and treatment facilities in coming years, the percentage of primary site unknown will be decreased remarkably

Table 7. Other and Unspecified Cases by Sex

ICD	Male		Female	
	Number	%	Number	%
C26	3	0.5	3	0.6
C48	0	0.0	1	0.2
C75	1	0.2	0	0.0
C76	2	0.4	1	0.2
C77	5	0.9	2	0.4
C80	45	8.0	24	4.4
Total	56	9.9	31	5.7

Cancer of Other and Unspecified Sites (O&U)

	Male	Female
Number of Cases	55	31
% of Total Cases	10.00%	5.80%
Crude Incidence Rate per 100,000 Population	4.01	2.1
Age Adjusted Incidence Rate per 100,000 Population	4.5	2.6
Truncated Rate per 100,000 Population	6.9	3.7

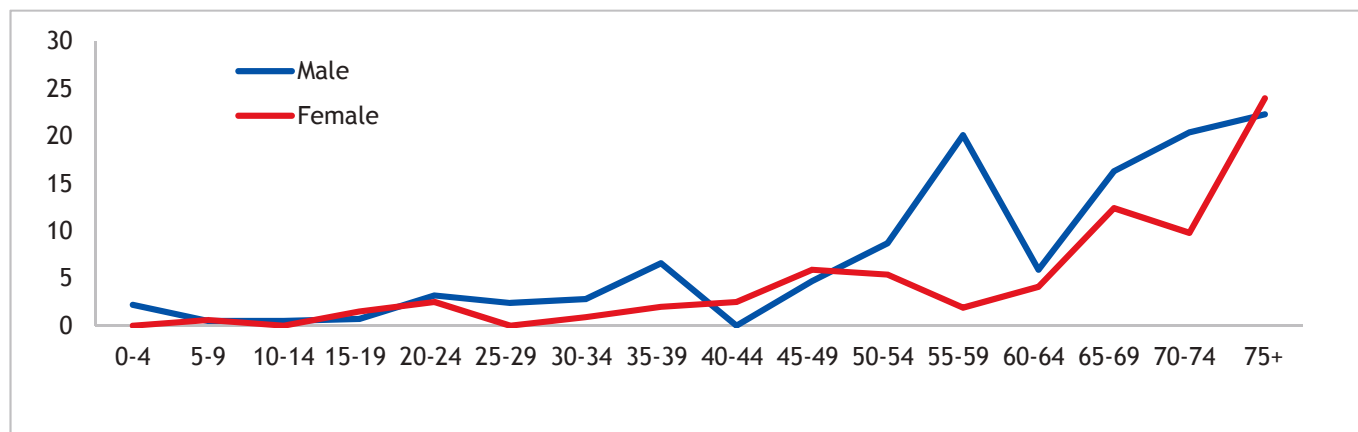


Figure 33. Age Specific Incidence Rate of Cancer of Other and Unspecified Sites (O&U)

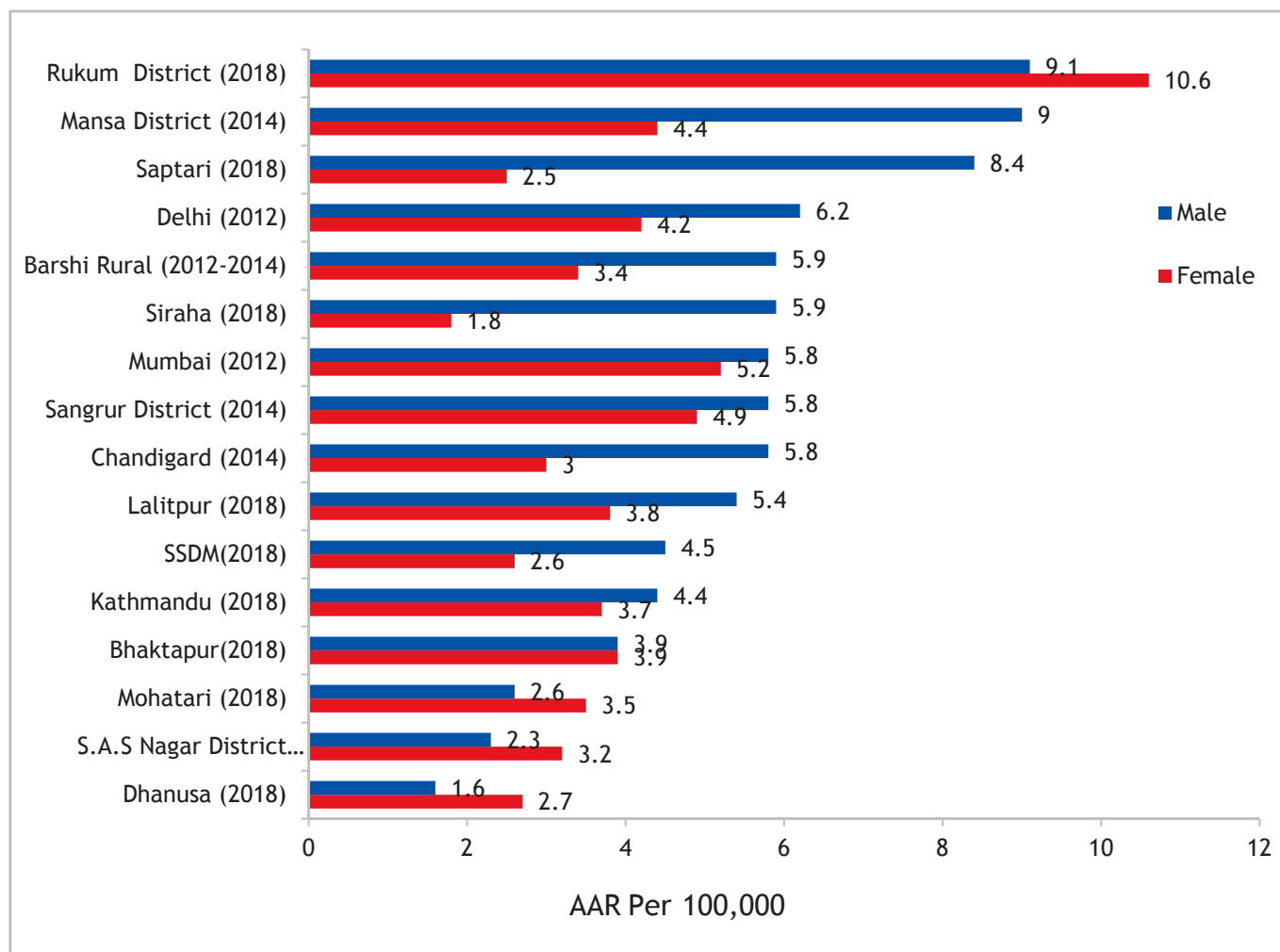


Figure 34. Comparison of Cancer of Other and Unspecified Sites Incidence with Other Neighboring Registries (1, 7-10)

Comparisons of Cancer Incidence Rate with Other Registries

The age adjusted rate for all cancer sites for both male and female of SSDM for the year 2018 is compared with the rates of various districts of Nepal, estimate given by GLOBOCAN for Nepal and some rural/urban areas of India (Figure 34 and 35). The AAR for males and females both in SSDM is less than the estimated rate of GLOBOCAN for Nepal and India, as well as urban areas of Nepal. However, it is comparable to the rural areas of India and Nepal.

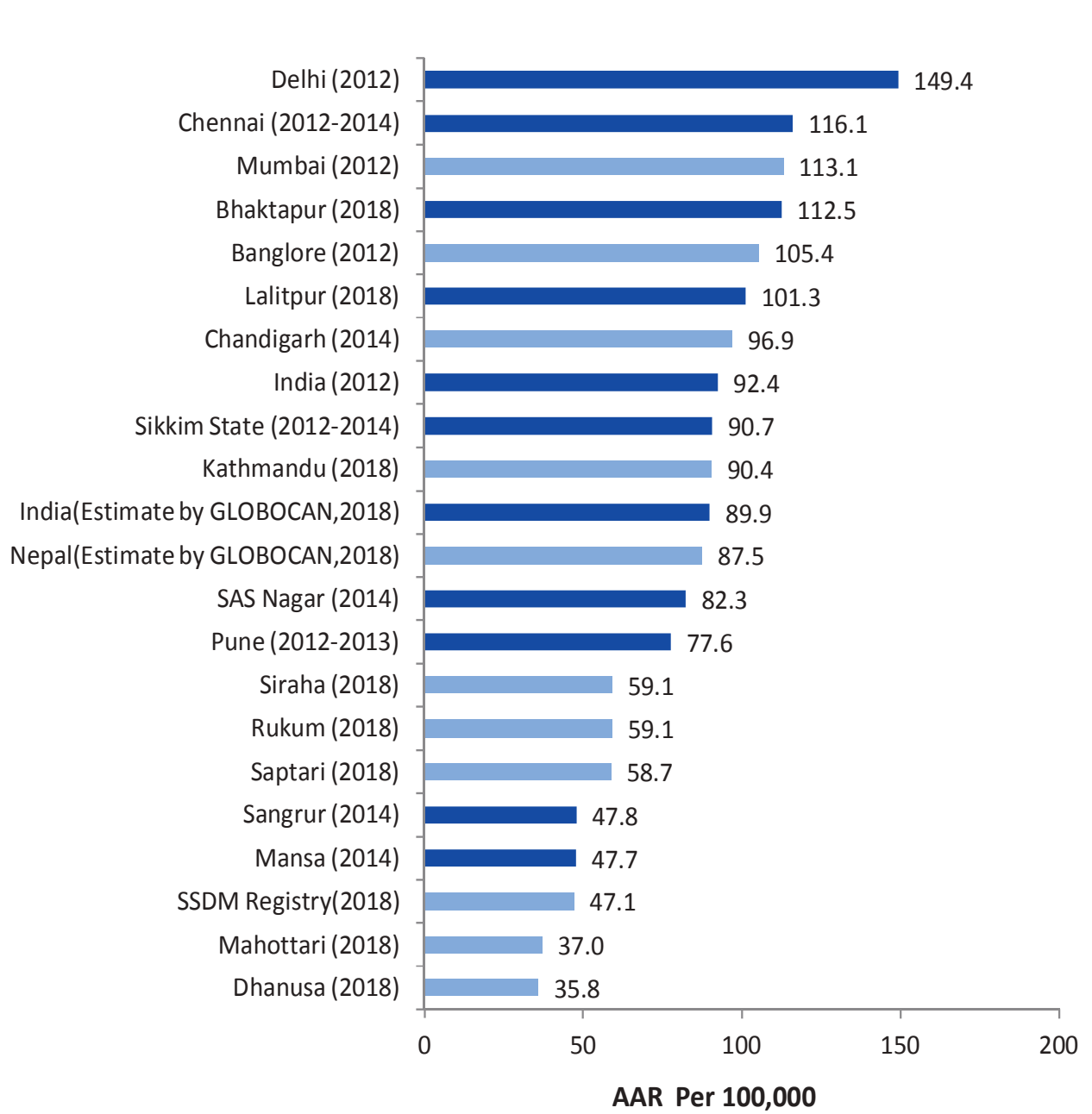


Figure 35. Age Adjusted Incidence Rate of All Cancer Sites in Males (1, 7-12)

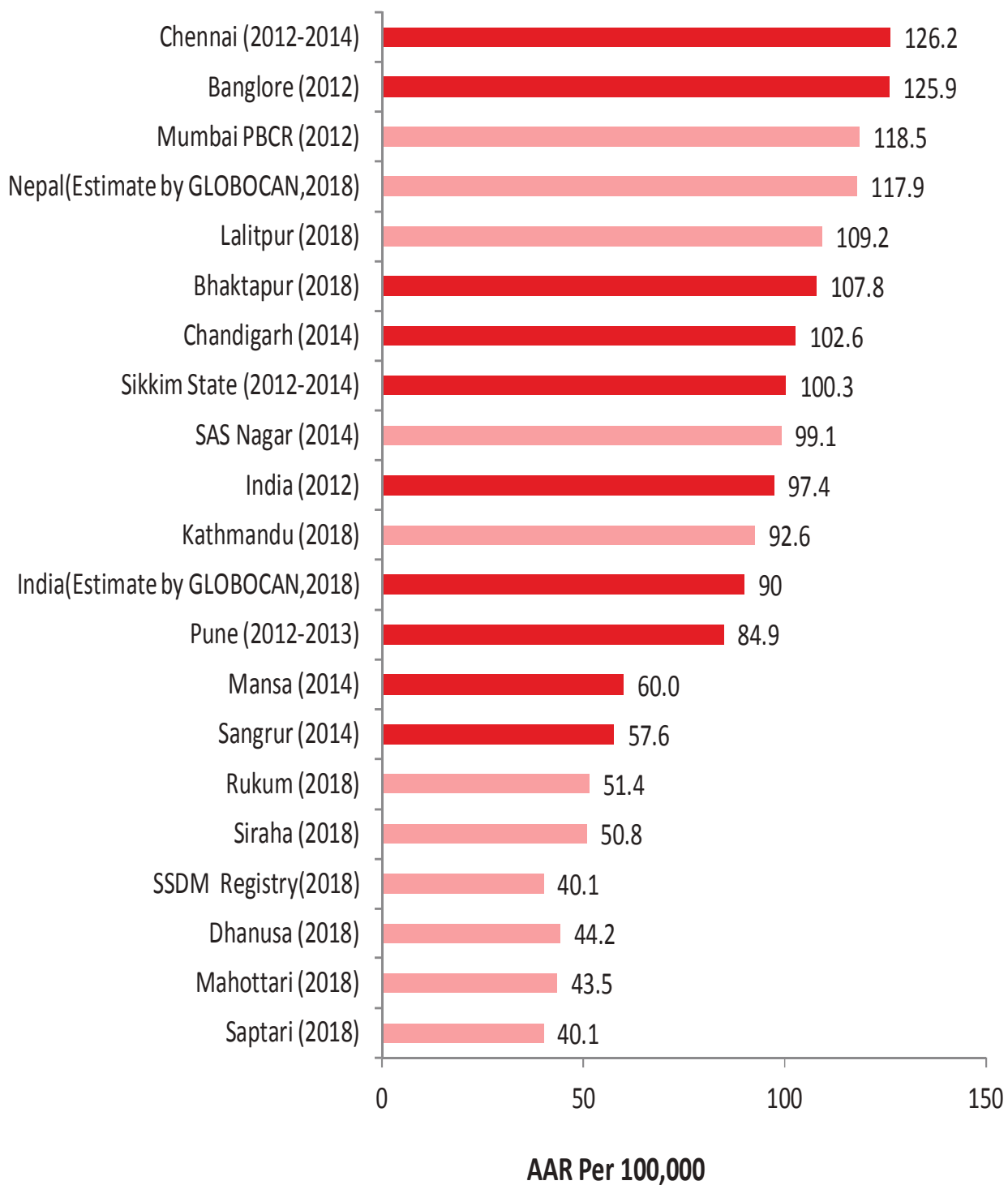


Figure 36. Age Adjusted Incidence Rate of All Cancer Sites in Females (1, 7-12)

Challenges of Establishing Cancer Registry

Establishment of population based cancer registry is a big challenge for semi urban areas where there are no specialized health facilities. In order to initiate the PBCR, cancer diagnostic as well as treatment center with well-managed recording system is highly required. Unfortunately, the SSDM lacks these facilities posing challenge to trace and find the cancer patients with their full diagnosed details at the initial phases.

Until recently, the SSDM registry had undergone through various strategies to collect data on cancer cases. Many practices were adopted, results were checked and some alternatives were planned and implemented. As the first step of registry, the data collection from facilities for SSDM registry had begun, however, the collected cases were very limited as compared to the estimated rates. Thus, local government resource persons like health coordinators, health post in-charges and FCHVs were contacted, informed and trained on the PBCR. The reporting of the cases from the resource persons worked to some extent, but, the required information for the registry couldn't be achieved. The way of data collection also demanded excessive follow up to the resource persons, which sometimes created difficult situation for both parties.

Since the failure of the required data collection through the resource persons, another method was adopted in which the field enumerators were recruited, trained and mobilized in the communities to collect data of cancer patients. The enumerators visit each wards of urban/rural municipalities in the districts so that any cancer cases aren't missed.

While obtaining data from the community, most of the patients didn't have their diagnosis and treatment reports, and thus the date of diagnosis and primary site of cancer relied on the verbal information by the patients. Similarly, in the death cases and absentee patients, the information was based on relatives' verbal information enabling the chances of recall bias. However, the verbal information was linked with information available at the hospitals they visited. But it was not always easy and available to link the information because of the poor record keeping system at the hospitals.

Non-responding behavior of the patients/relatives and the long waiting time to obtain the information from the patients due to their household chores were other challenges. As the awareness level of the patients regarding their own disease was very low, it was difficult to identify the actual clinical diagnosis, primary site, morphology and treatment taken. Another major issue arises due to social stigma that the patients and relatives hide the cancer cases in the threat of being exposed in the community. Though the field staffs had been mobilized repeatedly in the fields to confirm the cases as per the estimated population, the result didn't change. So, the real cause of underreporting of the cases are yet to be identified whether it is due to underdiagnosis or social stigma or non-recognition of the sources or any other reasons.

Recommendations

For strengthening the PBCR and proper utilization of the findings obtained through the registry following recommendations have been made:

1. We suggest and recommend Ministry of Health and Population (MoHP) to develop the national cancer control strategy which is an urgent and important need of the time.
2. Based on the findings of the PBCR, data intervention programs should be planned and launched in various regions of the country focusing on the special cancer site for that region. Concerned Provincial authority should be engaged in planning and intervention of the programs.
3. Establishment of a separate cancer wing in the MoHP to look after all the issues related to cancer.
4. As the registry finds mouth cancer leading in males, existing awareness program needs to be strengthen to encourage smoking/tobacco cessation. Information Technology (IT) based and community based interventions for “quit tobacco” is a good tool for this.
5. In females, breast cancer and cervix uteri was found to be common. Thus government of Nepal as well as concern authority should give priority for the breast cancer awareness, screening and early detection to reduce the future burden of breast cancer in Nepal.
6. As Cervical Cancer is one of the cancers amenable for all level of prevention and is the priority of Nepal Government, activities like awareness, screening, vaccination, prevention, early detection and treatment need to be carried out in a systematic manner to cover the maximum population across the country.
7. Establishment of early detection centers are highly recommended in SSDM districts.
8. Government should focus towards digitalization of uniformed medical recording system with some mandatory variable in all government and private health facilities. This will help to minimize work duplicate and save both human and financial resources at national level.
9. Death is one of the vital statistics, which is also linked with human development index of the country, however, collecting death information is quite challenging in Nepal. Thus, government should give emphasis towards strengthening the death recording system including cause of death.
10. Survival studies to be undertaken. Similarly, it is recommended to do a cross sectional survey in order to check the completeness of registry data especially in the SSDM districts.

Description of Statistical Terms Used

Incidence: Cancer incidence denotes new cancer cases diagnosed in a defined population in a specified time period. For this report, all cancer cases were diagnosed from 1st January 2018 to 31st December 2018 in the SSDM districts.

Mortality: Cancer mortality is defined as the number of cancer deaths occurring in a defined population and geographic area, during a particular year(s) per 100,000 population. All cancer deaths between 1st January 2018 to 31st December 2018 in SSDM districts were included. Rates: Rates for cancer are always expressed per 100,000 population.

Crude Incidence Rate: The crude incidence rate is the rate at which new cases occur in a population during a specific period. $CR = \text{Number of new cancer cases observed in the period 2018} \times 100000 \text{ estimated population of the same year}$. This rate is called crude because it relates to each population as a whole and is influenced by the age structure of each population.

Age Specific Rate: 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 period and multiplied by 100,000.

Age Adjusted or Age Standardized Rate (AAR/ASR): 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 overtime.

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

Standard Registry Table

Table 7. Number of Incidence Cancer by Five Year Age Group and Site (ICD 10): 2018-Male SSDM

ICD 10	SITE	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	1	2	-	7	1.3
C01-02	Tongue	-	-	-	1	1	1	3	2	3	-	1	4	3	1	-	-	20	3.6
C03-06	Mouth	-	-	-	-	-	1	2	4	6	5	15	3	13	10	9	6	74	13.4
C07-08	Salivary glands	-	-	-	-	-	-	1	-	-	-	-	2	-	1	1	-	5	0.9
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	Other oropharynx	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	0.2
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	2	0.4
C12-13	Hypopharynx	-	-	-	-	-	-	-	-	-	1	-	-	2	3	-	-	6	1.1
C14	Pharynx unspecified	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	0.2
C15	Oesophagus	-	-	-	-	-	-	-	1	1	1	1	-	2	1	1	-	8	1.5
C16	Stomach	-	-	-	-	-	-	1	2	2	6	4	1	-	4	3	1	24	4.4
C17	Small intestine	-	-	-	-	-	-	1	2	-	1	2	-	-	2	-	1	9	1.6
C18	Colon	-	-	-	-	1	3	2	1	1	-	1	-	4	-	2	-	15	2.7
C19-20	Rectum	-	-	-	1	1	1	-	1	2	2	3	2	1	3	1	2	20	3.6
C21	Anus	-	-	-	-	1	1	-	-	-	-	-	1	-	-	-	-	3	0.5
C22	Liver	-	-	-	-	1	1	1	3	4	4	3	3	2	1	2	2	27	4.9
C23-24	Gallbladder etc.	-	-	-	-	-	-	-	4	2	4	3	7	5	5	3	1	34	6.2
C25	Pancreas	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	3	0.5
C30-31	Nose, sinuses etc.	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	2	0.4
C32	Larynx	-	-	-	-	-	-	-	-	-	2	-	2	3	4	1	2	14	2.5
C33-34	Trachea, bronchus and lung	-	-	-	-	1	-	2	1	1	2	1	7	7	11	6	7	46	8.3
C37-38	Other thoracic organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	Bone	1	-	1	1	-	4	1	1	2	1	-	1	3	1	3	-	20	3.6
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	0.2
C44	Other skin	-	-	-	-	-	-	1	2	-	-	1	3	1	1	1	3	13	2.4
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	1	-	-	-	1	-	1	2	-	-	-	-	1	1	1	2	10	1.8
C50	Breast	-	-	-	-	-	-	2	-	-	-	-	1	2	-	-	-	5	0.9
C60	Penis	-	-	-	-	-	-	1	-	1	-	-	2	5	3	1	1	14	2.5
C61	Prostate	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	1	11	2
C62	Testis	-	-	-	-	-	-	1	1	-	1	-	1	-	-	1	-	5	0.9
C63	Other male genital organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	1	-	-	1	-	-	-	-	1	-	3	-	1	3	1	-	11	2
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.2
C66	Ureter	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	0.2
C67	Bladder	-	-	-	-	-	-	-	-	1	1	1	1	3	2	2	4	14	2.5
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2	0.4
C69	Eye	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3	0.5
C70-72	Brain, nervous system	1	-	4	-	1	1	-	4	-	1	1	1	-	-	-	-	14	2.5
C73	Thyroid	-	-	1	-	1	2	-	-	-	-	-	-	1	-	-	-	5	0.9
C74	Adrenal gland	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	0.2
C75	Other endocrine	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	0.2
C81	Hodgkin disease	1	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	4	0.7
C82-85,C96	Non-Hodgkin lymphoma	1	1	2	1	2	1	1	-	2	2	-	1	1	-	-	-	15	2.7
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	-	-	-	-	1	2	2	-	1	-	1	-	7	1.3
C91	Lymphoid leukemia	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	5	0.9
C92-94	Myeloid leukemia	1	1	-	1	-	3	1	5	3	-	-	-	-	-	-	-	15	2.7
C95	Leukemia unspecified	2	-	1	1	1	-	1	2	-	1	-	1	-	-	-	-	10	1.8
MPD	Myeloproliferative disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MDS	Myelodysplastic syndromes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*O&U	Other and unspecified	3	1	1	1	3	2	2	5	-	3	5	11	3	6	5	4	55	10
ALL	All sites	14	7	12	9	15	21	26	44	35	43	51	61	68	68	52	38	564	102
ALLbc44	All sites but C44	14	7	12	9	15	21	25	42	35	43	50	58	67	67	51	35	551	100

%=Relatives Proportion of Cancer of All Sites; *O & U includes the sites (ICD-10: C26, C48, C75, C76, C77, C80)

Table 8. Number of Incidence Cancer by Five Year Age Group and Site (ICD 10): 2018-Female SSDM

ICD 10	SITE	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C01-02	Tongue	-	-	-	-	-	-	-	1	1	1	1	5	-	-	-	-	9	1.7
C03-06	Mouth	-	1	-	-	-	-	-	1	1	2	2	1	2	4	-	-	14	2.6
C07-08	Salivary glands	-	-	1	-	1	1	1	-	-	-	-	-	-	-	-	-	4	0.7
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	0.2
C10	Other oropharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13	Hypopharynx	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	0.2
C14	Pharynx unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C15	Oesophagus	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.2
C16	Stomach	-	-	-	-	-	1	1	-	-	2	3	2	4	1	4	1	19	3.5
C17	Small intestine	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	0.4
C18	Colon	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	3	0.6
C19-20	Rectum	-	-	-	-	2	-	1	2	1	-	-	1	-	2	-	-	9	1.7
C21	Anus	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2	0.4
C22	Liver	-	-	-	-	-	-	1	-	1	-	6	1	2	1	-	-	12	2.2
C23-24	Gallbladder etc.	-	-	-	-	-	2	1	2	5	12	9	6	8	6	2	3	56	10.4
C25	Pancreas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	0.2
C30-31	Nose, sinuses etc.	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	0.4
C32	Larynx	-	-	-	-	-	-	-	1	-	1	-	2	-	3	1	-	8	1.5
C33-34	Trachea, bronchus and lung	-	-	-	-	-	-	-	-	4	2	4	3	7	11	6	4	41	7.6
C37-38	Other thoracic organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	Bone	1	1	-	-	1	-	-	-	1	-	-	1	1	-	-	-	6	1.1
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	Other skin	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-	1	5	0.9
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	1	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	4	0.7
C50	Breast	-	-	-	-	2	2	3	16	18	16	15	18	8	7	5	2	112	20.9
C51	Vulva	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C52	Vagina	-	-	-	-	-	-	-	-	-	1	2	1	1	-	2	-	7	1.3
C53	Cervix uteri	-	-	-	-	1	-	2	11	12	18	9	17	14	11	5	5	105	19.6
C54	Corpus uteri	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	3	0.6
C55	Uterus unspecified	-	-	-	-	-	-	1	1	1	-	-	-	3	-	1	-	7	1.3
C56	Ovary	-	-	2	1	4	1	-	-	3	3	2	-	1	2	-	-	19	3.5
C57	Other female genital organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C58	Placenta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	1	-	-	-	-	-	1	2	-	-	-	-	2	-	-	-	6	1.1
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.2
C67	Bladder	-	-	-	-	1	-	-	-	-	1	-	-	1	1	-	-	4	0.7
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	0.2
C69	Eye	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3	0.6
C70-72	Brain, nervous system	-	-	1	-	-	-	-	-	-	-	1	2	-	-	-	-	4	0.7
C73	Thyroid	-	-	-	1	2	2	1	1	-	-	-	-	1	3	1	-	12	2.2
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C75	Other endocrine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	Hodgkin disease	-	-	-	1	-	-	1	-	-	-	-	-	-	1	-	-	3	0.6
C82-85,C96	Non-Hodgkin lymphoma	-	-	-	1	-	1	-	1	-	-	1	-	1	1	-	1	7	1.3
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	3	0.6
C91	Lymphoid leukemia	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	0.4
C92-94	Myeloid leukemia	-	-	-	-	2	-	1	1	3	-	1	-	1	-	-	-	9	1.7
C95	Leukemia unspecified	1	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	3	0.6
MPD	Myeloproliferative disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MDS	Myelodysplastic syndromes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*O&U	Other and unspecified	-	1	-	2	3	-	1	2	2	4	3	1	2	4	2	4	31	5.8
ALL	All sites	6	4	4	7	19	12	16	43	59	66	61	63	65	61	32	24	542	101
ALLbC44	All sites but C44	6	4	4	7	19	12	16	43	59	64	61	63	63	61	32	23	537	100

%=Relatives Proportion of Cancer of All Sites; *O & U includes the sites (ICD-10: C26, C48, C75, C76, C77, C80)

Table 9. Average Annual Age Specific (ASR), Crude (CR), Age Adjusted (AAR) and Truncated (35-64 years) Incidence Rate per 100,000 Population in 2018 SSDM - Male

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	ASR	TR
C00	-	-	-	-	-	-	-	-	-	-	1.7	1.8	3.9	2.7	8.2	-	0.51	0.6	1
C01-02	-	-	-	0.7	1.1	1.2	4.3	2.6	4.3	-	1.7	7.3	5.9	2.7	-	-	1.46	1.6	3.3
C03-06	-	-	-	-	-	1.2	2.8	5.3	8.6	7.9	26.2	5.5	25.7	27.1	36.8	33.4	5.39	6.3	12.5
C07-08	-	-	-	-	-	-	1.4	-	-	-	-	3.7	-	2.7	4.1	-	0.36	0.4	0.5
C09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	-	-	-	-	-	-	-	-	-	-	1.7	-	-	-	-	-	0.07	0.1	0.3
C11	-	-	-	-	-	-	-	-	-	-	1.7	-	-	-	4.1	-	0.15	0.2	0.3
C12-13	-	-	-	-	-	-	-	-	-	1.6	-	-	3.9	8.1	-	-	0.44	0.5	0.8
C14	-	-	-	-	-	-	-	-	1.4	-	-	-	-	-	-	-	0.07	0.1	0.3
C15	-	-	-	-	-	-	-	1.3	1.4	1.6	1.7	-	3.9	2.7	4.1	-	0.58	0.7	1.6
C16	-	-	-	-	-	-	1.4	2.6	2.9	9.5	7	1.8	-	10.9	12.3	5.6	1.75	2.1	4.3
C17	-	-	-	-	-	-	1.4	2.6	-	1.6	3.5	-	-	5.4	-	5.6	0.66	0.8	1.4
C18	-	-	-	-	1.1	3.6	2.8	1.3	1.4	-	1.7	-	7.9	-	8.2	-	1.09	1.3	1.8
C19-20	-	-	-	0.7	1.1	1.2	-	1.3	2.9	3.2	5.2	3.7	2	8.1	4.1	11.1	1.46	1.7	3
C21	-	-	-	-	1.1	1.2	-	-	-	-	-	1.8	-	-	-	-	0.22	0.3	0.2
C22	-	-	-	-	1.1	1.2	1.4	3.9	5.7	6.3	5.2	5.5	3.9	2.7	8.2	11.1	1.97	2.3	5.1
C23-24	-	-	-	-	-	-	-	5.3	2.9	6.3	5.2	12.8	9.9	13.6	12.3	5.6	2.48	2.8	6.6
C25	-	-	-	-	-	-	-	-	-	1.6	-	1.8	-	-	-	5.6	0.22	0.3	0.5
C30-31	-	-	-	0.7	-	-	-	-	-	-	-	-	-	-	4.1	-	0.15	0.1	-
C32	-	-	-	-	-	-	-	-	-	3.2	-	3.7	5.9	10.9	4.1	11.1	1.02	1.2	1.9
C33-34	-	-	-	-	1.1	-	2.8	1.3	1.4	3.2	1.7	12.8	13.8	29.9	24.5	39	3.35	3.9	4.8
C37-38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	0.7	-	0.5	0.7	-	4.7	1.4	1.3	2.9	1.6	-	1.8	5.9	2.7	12.3	-	1.46	1.6	2.1
C43	-	-	-	-	-	-	-	-	-	1.6	-	-	-	-	-	-	0.07	0.1	0.3
C44	-	-	-	-	-	-	1.4	2.6	-	-	1.7	5.5	2	2.7	4.1	16.7	0.95	1.1	1.7
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	0.7	-	-	-	1.1	-	1.4	2.6	-	-	-	-	2	2.7	4.1	11.1	0.73	0.9	0.8
C50	-	-	-	-	-	-	2.8	-	-	-	-	1.8	3.9	-	-	-	0.36	0.4	0.7
C60	-	-	-	-	-	-	1.4	-	1.4	-	-	3.7	9.9	8.1	4.1	5.6	1.02	1.2	2
C61	-	-	-	-	-	-	-	-	-	-	-	3.7	3.9	8.1	12.3	5.6	0.8	0.9	1
C62	-	-	-	-	-	-	1.4	1.3	-	1.6	-	1.8	-	-	4.1	-	0.36	0.4	0.8
C63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
C64	0.7	-	-	0.7	-	-	-	-	1.4	-	5.2	-	2	8.1	4.1	-	0.8	0.9	1.4
C65	-	-	-	-	-	-	-	-	-	-	-	1.8	-	-	-	-	0.07	0.1	0.2
C66	-	-	-	-	-	-	-	-	-	1.6	-	-	-	-	-	-	0.07	0.1	0.3
C67	-	-	-	-	-	-	-	-	-	1.6	1.7	1.8	5.9	5.4	8.2	22.3	1.02	1.3	1.6
C68	-	-	-	-	-	-	-	-	-	-	1.7	1.8	-	-	-	-	0.15	0.2	0.5
C69	0.7	0.5	-	-	-	-	-	-	-	-	-	-	-	2.7	-	-	0.22	0.2	-
C70-72	0.7	-	1.9	-	1.1	1.2	-	5.3	-	1.6	1.7	1.8	-	-	-	-	1.02	1	1.8
C73	-	-	0.5	-	1.1	2.4	-	-	-	-	-	-	2	-	-	-	0.36	0.4	0.3
C74	-	-	-	-	-	-	-	-	1.4	-	-	-	-	-	-	-	0.07	0.1	0.3
C75	-	-	-	-	-	-	-	-	1.4	-	-	-	-	-	-	-	0.07	0.1	0.3
C81	0.7	0.5	-	-	-	-	1.4	1.3	-	-	-	-	-	-	-	-	0.29	0.3	0.3
C82-85,C96	0.7	0.5	1	0.7	2.1	1.2	1.4	-	2.9	3.2	-	1.8	2	-	-	-	1.09	1.2	1.7
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	1.4	3.2	3.5	-	2	-	4.1	-	0.51	0.6	1.7
C91	0.7	1.1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0.36	0.3	-
C92-94	0.7	0.5	-	0.7	-	3.6	1.4	6.6	4.3	-	-	-	-	-	-	-	1.09	1.2	2.1
C95	1.5	-	0.5	0.7	1.1	-	1.4	2.6	-	1.6	-	1.8	-	-	-	-	0.73	0.8	1
MPD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*O&U	2.2	0.5	0.5	0.7	3.2	2.4	2.8	6.6	-	4.7	8.7	20.1	5.9	16.3	20.4	22.3	4.01	4.5	6.9
ALL	10.4	3.8	5.8	6.1	15.9	24.9	37	57.8	50.2	68	88.9	112	134	185	213	212	41.1	47.1	80.1
ALLbC44	10.4	3.8	5.8	6.1	15.9	24.9	35.6	55.2	50.2	68	87.2	106	132	182	208	195	40.2	45.9	78.4

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

Table 10. Average Annual Age Specific (ASR), Crude (CR), Age Adjusted (AAR) and Truncated (35-64 years) Incidence Rate per 100,000 Population in 2018 SSDM - Female

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	ASR	TR
C00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C01-02	-	-	-	-	-	-	-	1	1.2	1.5	1.8	9.7	-	-	-	-	0.61	0.7	2.3
C03-06	-	0.6	-	-	-	-	-	1	1.2	3	3.6	1.9	4.1	12.4	-	-	0.95	1.2	2.4
C07-08	-	-	0.5	-	0.8	0.8	0.9	-	-	-	-	-	-	-	-	-	0.27	0.2	0.3
C09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	-	0.07	0.1	-
C10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13	-	-	-	-	-	-	-	-	-	-	1.8	-	-	-	-	-	0.07	0.1	0.3
C14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C15	-	-	-	-	-	-	-	-	-	-	-	1.9	-	-	-	-	0.07	0.1	0.2
C16	-	-	-	-	-	0.8	0.9	-	-	3	5.4	3.9	8.2	3.1	19.6	6	1.29	1.7	3
C17	-	-	-	-	-	-	-	-	1.2	-	-	-	-	3.1	-	-	0.14	0.2	0.2
C18	-	-	-	-	-	-	-	1	1.2	-	-	-	2.1	-	-	-	0.2	0.2	0.7
C19-20	-	-	-	-	1.7	-	0.9	2	1.2	-	-	1.9	-	6.2	-	-	0.61	0.6	0.9
C21	-	-	-	-	-	-	-	-	-	-	-	1.9	-	-	-	6	0.14	0.2	0.2
C22	-	-	-	-	-	-	0.9	-	1.2	-	10.8	1.9	4.1	3.1	-	-	0.81	1	2.7
C23-24	-	-	-	-	-	1.6	0.9	2	6.2	17.7	16.2	11.6	16.5	18.6	9.8	18	3.8	4.8	11.3
C25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	-	0.07	0.1	-
C30-31	-	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	6	0.14	0.2	0.2
C32	-	-	-	-	-	-	-	1	-	1.5	-	3.9	-	9.3	4.9	-	0.54	0.7	1
C33-34	-	-	-	-	-	-	-	-	5	3	7.2	5.8	14.4	34	29.4	24	2.78	3.7	5.3
C37-38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	0.8	0.6	-	-	0.8	-	-	-	1.2	-	-	1.9	2.1	-	-	-	0.41	0.5	0.7
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	-	-	-	-	-	-	-	-	-	3	-	-	4.1	-	-	6	0.34	0.5	1.1
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	0.8	-	-	-	-	1.6	-	-	-	-	-	-	-	3.1	-	-	0.27	0.3	-
C50	-	-	-	-	1.7	1.6	2.8	15.8	22.5	23.7	27	34.8	16.5	21.7	24.5	12	7.6	8.9	23
C51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C52	-	-	-	-	-	-	-	-	-	1.5	3.6	1.9	2.1	-	9.8	-	0.47	0.6	1.4
C53	-	-	-	-	0.8	-	1.9	10.9	15	26.6	16.2	32.9	28.8	34	24.5	30	7.12	8.7	20.7
C54	-	-	-	-	-	-	-	-	1.2	-	-	-	2.1	-	-	6	0.2	0.3	0.5
C55	-	-	-	-	-	-	0.9	1	1.2	-	-	-	6.2	-	4.9	-	0.47	0.5	1.2
C56	-	-	1	0.7	3.4	0.8	-	-	3.7	4.4	3.6	-	2.1	6.2	-	-	1.29	1.4	2.4
C57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	0.8	-	-	-	-	-	0.9	2	-	-	-	-	4.1	-	-	-	0.41	0.4	0.9
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	-	-	0.07	0.1	0.3
C67	-	-	-	-	0.8	-	-	-	-	1.5	-	-	2.1	3.1	-	-	0.27	0.3	0.6
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	-	0.07	0.1	-
C69	1.6	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	0.2	0.3	0.2
C70-72	-	-	0.5	-	-	-	-	-	-	-	1.8	3.9	-	-	-	-	0.27	0.3	0.8
C73	-	-	-	0.7	1.7	1.6	0.9	1	-	-	-	-	2.1	9.3	4.9	-	0.81	0.9	0.5
C74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	-	-	-	0.7	-	-	0.9	-	-	-	-	-	-	3.1	-	-	0.2	0.2	-
C82-85,C96	-	-	-	0.7	-	0.8	-	1	-	-	1.8	-	2.1	3.1	-	6	0.47	0.6	0.8
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	-	1.5	-	-	2.1	3.1	-	-	0.2	0.3	0.6
C91	-	0.6	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	0.14	0.1	0.2
C92-94	-	-	-	-	1.7	-	0.9	1	3.7	-	1.8	-	2.1	-	-	-	0.61	0.6	1.5
C95	0.8	-	-	0.7	-	-	-	-	-	-	1.8	-	-	-	-	-	0.2	0.2	0.3
MPD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O&U	-	0.6	-	1.5	2.5	-	0.9	2	2.5	5.9	5.4	1.9	4.1	12.4	9.8	24	2.1	2.6	3.7
ALL	4.7	2.2	1.9	5.1	15.9	9.9	14.9	42.5	73.7	97.6	110	122	134	189	157	144	36.8	44.6	92.1
ALLbC44	4.7	2.2	1.9	5.1	15.9	9.9	14.9	42.5	73.7	94.6	110	122	130	189	157	138	36.4	44.1	91

Table 11. Incidence Cancer Case Distribution Based on Method of Diagnosis in 2018, Male SSDM

ICD-10	Sites	Clinical Investigation		Clinical Note		Microscopic		DCO		Verbal Information		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
C00	Lip	-	-	-	-	5	71.4	-	-	2	-	7	1.2
C01-02	Tongue	-	-	1	5.0	18	90.0	-	-	1	-	20	3.5
C03-06	Mouth	4	5.4	2	2.7	46	62.2	3	4.1	19	-	74	13.1
C07-08	Salivary glands	-	-	-	-	3	60.0	-	-	2	-	5	0.9
C-9	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-
C10	Other oropharynx	-	-	-	-	1	100.0	-	-	-	-	1	0.2
C11	Nasopharynx	1	50.0	-	-	1	50.0	-	-	-	-	2	0.4
C12-13	Hypopharynx	1	20.0	-	-	4	80.0	-	-	-	-	5	0.9
C14	Pharynx unspecified	-	-	-	-	-	-	-	-	1	-	1	0.2
C15	Oesophagus	1	12.5	1	12.5	4	50.0	-	-	2	-	8	1.4
C16	Stomach	1	4.2	1	4.2	13	54.2	-	-	9	-	24	4.3
C17	Small intestine	1	11.1	2	22.2	2	22.2	-	-	4	-	9	1.6
C18	Colon	2	13.3	-	-	10	66.7	1	6.7	2	-	15	2.7
C19-20	Rectum	-	-	-	-	16	80.0	1	5.0	3	-	20	3.5
C21	Anus	1	33.3	-	-	2	66.7	-	0.0	-	-	3	0.5
C22	Liver	-	-	1	3.7	8	29.6	2	7.4	16	-	27	4.8
C23-24	Gallbladder etc.	5	14.7	4	11.8	17	50.0	1	2.9	7	-	34	6.0
C25	Pancreas	-	-	-	-	2	66.7	-	-	1	-	3	0.5
C30-31	Nose, sinuses etc.	-	-	-	-	2	100.0	-	-	-	-	2	0.4
C32	Larynx	-	-	-	-	11	78.6	-	-	3	-	14	2.5
C33-34	Trachea, bronchus and lung	4	8.7	-	-	32	69.6	-	-	10	-	46	8.2
C37-38	Other thoracic organs	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	Bone	3	15.0	1	5.0	7	35.0	-	-	9	-	20	3.5
C43	Melanoma of skin	-	-	-	-	1	100.0	-	-	-	-	1	0.2
C44	Other skin	1	7.7	1	7.7	9	69.2	-	-	2	-	13	2.3
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	1	10.0	1	10.0	5	50.0	-	-	3	-	10	1.8
C50	Breast	-	-	-	-	2	40.0	-	-	3	-	5	0.9
C60	Penis	-	-	1	7.1	10	71.4	-	-	3	-	14	2.5
C61	Prostate	-	-	1	9.1	8	72.7	-	-	2	-	11	2.0
C62	Testis	1	20.0	-	-	2	40.0	1	20.0	1	-	5	0.9
C63	Other male genital organs	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	2	18.2	-	-	6	54.5	-	-	3	-	11	2.0
C65	Renal pelvis	-	-	-	-	1	100.0	-	-	-	-	1	0.2
C66	Ureter	-	-	-	-	-	-	-	-	1	-	1	0.2
C67	Bladder	1	7.1	3	21.4	8	57.1	-	-	2	-	14	2.5
C68	Other urinary organs	-	-	-	-	1	50.0	-	-	1	-	2	0.4
C69	Eye	-	-	-	-	3	100.0	-	-	-	-	3	0.5
C70-72	Brain, nervous system	-	-	-	-	9	64.3	-	-	5	-	14	2.5
C73	Thyroid	-	-	-	-	3	60.0	-	-	2	-	5	0.9
C74	Adrenal gland	-	-	-	-	1	100.0	-	-	-	-	1	0.2
C75	Other endocrine	-	-	-	-	1	100.0	-	-	-	-	1	0.2
C81	Hodgkin disease	-	-	-	-	4	100.0	-	-	-	-	4	0.7
C82-85,C96	Non-Hodgkin lymphoma	-	-	-	-	15	100.0	-	-	-	-	15	2.7
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	7	100.0	-	-	-	-	7	1.2
C91	Lymphoid leukaemia	-	-	-	-	5	100.0	-	-	-	-	5	0.9
C92-94	Myeloid leukaemia	-	-	-	-	15	100.0	-	-	-	-	15	2.7
C95	Leukaemia unspecified	-	-	-	-	10	100.0	-	-	-	-	10	1.8
MPD	Myeloproliferative disorders	-	-	-	-	-	-	-	-	-	-	-	-
MDS	Myelodysplastic syndromes	-	-	-	-	-	-	-	-	-	-	-	-
*O&U	Other and unspecified	2	3.6	1	1.8	20	35.7	1	1.8	32	-	56	9.9
	Total	32	5.7	21	3.7	350	62.1	10	1.8	151	26.8	564	100.0

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

Table 12. Incidence Cancer Case Distribution Based on Method of Diagnosis in 2018, Female SSDM

ICD-10	Sites	Clinical Investigation		Clinical Note		Microscopic		DCO		Verbal Information		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
C00	Lip	-	-	-	-	-	-	-	-	-	-	-	-
C01-02	Tongue	2	22.2	-	-	3	33.3	-	-	4	44.4	9	1.7
C03-06	Mouth	1	7.1	-	-	8	57.1	-	-	5	35.7	14	2.6
C07-08	Salivary glands	-	-	-	-	4	100.0	-	-	-	-	4	0.7
C09	Tonsil	-	-	-	-	1	100.0	-	-	-	-	1	0.2
C10	Other oropharynx	-	-	-	-	-	-	-	-	-	-	-	-
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	-
C12-13	Hypopharynx	-	-	-	-	1	100.0	-	-	-	-	1	0.2
C14	Pharynx unspecified	-	-	-	-	0	-	-	-	-	-	-	-
C15	Oesophagus	-	-	-	-	1	100.0	-	-	-	-	1	0.2
C16	Stomach	-	-	1	5.3	11	57.9	-	-	7	36.8	19	3.5
C17	Small intestine	-	-	-	-	2	100.0	-	-	-	-	2	0.4
C18	Colon	-	-	-	-	2	66.7	1	33.3	-	-	3	0.6
C19-20	Rectum	1	11.1	-	-	7	77.8	-	-	0	1	9	1.7
C21	Anus	-	-	-	-	1	50.0	-	-	1	50.0	2	0.4
C22	Liver	3	25.0	-	-	4	33.3	1	8.3	4	33.3	12	2.2
C23-24	Gallbladder etc.	8	14.3	4	7.143	36	64.3	-	-	0	8	56	10.3
C25	Pancreas	-	-	-	-	1	100.0	-	-	-	-	1	0.2
C30-31	Nose, sinuses etc.	-	-	-	-	1	50.0	-	-	1	50.0	2	0.4
C32	Larynx	-	-	-	-	8	100.0	-	-	-	-	8	1.5
C33-34	Trachea, bronchus and lung	3	7.3	1	2.439	27	65.9	2	4.9	8	19.5	41	7.6
C37-38	Other thoracic organs	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	Bone	1	16.7	-	-	2	33.3	-	-	3	50.0	6	1.1
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-
C44	Other skin	1	20.0	-	-	4	80.0	-	-	-	-	5	0.9
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	1	25.0	-	-	2	50.0	-	-	1	25.0	4	0.7
C50	Breast	6	5.4	3	2.679	71	63.4	3	2.7	29	25.9	112	20.7
C51	Vulva	-	-	-	-	-	-	-	-	-	-	-	-
C52	Vagina	1	14.3	-	0	6	85.7	-	-	-	0.0	7	1.3
C53	Cervix uteri	5	4.8	-	0	76	72.4	1	1.0	23	21.9	105	19.4
C54	Corpus uteri	-	-	-	-	2	66.7	-	-	1	33.3	3	0.6
C55	Uterus unspecified	-	-	-	-	1	14.3	1	14.3	5	71.4	7	1.3
C56	Ovary	-	-	-	-	17	89.5	-	-	2	10.5	19	3.5
C57	Other female genital organs	-	-	-	-	-	-	-	-	-	-	-	-
C58	Placenta	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	1	16.7	-	0	4	66.7	-	-	1	16.7	6	1.1
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	1	100.0	-	-	-	-	1	0.2
C67	Bladder	1	25.0	1	25	1	25.0	-	-	1	25.0	4	0.7
C68	Other urinary organs	-	-	-	-	1	100.0	-	-	-	-	1	0.2
C69	Eye	-	-	-	-	3	100.0	-	-	-	-	3	0.6
C70-72	Brain, nervous system	-	-	-	-	4	100.0	-	-	-	-	4	0.7
C73	Thyroid	2	16.7	-	0	7	58.3	-	-	3	25.0	12	2.2
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	-	-
C75	Other endocrine	-	-	-	-	-	-	-	-	-	-	-	-
C81	Hodgkin disease	-	-	-	-	3	100.0	-	-	-	-	3	0.6
C82-85,C96	Non-Hodgkin lymphoma	-	-	-	-	7	100.0	-	-	-	-	7	1.3
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	3	100.0	-	-	-	-	3	0.6
C91	Lymphoid leukaemia	-	-	-	-	2	100.0	-	-	-	-	2	0.4
C92-94	Myeloid leukaemia	-	-	-	-	9	100.0	-	-	-	-	9	1.7
C95	Leukaemia unspecified	-	-	-	-	3	100.0	-	-	-	-	3	0.6
MPD	Myeloproliferative disorders	-	-	-	-	-	-	-	-	-	-	-	-
MDS	Myelodysplastic syndromes	-	-	-	-	-	-	-	-	-	-	-	-
*O&U	Other and unspecified	-	-	2	6.452	9	29.0	4	12.9	16	51.61	31	5.7
	Total	37	6.8	12	2.2	356	65.7	13	2.4	124	22.9	542	100

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

Table 13. Age Group Wise Distribution of Cancer Mortality Cases in 2018 SSDM -Male

ICD 10th	SITE	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	1.3
C01-02	Tongue	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	3	1.9
C03-06	Mouth	-	-	-	-	-	-	-	1	2	-	2	-	2	4	2	3	16	10.4
C07-08	Salivary glands	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	-	3	1.9
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	Other oropharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13	Hypopharynx	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	0.6
C14	Pharynx unspecified	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.6
C15	Oesophagus	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	5	3.2
C16	Stomach	1	-	-	-	-	-	-	2	-	-	1	-	-	1	1	-	6	3.9
C17	Small intestine	-	-	-	-	-	-	-	1	-	-	-	-	1	2	-	-	4	2.6
C18	Colon	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	3	1.9
C19-20	Rectum	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	3	1.9
C21	Anus	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	0.6
C22	Liver	-	-	-	1	-	1	2	-	1	2	-	2	2	2	-	2	15	9.7
C23-24	Gallbladder etc.	-	-	-	-	-	-	-	-	1	1	2	2	3	1	1	-	11	7.1
C25	Pancreas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C30-31	Nose, sinuses etc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C32	Larynx	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	1.3
C33-34	Trachea, bronchus and lung	-	-	-	-	1	-	-	-	1	1	1	3	3	3	3	3	19	12.3
C37-38	Other thoracic organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	Bone	-	-	-	-	-	-	-	-	-	1	-	1	-	1	2	-	5	3.2
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	Other skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.6
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	1.9
C50	Breast	-	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	3	1.9
C60	Penis	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	2	1.3
C61	Prostate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.6
C62	Testis	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	2	1.3
C63	Other male genital organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	0.6
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	3	1.9
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.6
C69	Eye	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C70-72	Brain, nervous system	-	-	1	-	-	-	-	1	-	-	-	1	-	-	-	-	3	1.9
C73	Thyroid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C75	Other endocrine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	Hodgkin disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C82-85,C96	Non-Hodgkin lymphoma	-	-	-	1	-	1	-	-	-	1	-	-	-	-	-	-	3	1.9
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	3	1.9
C91	Lymphoid leukemia	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.6
C92-94	Myeloid leukemia	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	2	1.3
C95	Leukemia unspecified	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.3
MPD	Myeloproliferative disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MDS	Myelodysplastic syndromes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*O&U	Other and unspecified	-	1	-	-	1	2	2	-	1	1	3	3	3	3	2	2	24	15.6
ALL	All sites	2	1	3	2	2	5	8	8	8	10	14	16	22	22	15	17	155	101
ALLbc44	All sites but C44	2	1	3	2	2	5	8	8	8	10	14	16	22	22	15	16	154	100

Table 14. Age Group Wise Distribution of Cancer Mortality Cases in 2018 SSDM -Female

ICD 10	SITE	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C01-02	Tongue	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.8
C03-06	Mouth	-	-	-	-	-	-	-	1	-	2	-	-	-	1	-	-	4	3.1
C07-08	Salivary glands	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	0.8
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	Other oropharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13	Hypopharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14	Pharynx unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C15	Oesophagus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C16	Stomach	-	-	-	-	-	1	-	-	-	2	2	-	1	-	3	-	9	6.9
C17	Small intestine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C18	Colon	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	0.8
C19-20	Rectum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C21	Anus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22	Liver	-	-	-	-	-	-	1	-	1	-	4	-	-	-	1	-	7	5.4
C23-24	Gallbladder etc.	-	-	-	-	-	1	1	-	1	2	2	1	3	1	1	-	13	10.0
C25	Pancreas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C30-31	Nose, sinuses etc.	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	1.5
C32	Larynx	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	2	1.5
C33-34	Trachea, bronchus and lung	-	-	-	-	-	-	-	-	-	1	1	2	3	6	3	1	17	13.1
C37-38	Other thoracic organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	Bone	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	2	1.5
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	Other skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.8
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	Connective and soft tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.8
C50	Breast	-	-	-	-	-	-	1	-	2	3	2	2	4	2	2	-	18	13.8
C51	Vulva	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C52	Vagina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C53	Cervix uteri	-	-	-	-	-	1	1	2	2	1	2	2	4	2	1	-	18	13.8
C54	Corpus uteri	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.8
C55	Uterus unspecified	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	3	2.3
C56	Ovary	-	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	3	2.3
C57	Other female genital organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C58	Placenta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	1.5
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.8
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C70-72	Brain, nervous system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C73	Thyroid	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	1.5
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C75	Other endocrine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	Hodgkin disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C82-85,C96	Non-Hodgkin lymphoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.8
C88	Immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C91	Lymphoid leukemia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C92-94	Myeloid leukemia	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.8
C95	Leukemia unspecified	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	0.8
MPD	Myeloproliferative disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MDS	Myelodysplastic syndromes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*O&U	Other and unspecified	1	1	-	2	2	1	-	-	1	1	2	1	4	1	1	1	19	14.6
ALL	All sites	2	1	1	3	3	4	4	5	8	14	16	11	22	18	13	6	131	101
ALLbC44	All sites but C44	2	1	1	3	3	4	4	5	8	14	16	11	22	18	13	5	130	100

%=Relatives Proportion of Cancer of All Sites; *O & U includes the sites (ICD-10: C26, C48, C75, C76, C77, C80)

Table 15. Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35-65 years)(TR) Mortality Rate per 100,000 Population:2018 SSDM-Male

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	ASR	TR
C00	-	-	-	-	-	-	-	1.3	-	-	1.7	-	-	-	-	-	0.1	0.2	0.5
C01-02	-	-	-	-	-	-	-	1.3	-	-	-	-	2.0	-	4.1	-	0.2	0.2	0.5
C03-06	-	-	-	-	-	-	-	1.3	2.9	-	3.5	-	3.9	10.9	8.2	16.7	1.2	1.4	1.9
C07-08	-	-	-	-	-	-	-	1.4	-	-	-	1.8	-	2.7	-	-	0.2	0.2	0.2
C09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13	-	-	-	-	-	-	-	-	-	1.6	-	-	-	-	-	-	0.1	0.1	0.3
C14	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	-	-	0.1	0.1	0.3
C15	-	-	-	-	-	-	-	-	1.4	1.6	1.7	1.8	2.0	-	-	-	0.4	0.4	1.4
C16	-	-	-	-	-	-	-	2.6	-	-	1.7	-	-	2.7	4.1	-	0.4	0.5	0.8
C17	-	-	-	-	-	-	-	1.3	-	-	-	-	2.0	5.4	-	-	0.3	0.3	0.5
C18	-	-	-	-	-	-	-	-	-	-	-	-	3.9	2.7	-	-	0.2	0.2	0.5
C19-20	-	-	-	-	-	-	-	-	1.4	-	-	-	-	2.7	-	5.6	0.2	0.3	0.3
C21	-	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	-	0.1	0.1	-
C22	-	-	-	0.7	-	1.2	2.8	-	1.4	3.2	-	3.7	3.9	5.4	-	11.1	1.1	1.3	1.9
C23-24	-	-	-	-	-	-	-	-	1.4	1.6	3.5	3.7	5.9	2.7	4.1	-	0.8	0.9	2.4
C25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C30-31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C32	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	4.1	-	0.1	0.2	-
C33-34	-	-	-	-	1.1	-	-	-	1.4	1.6	1.7	5.5	5.9	8.1	12.3	16.7	1.4	1.6	2.3
C37-38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	-	-	-	-	-	-	-	-	-	1.6	-	1.8	-	2.7	8.2	-	0.4	0.4	0.5
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	0.1	0.1	-
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	11.1	0.2	0.3	-
C50	-	-	-	-	-	-	2.8	-	-	-	1.7	-	-	-	-	-	0.2	0.3	0.3
C60	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2.7	-	-	0.1	0.2	0.3
C61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	0.1	0.1	-
C62	-	-	-	-	-	-	1.4	-	-	-	-	1.8	-	-	-	-	0.1	0.2	0.2
C63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	-	0.1	0.1	-
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	-	-	-	1.6	-	-	-	-	-	11.1	0.2	0.3	0.3
C68	-	-	-	-	-	-	-	-	-	-	-	1.8	-	-	-	-	0.1	0.1	0.2
C69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C70-72	-	-	0.5	-	-	-	-	1.3	-	-	-	1.8	-	-	-	-	0.2	0.2	0.5
C73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C82-85,C96	-	-	-	0.7	-	1.2	-	-	-	1.6	-	-	-	-	-	-	0.2	0.3	0.3
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	-	-	3.5	-	2.0	-	-	-	0.2	0.3	0.8
C91	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C92-94	-	-	-	-	-	-	-	1.3	-	-	-	-	2.0	-	-	-	0.1	0.2	0.5
C95	0.7	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.0
MPD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*O&U	-	0.5	-	-	1.1	2.4	2.8	-	1.4	1.6	5.2	5.5	5.9	8.1	8.2	11.1	1.7	2.0	2.9
ALL	1.5	0.5	1.5	1.4	2.1	5.9	11.4	10.5	11.5	15.8	24.4	29.3	43.4	59.7	61.3	94.8	11.3	13.1	20.6
ALLbc44	1.5	0.5	1.5	1.4	2.1	5.9	11.4	10.5	11.5	15.8	24.4	29.3	43.4	59.7	61.3	89.2	11.2	13.0	20.6

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

Table 16. Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35-65 years) (TR) Mortality Rate per 100,000 Population:2018 SSDM-Female

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	ASR	TR
C00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C01-02	-	-	-	-	-	-	-	-	-	-	-	1.9	-	-	-	-	0.1	0.1	0.2
C03-06	-	-	-	-	-	-	-	1.0	-	3.0	-	-	-	3.1	-	-	0.3	0.3	0.8
C07-08	-	-	-	-	-	-	-	-	-	-	1.8	-	-	-	-	-	0.1	0.1	0.3
C09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C16	-	-	-	-	-	0.8	-	-	-	3.0	3.6	-	2.1	-	14.7	-	0.6	0.8	1.4
C17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C18	-	-	-	-	-	-	-	1.0	-	-	-	-	-	-	-	-	0.1	0.1	0.2
C19-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22	-	-	-	-	-	-	0.9	-	1.2	-	7.2	-	-	-	4.9	-	0.5	0.6	1.4
C23-24	-	-	-	-	-	0.8	0.9	-	1.2	3.0	3.6	1.9	6.2	3.1	4.9	-	0.9	1.1	2.4
C25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C30-31	-	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	6.0	0.1	0.2	0.2
C32	-	-	-	-	-	-	-	-	-	-	-	1.9	-	3.1	-	-	0.1	0.2	0.2
C33-34	-	-	-	-	-	-	-	-	-	1.5	1.8	3.9	6.2	18.6	14.7	6.0	1.2	1.6	1.9
C37-38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-41	-	-	0.5	-	-	-	-	-	-	-	-	1.9	-	-	-	-	0.1	0.1	0.2
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	0.1	0.1	-
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47,C49	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1	-	-	0.1	0.1	-
C50	-	-	-	-	-	-	0.9	0.0	2.5	4.4	3.6	3.9	8.2	6.2	9.8	-	1.2	1.5	3.5
C51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C53	-	-	-	-	-	0.8	0.9	2.0	2.5	1.5	3.6	3.9	8.2	6.2	4.9	-	1.2	1.4	3.3
C54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	-	0.1	0.1	-
C55	-	-	-	-	-	-	-	-	-	1.5	-	-	4.1	-	-	-	0.2	0.3	0.8
C56	-	-	-	-	0.8	-	-	-	-	1.5	-	-	-	3.1	-	-	0.2	0.2	0.3
C57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	0.8	-	-	-	-	-	-	1.0	-	-	-	-	-	-	-	-	0.1	0.2	0.2
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1	-	-	0.1	0.1	-
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C70-72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C73	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1	4.9	-	0.1	0.2	-
C74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C82-85,C96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	0.1	0.1	-
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C92-94	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	-	-	0.1	0.1	0.3
C95	-	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	-
MPD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O&U	0.8	0.6	-	1.5	1.7	0.8	-	-	1.2	1.5	3.6	1.9	8.2	3.1	4.9	6.0	1.3	1.5	2.4
ALL	1.6	0.6	0.5	2.2	2.5	3.3	3.7	4.9	10.0	20.7	28.8	21.3	45.3	55.7	63.6	36.0	8.9	11.1	20.1
ALLbC44	1.6	0.6	0.5	2.2	2.5	3.3	3.7	4.9	10.0	20.7	28.8	21.3	45.3	55.7	63.6	30.0	8.8	11.0	20.1

Cases According to Wards Within Urban/Rural Municipality in Each district

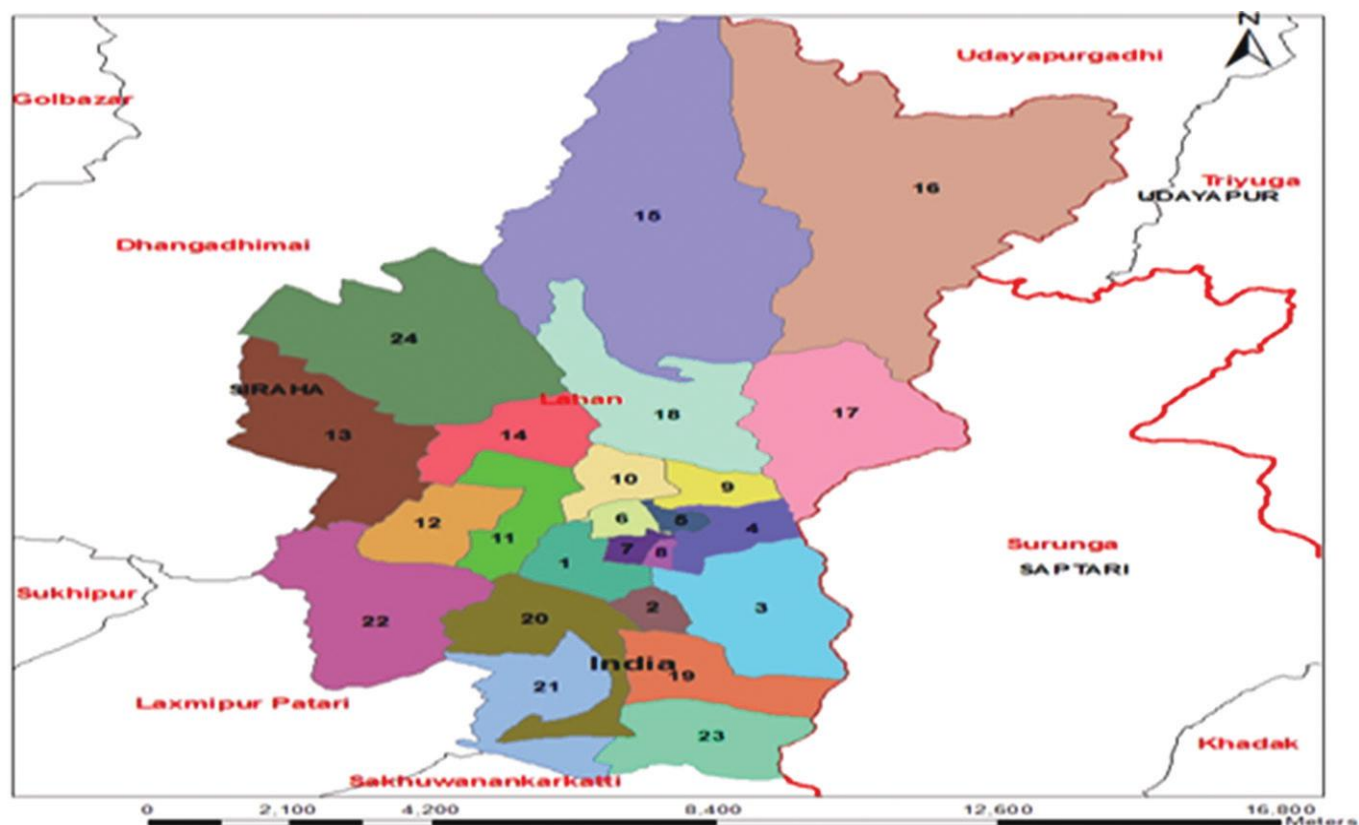
Urban/Rural Municipality Wise Cancer Incidence and Mortality: Siraha District



Urban/Rural Municipality Wise Cancer Incidence and Mortality: Siraha District

SN	Municipality/Village Concl	Incidence Cases			Mortality Cases		
		Male	Female	Total	Male	Female	Total
1	Lahan Municipality	21	18	39	7	3	10
2	Siraha Municipality	30	19	49	14	4	18
3	Karganha Municipality	7	6	13	1	5	6
4	Mirchaiya Municipality	12	17	29	2	2	4
5	Dhangadimai Municipality	5	7	12	1	3	4
6	Bhagwanpur Rural Municipality	4	3	7	2	0	2
7	Sakhuwa Nankarkatti Rural Municipality	2	7	9	2	2	4
8	Bariyarpati Rural Municipality	5	3	8	1	0	1
9	Aaurhi Rural Municipality	2	1	3	1	0	1
10	Sukhipur Municipality	9	9	18	3	4	7
11	Arnama Rural Municipality	3	2	5	1	1	2
12	Kalyanpur Municipality	12	8	20	10	7	17
13	Bishnupur Rural Municipality	3	4	7	1	1	2
14	Navarajpur Rural Municipality	8	5	13	3	4	7
15	Laxmipur Patari Rural Municipality	3	9	12	0	1	1
16	Narha Rural Municipality	4	6	10	0	3	3
17	Golbazaar Municipality	16	13	29	5	1	6
18	Unknown	20	17	37	0	0	0
Total		166	154	320	54	41	95

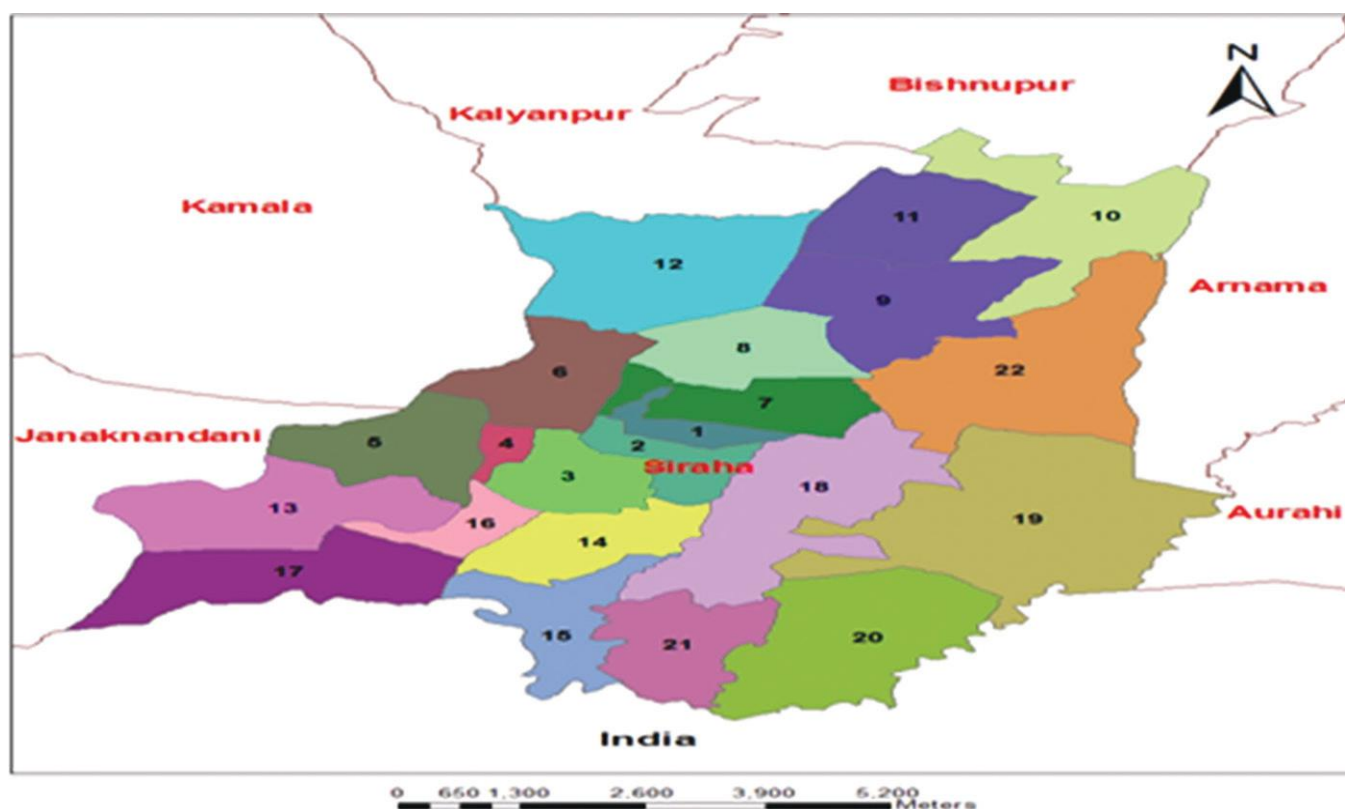
Ward Wise Cancer Incidence and Mortality: Lahan Municipality



Ward Wise Cancer Incidence and Mortality: Lahan Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	2	3	0	1	1
2	2	3	0	3	0	0	0
3	3	0	1	1	0	0	0
4	4	1	0	1	0	0	0
5	5	2	2	4	2	0	2
6	6	1	2	3	0	2	2
7	7	2	0	2	1	0	1
8	8	0	1	1	0	0	0
9	9	0	1	1	0	0	0
10	10	0	1	1	0	0	0
11	11	1	1	2	1	0	1
12	12	1	1	2	0	0	0
13	13	0	0	0	0	0	0
14	14	1	1	2	1	0	1
15	15	0	0	0	0	0	0
16	16	0	0	0	0	0	0
17	17	0	1	1	0	0	0
18	18	2	0	2	0	0	0
19	19	1	0	1	1	0	1
20	20	1	0	1	0	0	0
21	21	0	0	0	0	0	0
22	22	2	0	2	1	0	1
23	23	1	0	1	0	0	0
24	24	0	3	3	0	0	0
25	Unknown	1	1	2	0	0	0
Total		21	18	39	7	3	10

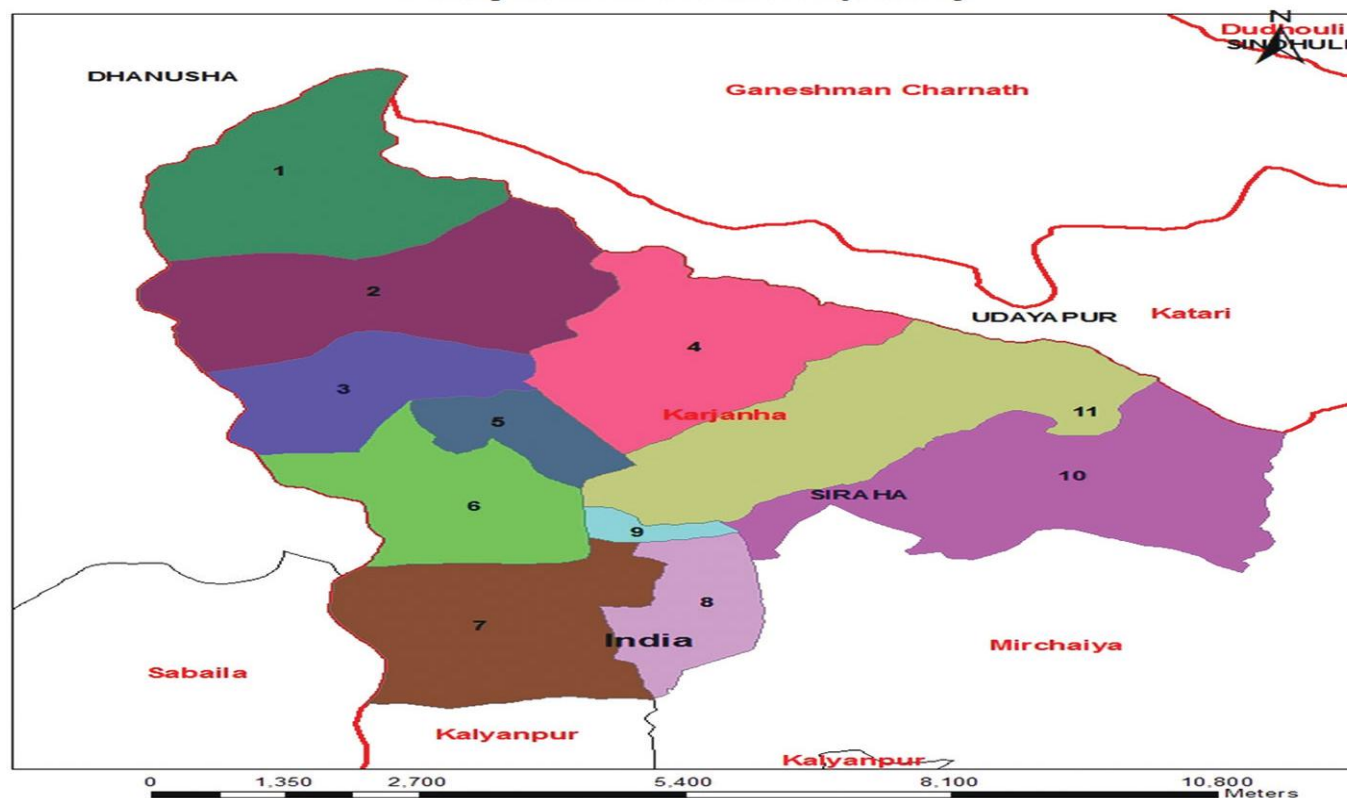
Ward Wise Cancer Incidence and Mortality: Siraha Municipality



Ward Wise Cancer Incidence and Mortality: Siraha Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	1	1	0	0	0
2	2	0	1	1	0	0	0
3	3	0	3	3	0	0	0
4	4	3	1	4	2	0	2
5	5	0	0	0	0	0	0
6	6	2	1	3	2	0	2
7	7	3	1	4	1	1	2
8	8	0	0	0	0	0	0
9	9	0	2	2	0	0	0
10	10	1	0	1	1	0	1
11	11	2	0	2	1	0	1
12	12	1	1	2	1	1	2
13	13	0	0	0	0	0	0
14	14	2	0	2	1	0	1
15	15	1	0	1	1	0	1
16	16	0	0	0	0	0	0
17	17	1	2	3	0	0	0
18	18	1	2	3	0	2	2
19	19	2	0	2	0	0	0
20	20	2	0	2	2	0	2
21	21	1	0	1	0	0	0
22	22	3	0	3	2	0	2
23	99	5	4	9	0	0	0
Total		30	19	49	14	4	18

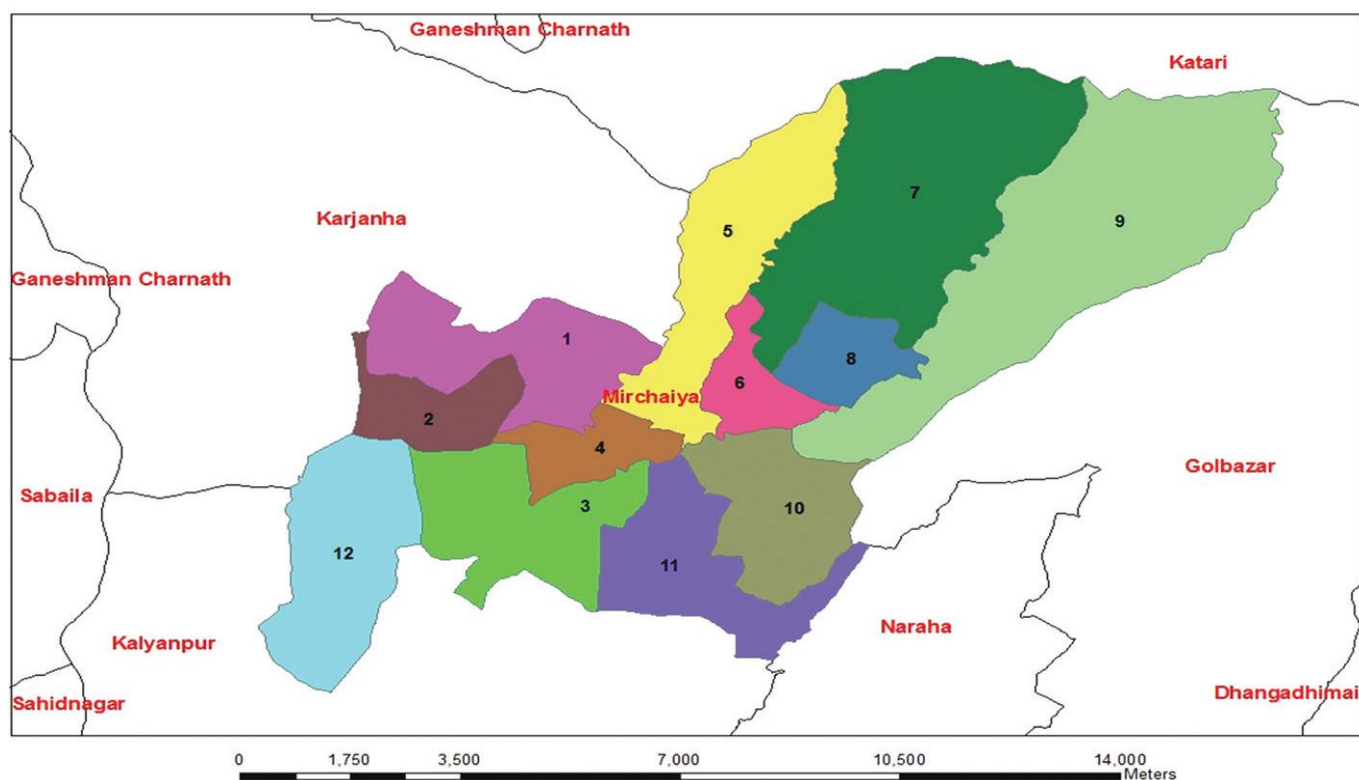
Ward Wise Cancer Incidence and Mortality: Karjanha Municipality



Ward Wise Cancer Incidence and Mortality: Karjanha Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	0	1	1	0	0	0
3	3	0	0	0	1	0	1
4	4	0	0	0	0	0	0
5	5	0	0	0	0	0	0
6	6	0	0	0	0	0	0
7	7	2	1	3	0	2	2
8	8	0	0	0	0	0	0
9	9	3	1	4	0	1	1
10	10	0	1	1	0	1	1
11	11	1	1	2	0	1	1
12	99	1	1	2	0	0	0
Total		7	6	13	1	5	6

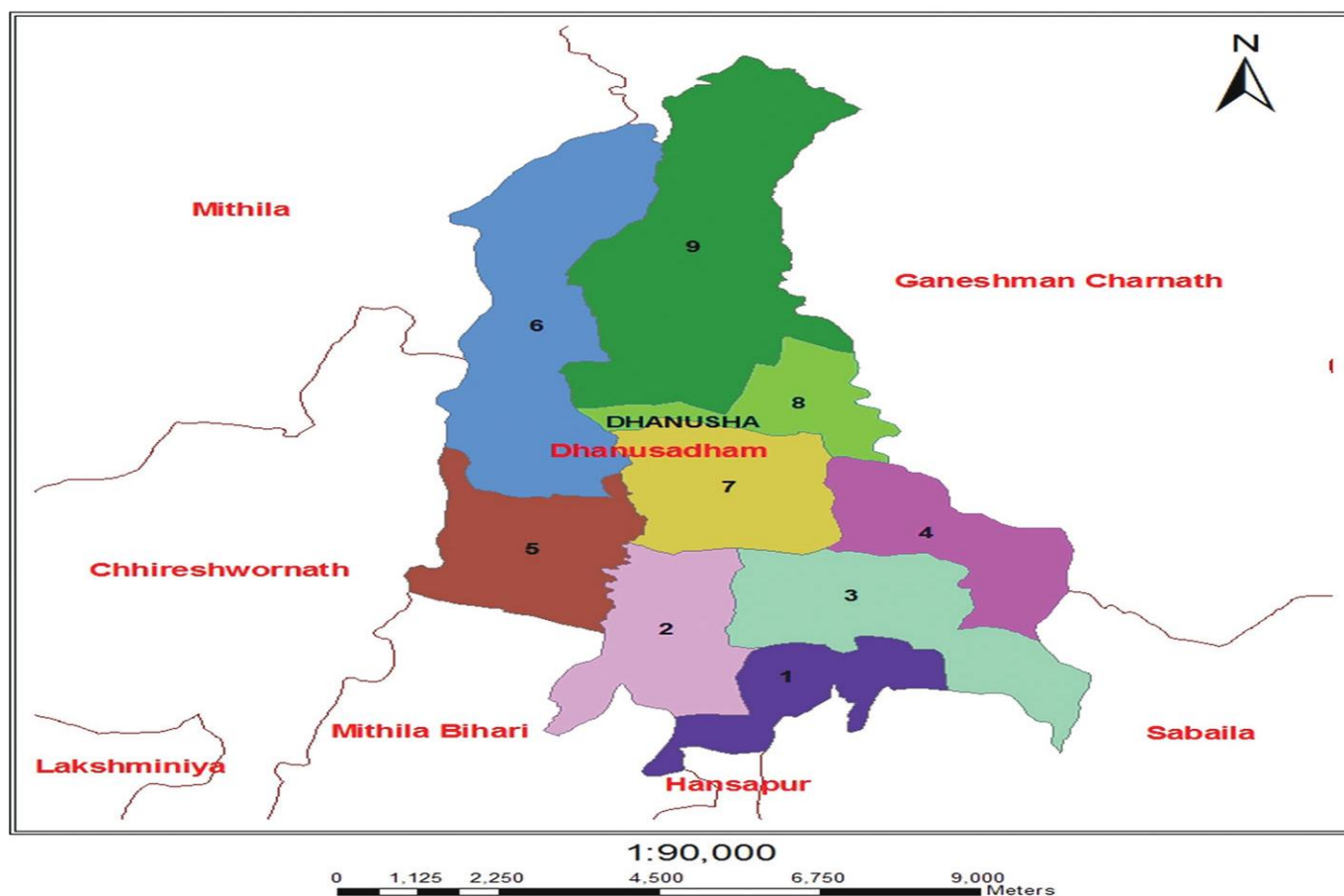
Ward Wise Cancer Incidence and Mortality: Mirchaiya Municipality



Ward Wise Cancer Incidence and Mortality: Mirchaiya Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	0	0	0	0	1	1
3	3	1	3	4	0	1	1
4	4	0	0	0	0	0	0
5	5	0	2	2	0	0	0
6	6	2	2	4	0	0	0
7	7	1	1	2	0	0	0
8	8	3	3	6	1	0	1
9	9	3	2	5	1	0	1
10	10	0	0	0	0	0	0
11	11	0	1	1	0	0	0
12	12	2	2	4	0	0	0
13	99	0	1	1	0	0	0
Total		12	17	29	2	2	4

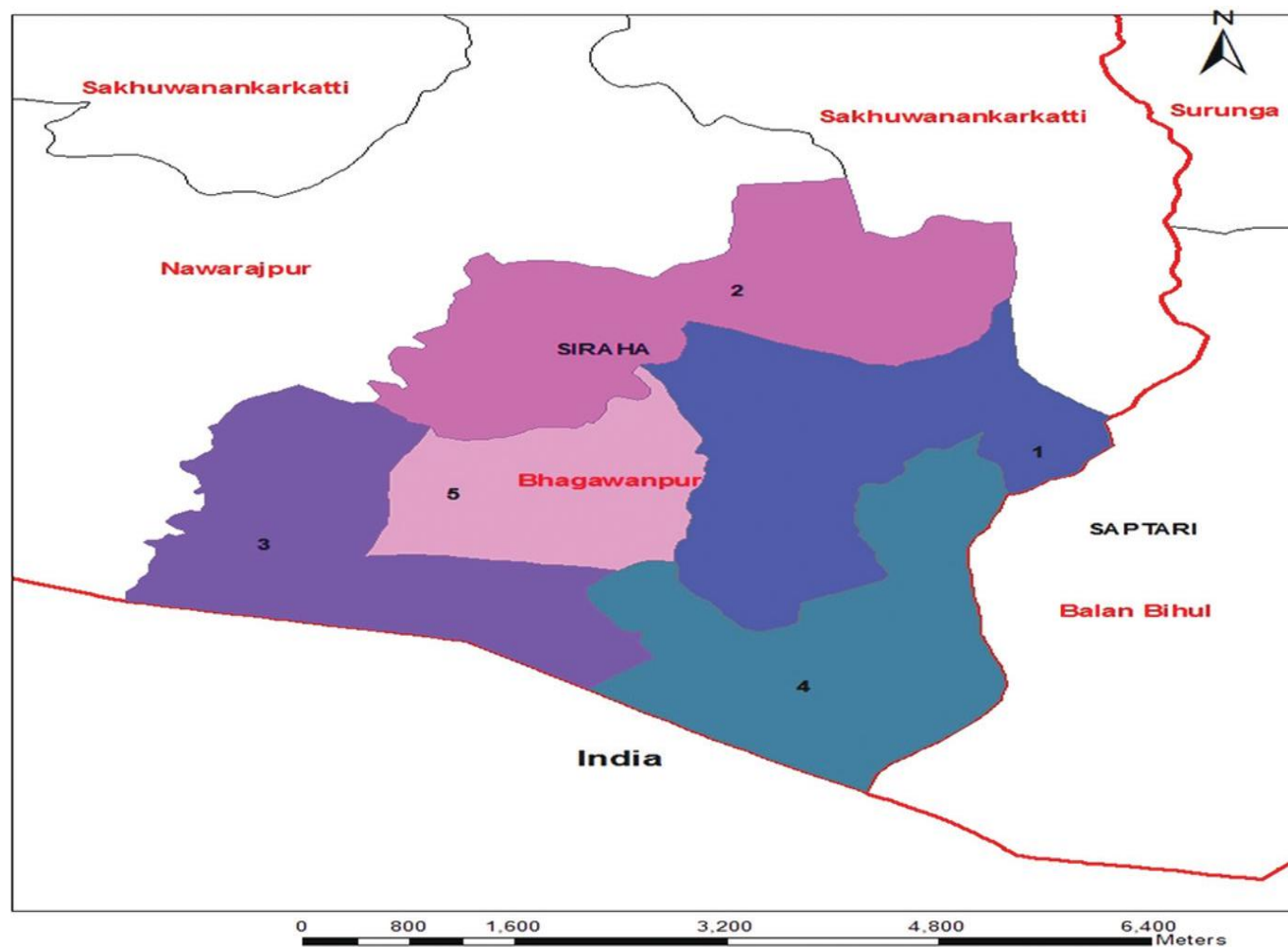
Ward Wise Cancer Incidence and Mortality: Dhangadimai Municipality



Ward Wise Cancer Incidence and Mortality: Dhangadimai Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	1	0	1	0	0	0
3	3	0	0	0	0	0	0
4	4	0	2	2	0	0	0
5	5	0	0	0	0	0	0
6	6	0	0	0	0	0	0
7	7	1	1	2	0	1	1
8	8	0	0	0	0	0	0
9	9	0	1	1	0	0	0
10	10	2	0	2	0	0	0
11	11	0	1	1	0	1	1
12	12	0	1	1	0	0	0
13	13	0	0	0	0	0	0
14	14	1	1	2	1	1	2
Total		5	7	12	1	3	4

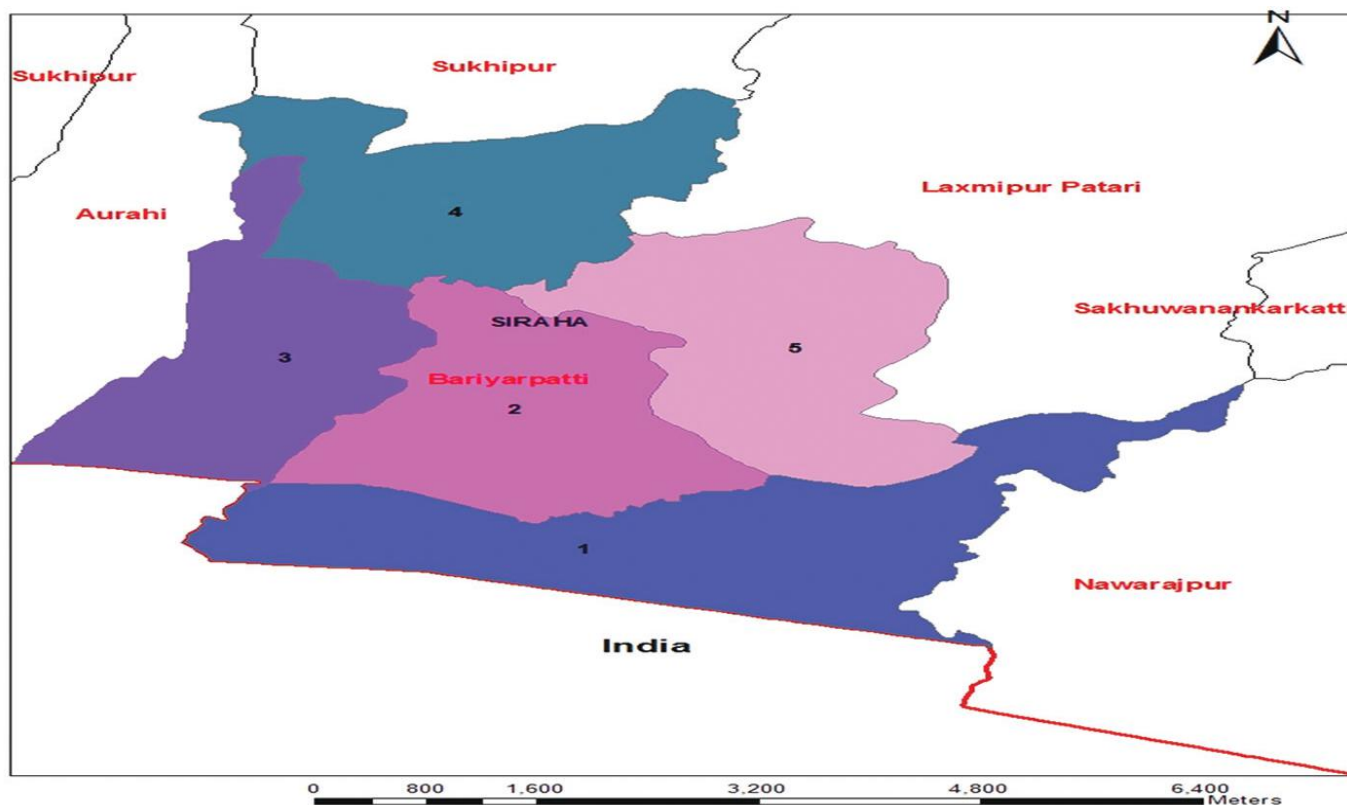
Ward Wise Cancer Incidence and Mortality: Bhagwanpur Rural Municipality



Ward Wise Cancer Incidence and Mortality: Bhagwanpur Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	1	1	2	0	0	0
3	3	1	1	2	1	0	1
4	4	1	0	1	0	0	0
5	5	1	1	2	1	0	1
Total		4	3	7	2	0	2

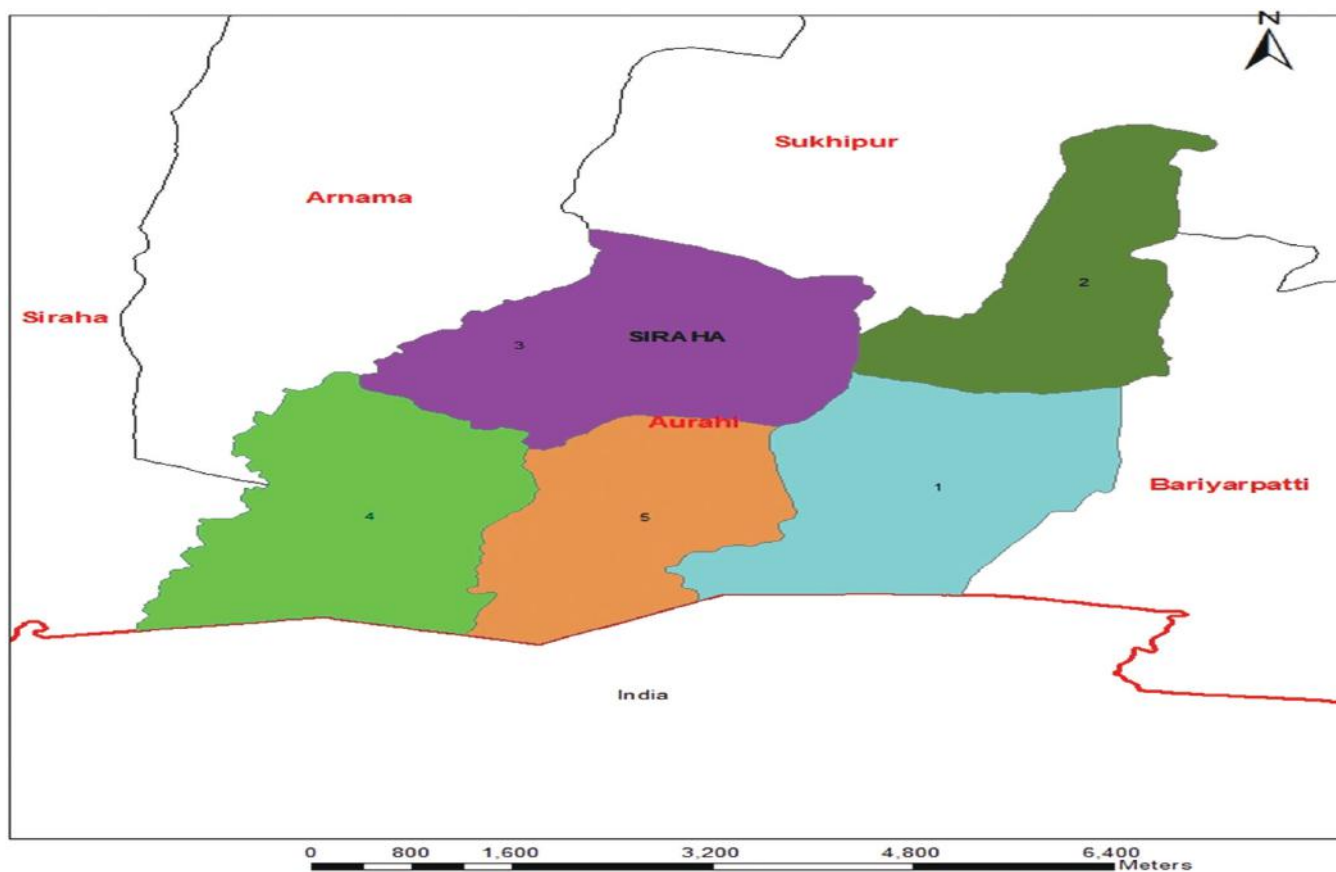
Ward Wise Cancer Incidence and Mortality: Bariyarpatti Rural Municipality



Ward Wise Cancer Incidence and Mortality: Bariyarpatti Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	2	0	2	1	0	1
2	2	0	0	0	0	0	0
3	3	1	0	1	0	0	0
4	4	1	0	1	0	0	0
5	5	0	2	2	0	0	0
6	99	1	1	2	0	0	0
Total		5	3	8	1	0	1

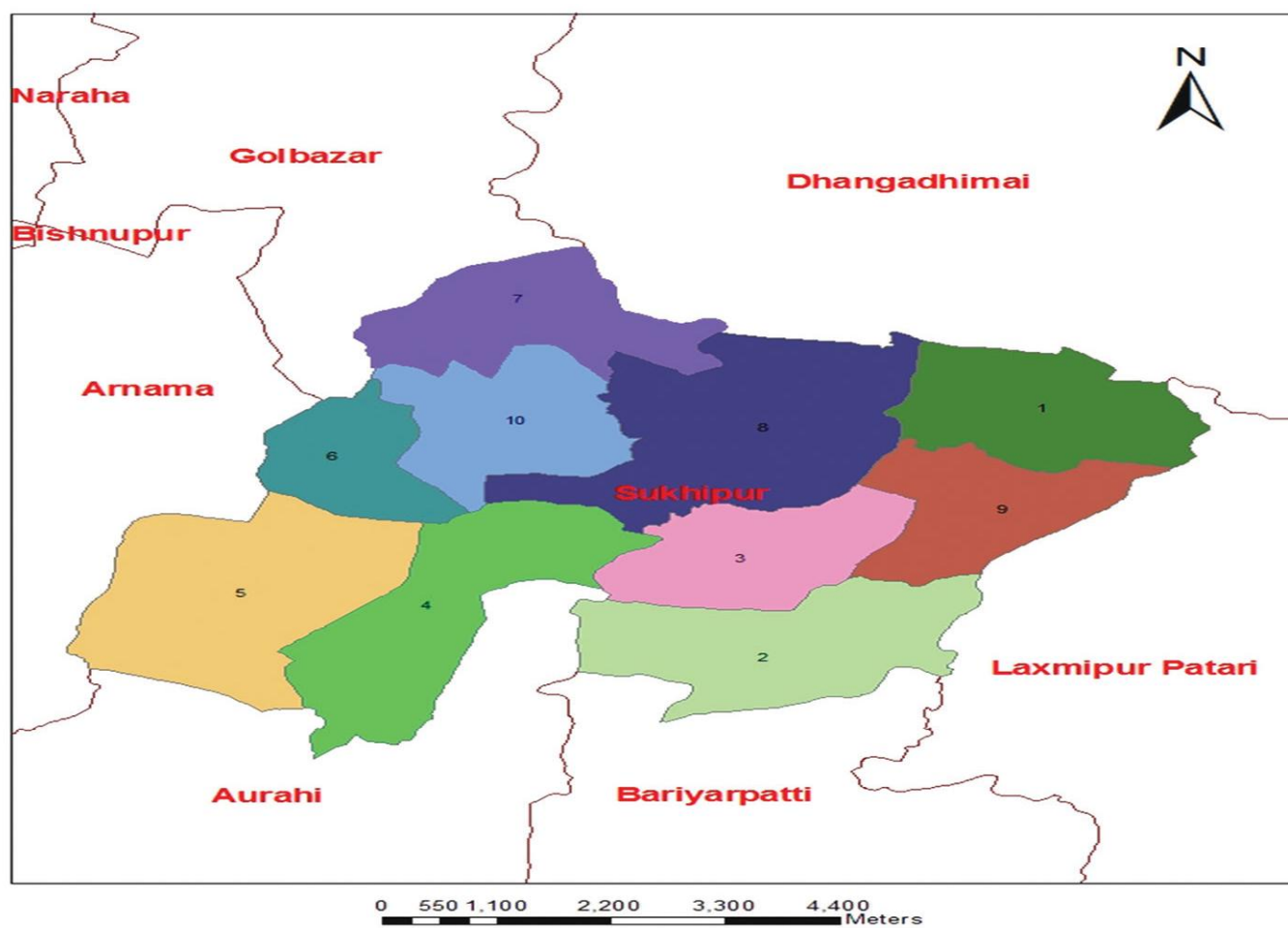
Ward Wise Cancer Incidence and Mortality: Aaurhi Rural Municipality



Ward Wise Cancer Incidence and Mortality: Aaurhi Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	0	0	0	0	0	0
3	3	0	0	0	0	0	0
4	4	1	1	2	0	0	0
5	5	0	0	0	0	0	0
6	99	1	0	1	1	0	1
Total		2	1	3	1	0	1

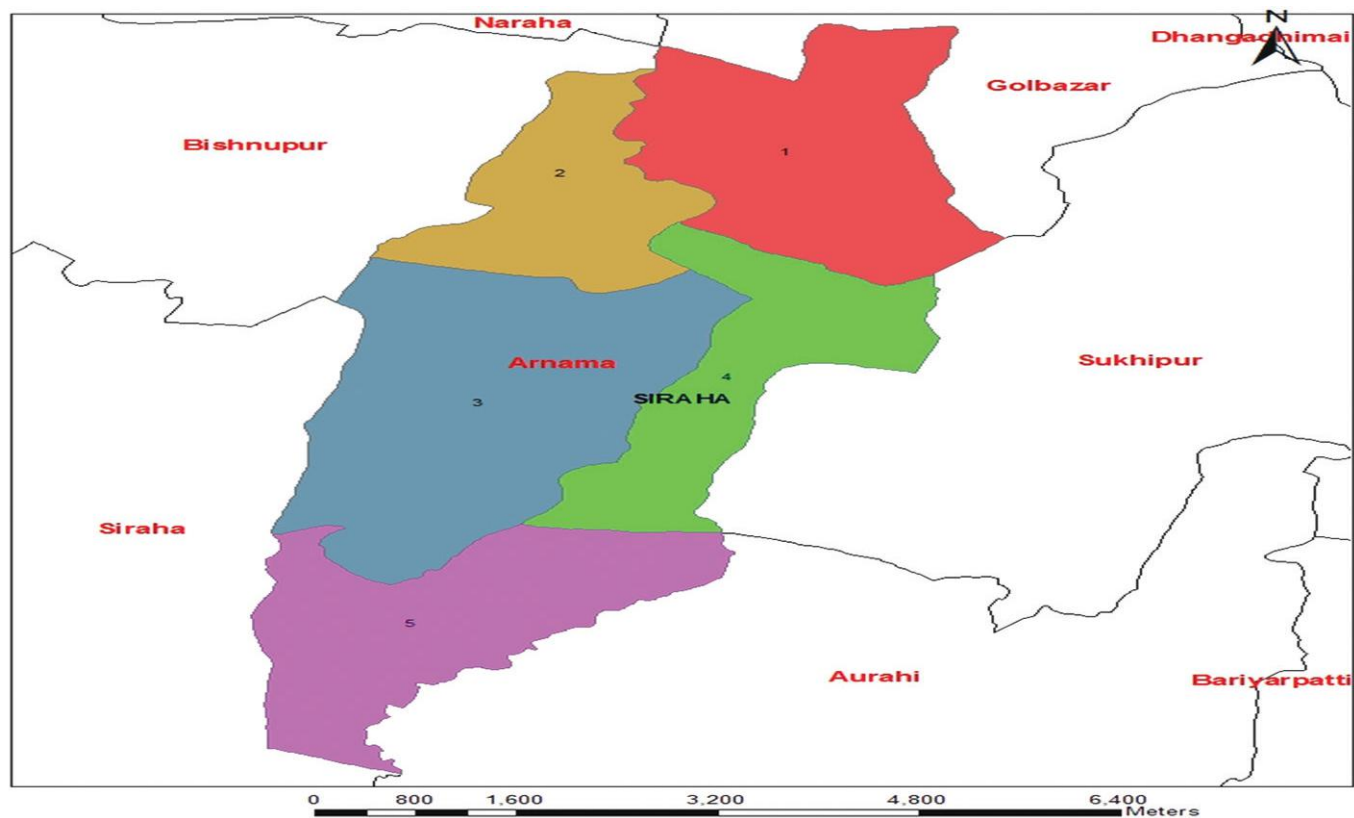
Ward Wise Cancer Incidence and Mortality: Sukhipur Rural Municipality



Ward Wise Cancer Incidence and Mortality: Sukhipur Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	0	1	0	0	0
2	2	3	3	6	2	1	3
3	3	0	0	0	0	0	0
4	4	0	1	1	0	0	0
5	5	0	0	0	0	0	0
6	6	0	2	2	0	1	1
7	7	0	1	1	0	0	0
8	8	2	2	4	0	1	1
9	9	1	0	1	0	1	1
10	10	2	0	2	1	0	1
Total		9	9	18	3	4	7

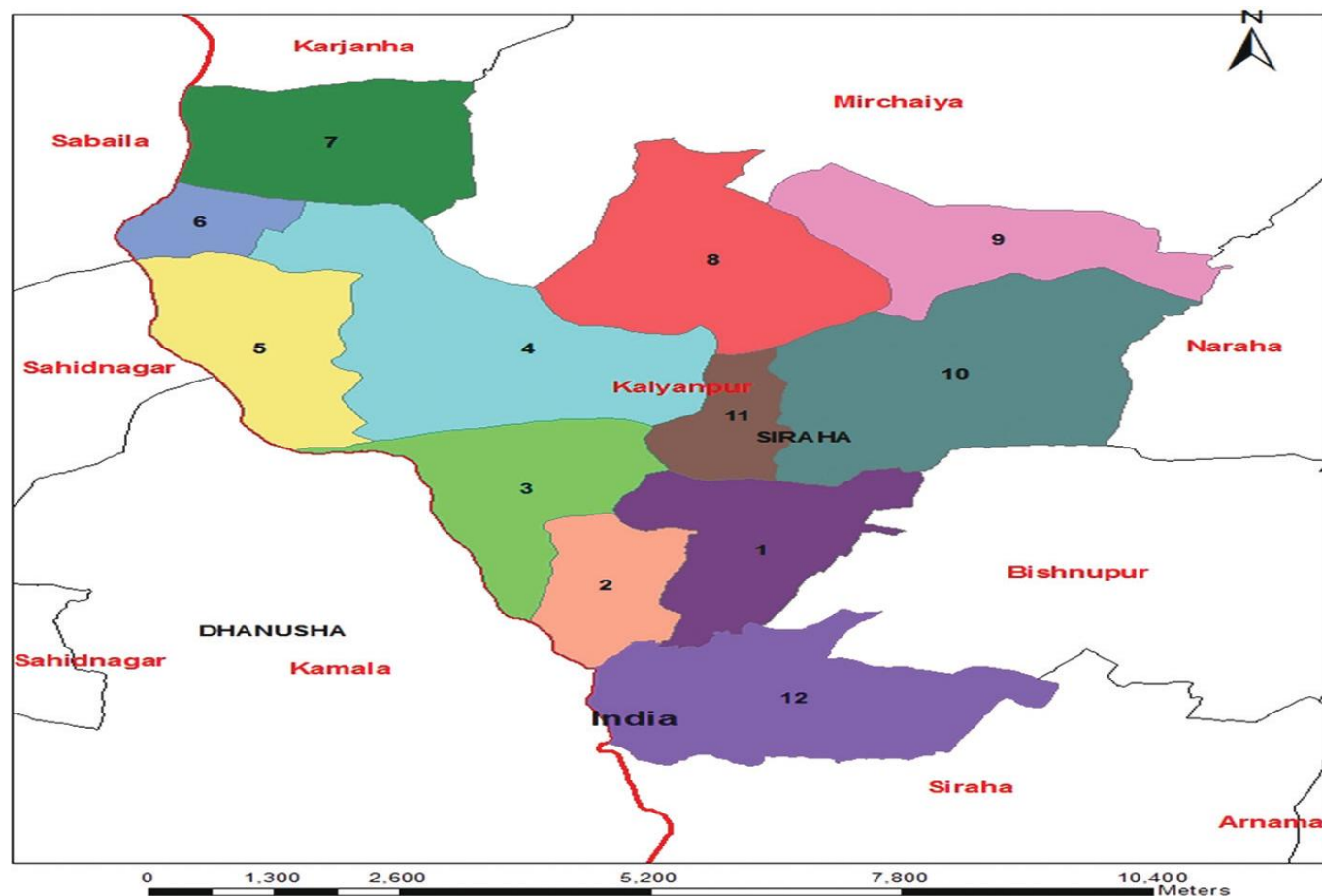
Ward Wise Cancer Incidence and Mortality: Arnama Rural Municipality



Ward Wise Cancer Incidence and Mortality: Arnama Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	2	0	2	1	0	1
3	3	0	2	2	0	1	1
4	4	1	0	1	0	0	0
5	5	0	0	0	0	0	0
Total		3	2	5	1	1	2

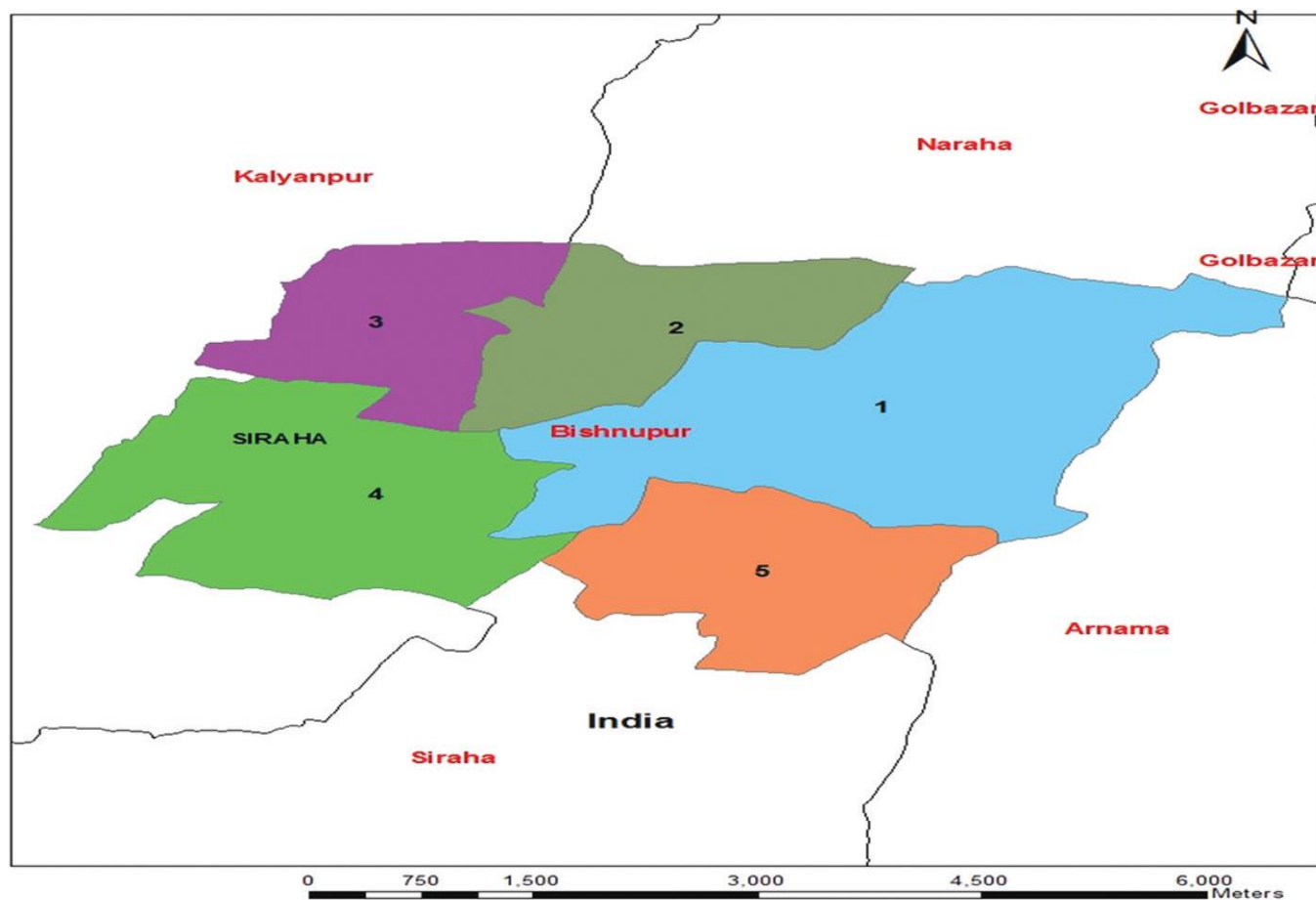
Ward Wise Cancer Incidence and Mortality: Kalyanpur Municipality



Ward Wise Cancer Incidence and Mortality: Kalyanpur Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	2	3	5	1	3	4
2	2	1	1	2	1	1	2
3	3	0	0	0	0	0	0
4	4	1	0	1	2	0	2
5	5	0	0	0	0	0	0
6	6	0	0	0	0	0	0
7	7	2	0	2	1	1	2
8	8	1	2	3	1	2	3
9	9	2	0	2	0	0	0
10	10	1	1	2	1	0	1
11	11	0	0	0	2	0	2
12	99	2	1	3	1	0	1
Total		12	8	20	10	7	17

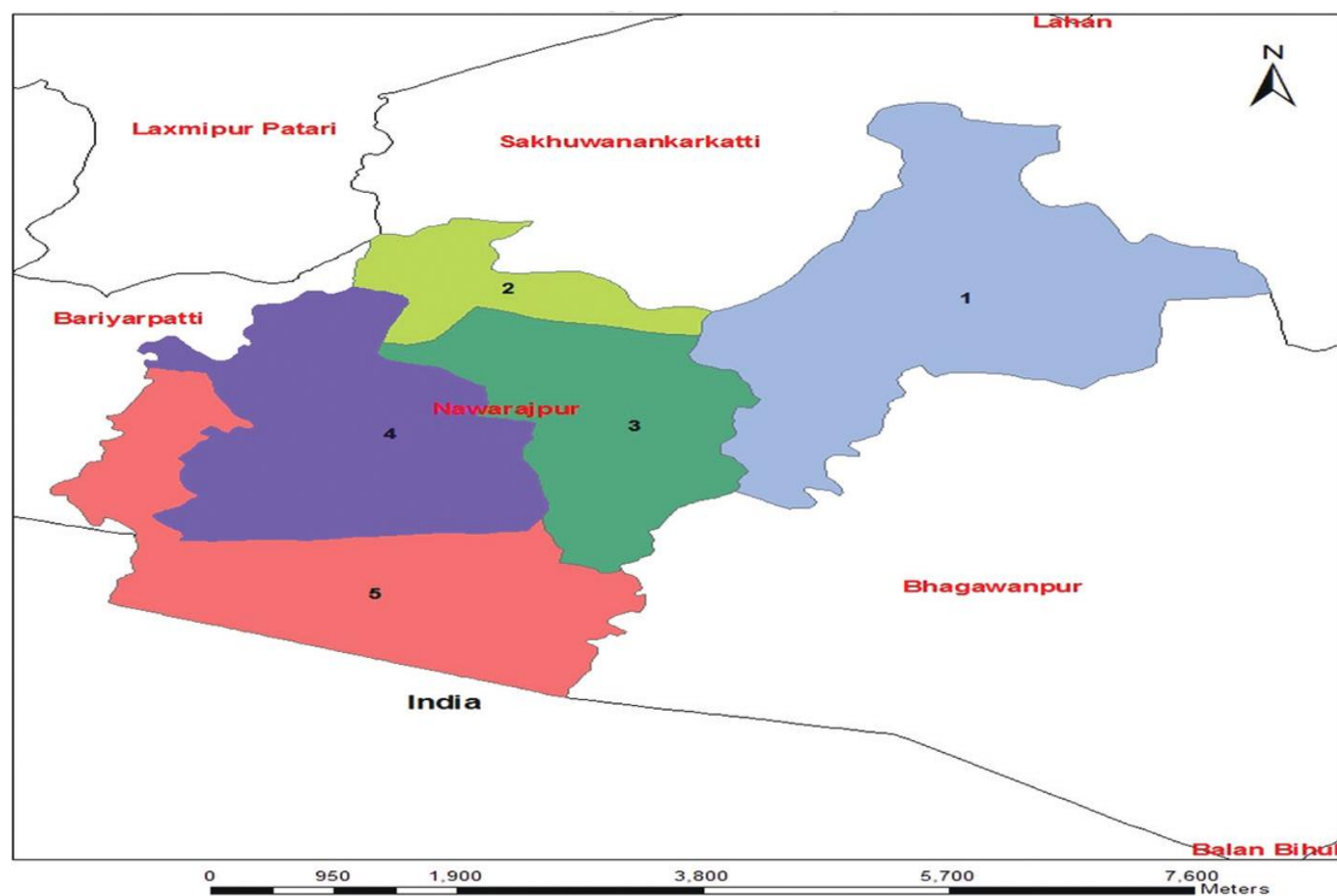
Ward Wise Cancer Incidence and Mortality: Bishnupur Rural Municipality



Ward Wise Cancer Incidence and Mortality: Bishnupur Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	1	1	2	0	1	1
3	3	1	2	3	1	0	1
4	4	0	1	1	0	0	0
5	5	1	0	1	0	0	0
Total		3	4	7	1	1	2

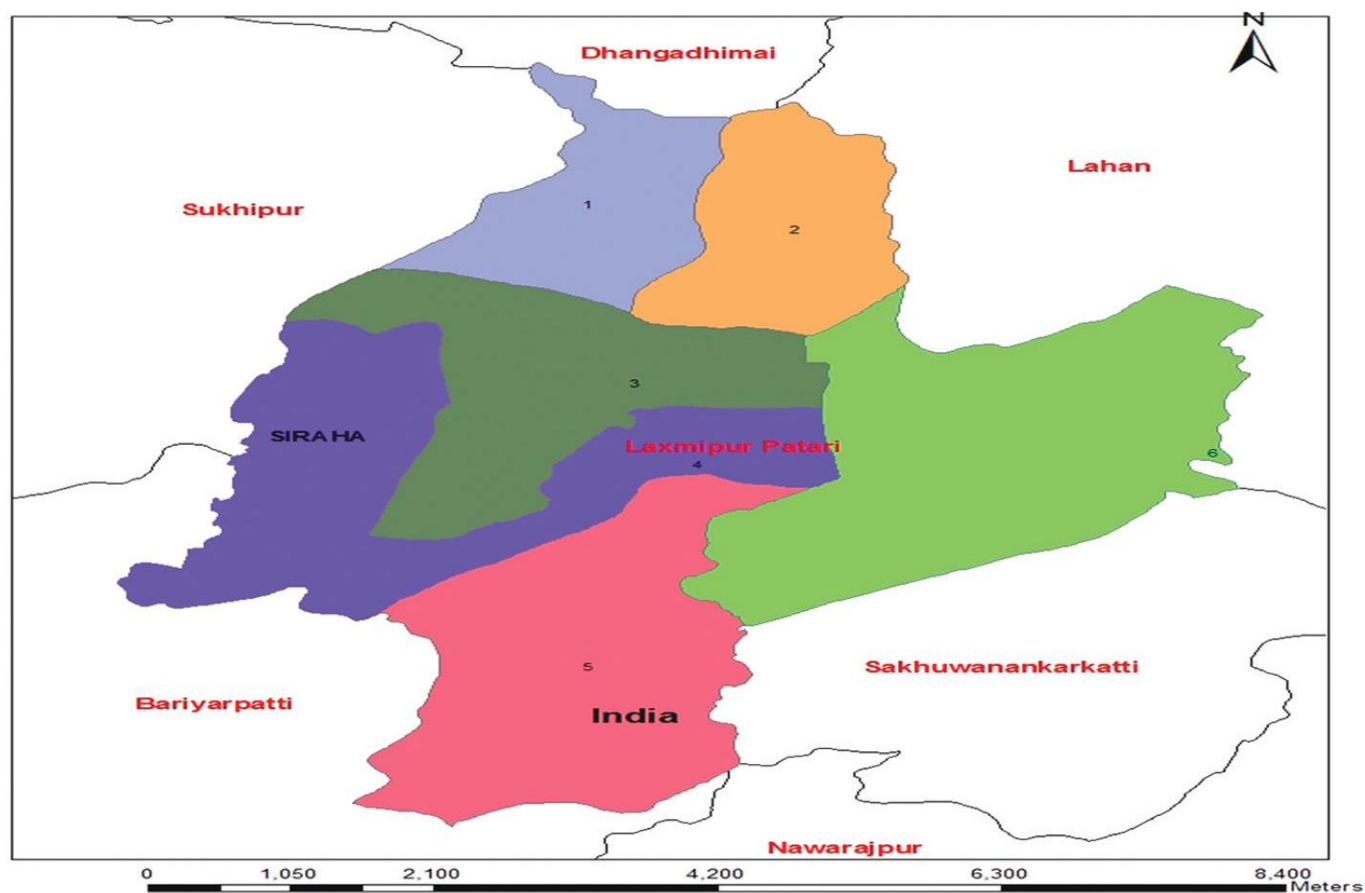
Ward Wise Cancer Incidence and Mortality: Navarajpur Rural Municipality



Ward Wise Cancer Incidence and Mortality: Navarajpur Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	3	4	1	2	3
2	2	2	0	2	2	0	2
3	3	1	1	2	0	1	1
4	4	3	0	3	0	1	1
5	5	1	1	2	0	0	0
Total		8	5	13	3	4	7

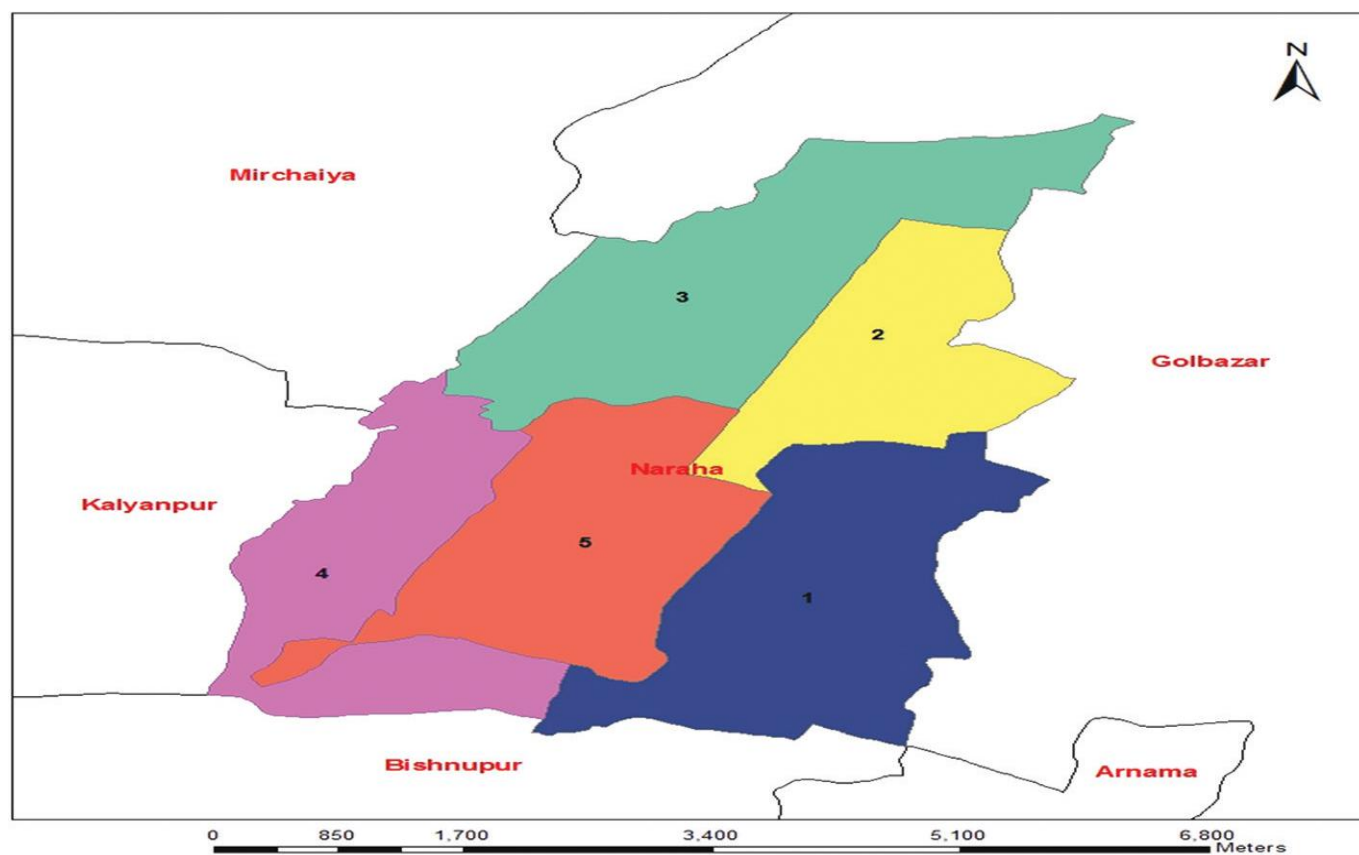
Ward Wise Cancer Incidence and Mortality: Laxmipur Patari Rural Municipality



Ward Wise Cancer Incidence and Mortality: Laxmipur Patari Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	1	2	0	0	0
2	2	0	2	2	0	0	0
3	3	1	1	2	0	0	0
4	4	0	1	1	0	0	0
5	5	0	1	1	0	1	1
6	6	1	3	4	0	0	0
Total		3	9	12	0	1	1

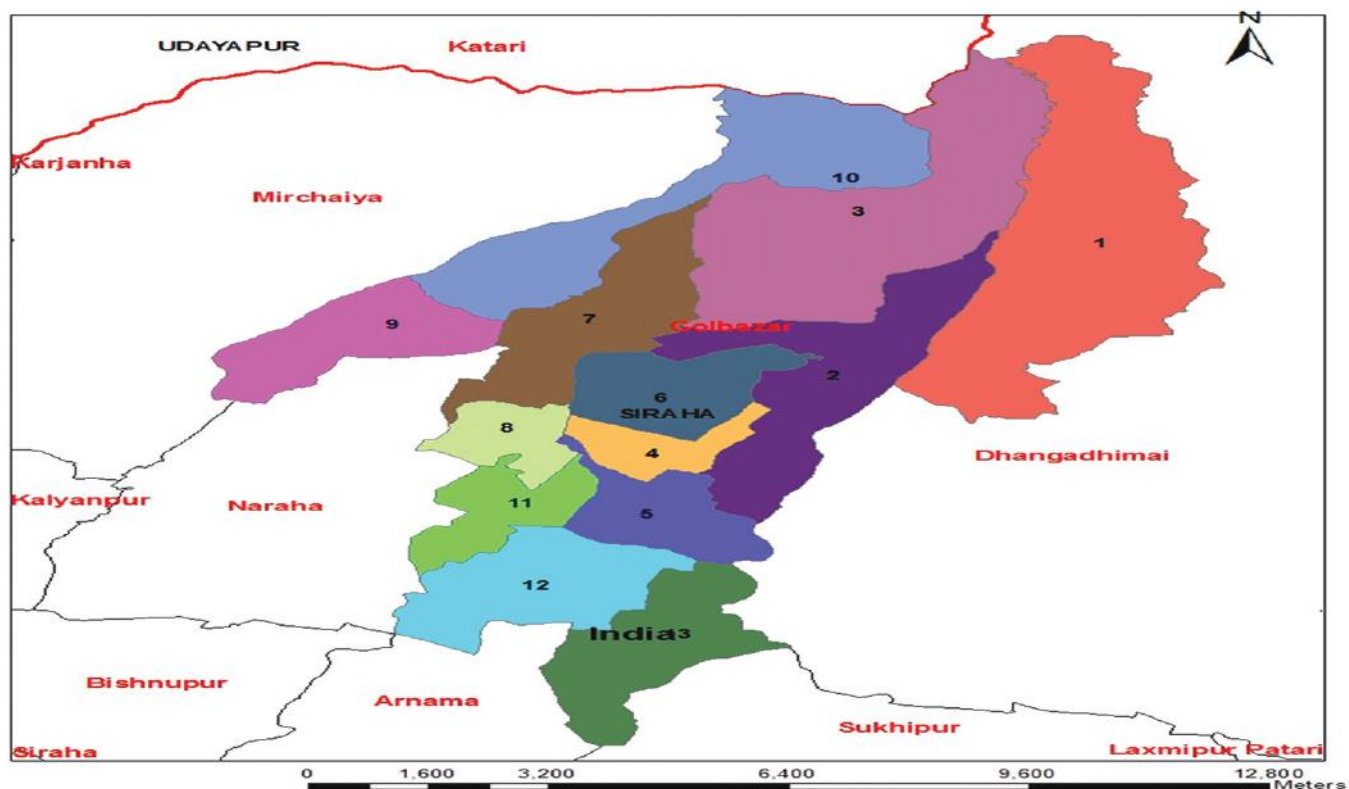
Ward Wise Cancer Incidence and Mortality: Narha Rural Municipality



Ward Wise Cancer Incidence and Mortality: Narha Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	4	4	0	2	2
2	2	0	1	1	0	0	0
3	3	0	1	1	0	1	1
4	4	0	0	0	0	0	0
5	5	3	0	3	0	0	0
6	Unknown	1	0	1	0	0	0
Total		4	6	10	0	3	3

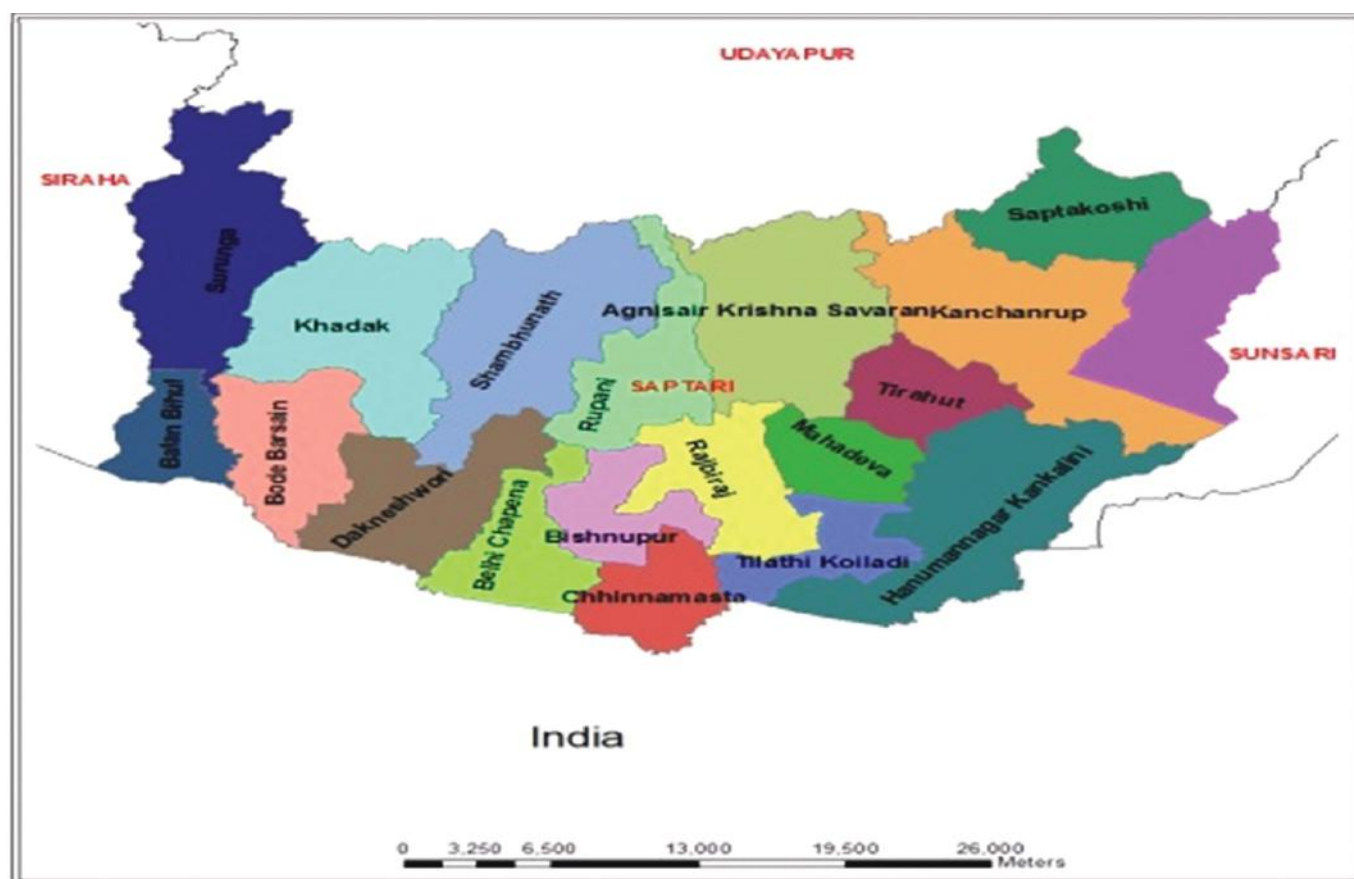
Ward Wise Cancer Incidence and Mortality: Golbazaar Municipality



Ward Wise Cancer Incidence and Mortality: Golbazaar Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	1	2	0	0	0
2	2	3	1	4	0	0	0
3	3	0	1	1	0	0	0
4	4	2	2	4	2	0	2
5	5	3	1	4	1	1	2
6	6	1	3	4	0	0	0
7	7	1	1	2	0	0	0
8	8	0	0	0	0	0	0
9	9	3	1	4	2	0	2
10	10	1	0	1	0	0	0
11	11	1	1	2	0	0	0
12	12	0	1	1	0	0	0
13	13	0	0	0	0	0	0
Total		16	13	29	5	1	6

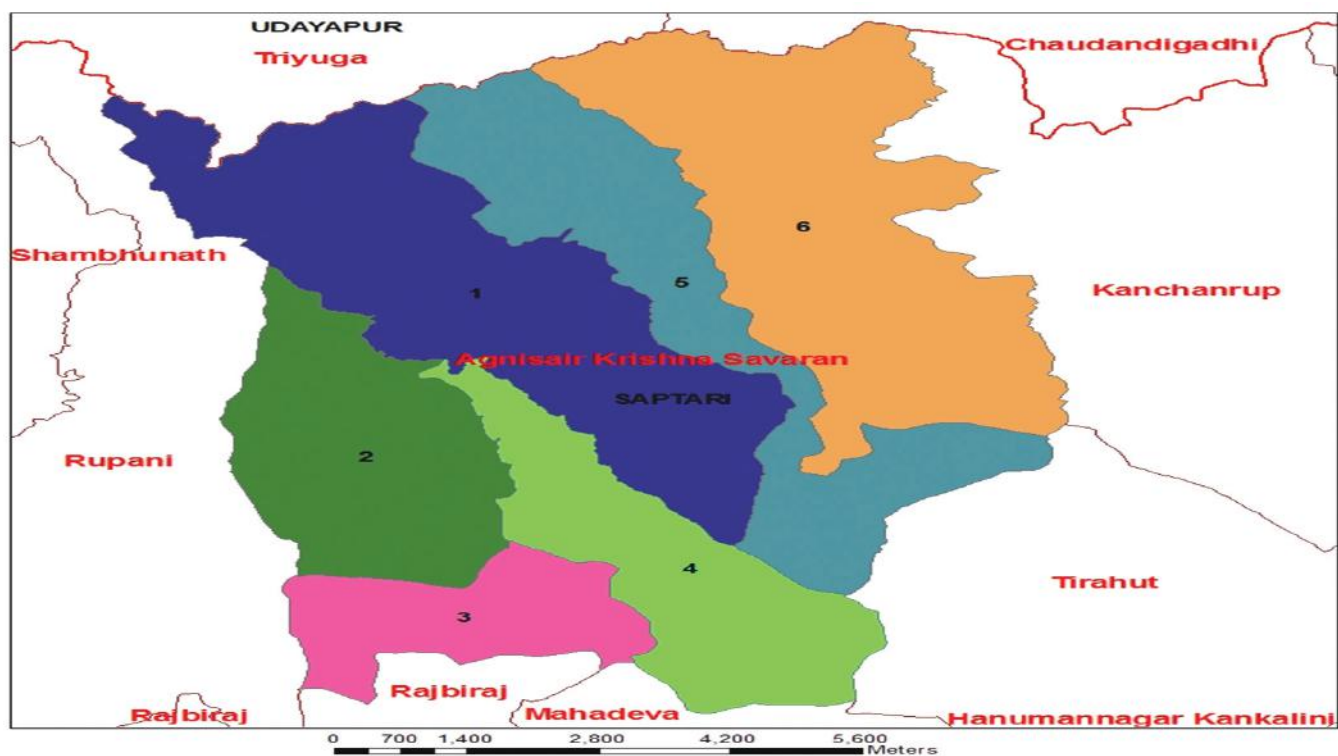
Urban/Rural Municipality Wise Cancer Incidence and Mortality: Saptari District



Urban/Rural Municipality Wise Cancer Incidence and Mortality: Saptari District

SN	Municipality/Village Council	Incidence Cases			Mortality Cases		
		Male	Female	Total	Male	Female	Total
1	Agnisair Krishna Savaran Rural Municipality	8	6	14	3	1	4
2	Bode Barsain Rural Municipality	8	3	11	3	2	5
3	Balan Bihul Rural Municipality	4	2	6	4	0	4
4	BelhiChapena Rural Municipality	7	1	8	1	0	1
5	Bishnupur Rural Municipality	4	1	5	0	0	0
6	Chhinamasta Rural Municipality	6	4	10	2	2	4
7	Dakneshwori Municipality	9	3	12	4	1	5
8	Hanumannagar Kankalinii Municipality	12	2	14	3	3	6
9	Kanchanrup Municipality	21	12	32	3	5	8
10	Khadak Municipality	4	7	11	1	3	4
11	Mahadeva Rural Municipality	5	4	9	2	1	3
12	Rajbiraj Municipality	21	13	34	3	3	6
13	Rupani Rural Municipality	3	5	8	1	1	2
14	Saptakoshi Municipality	4	8	12	0	3	3
15	Shambhunath Municipality	12	7	19	4	2	6
16	Surunga Municipality	9	7	16	2	2	4
17	Tirahut Rural Municipality	5	8	13	4	2	6
18	Tilathi Koiladi Rural Municipality	8	9	17	3	2	5
19	Unknown	24	23	47	1	1	2
Total		174	125	298	44	34	78

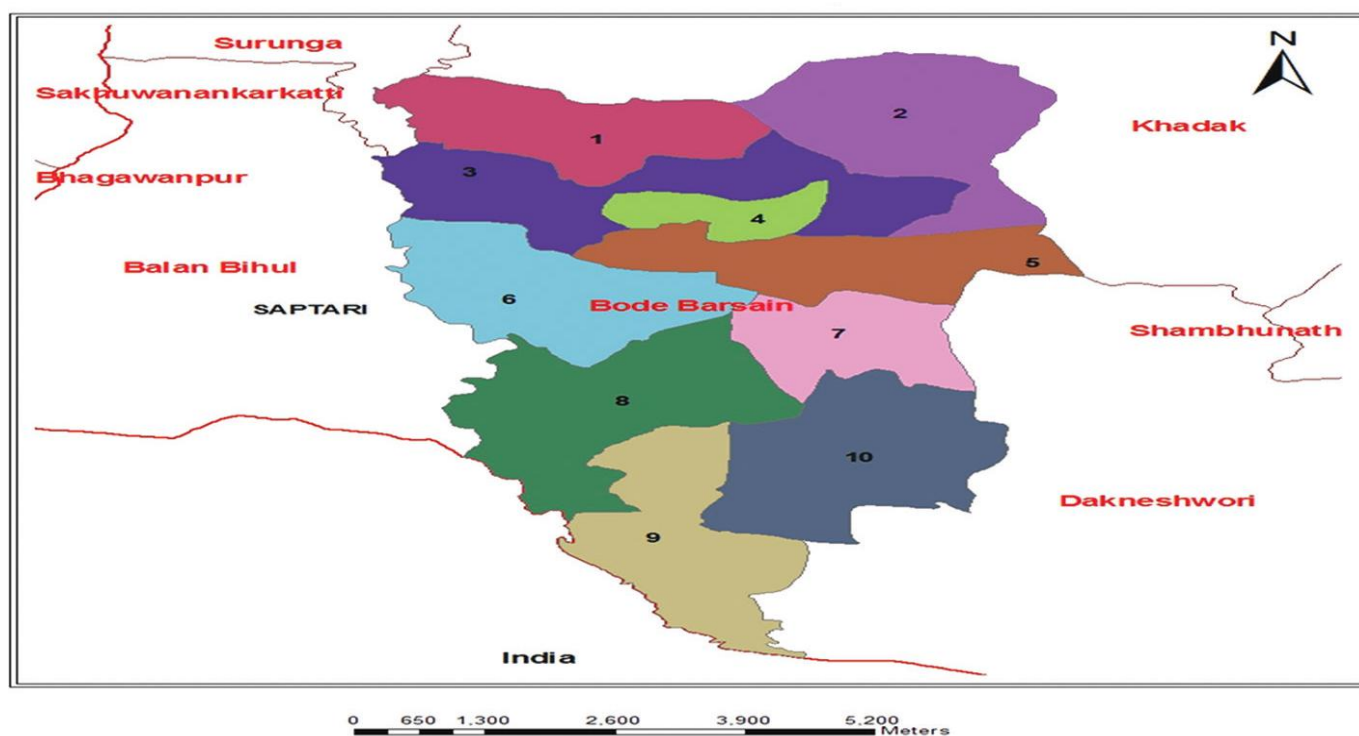
Ward Wise Cancer Incidence and Mortality: Agnisair Krishna Savaran Rural Municipality



Ward Wise Cancer Incidence and Mortality: Agnisair Krishna Savaran Rural Municipality

S.N	Ward Number	Incidence Cases			Mortality Cases		
		Male	Female	Total	Male	Female	Total
1	1	2	1	3	1	1	2
2	2	1	0	1	1	0	1
3	3	3	0	3	0	0	0
4	4	1	2	3	0	0	0
5	5	0	1	1	0	0	0
6	6	1	1	2	1	0	1
7	7	0	0	0	0	0	0
8	8	0	0	0	0	0	0
9	9	0	1	1	0	0	0
Total		8	6	14	3	1	4

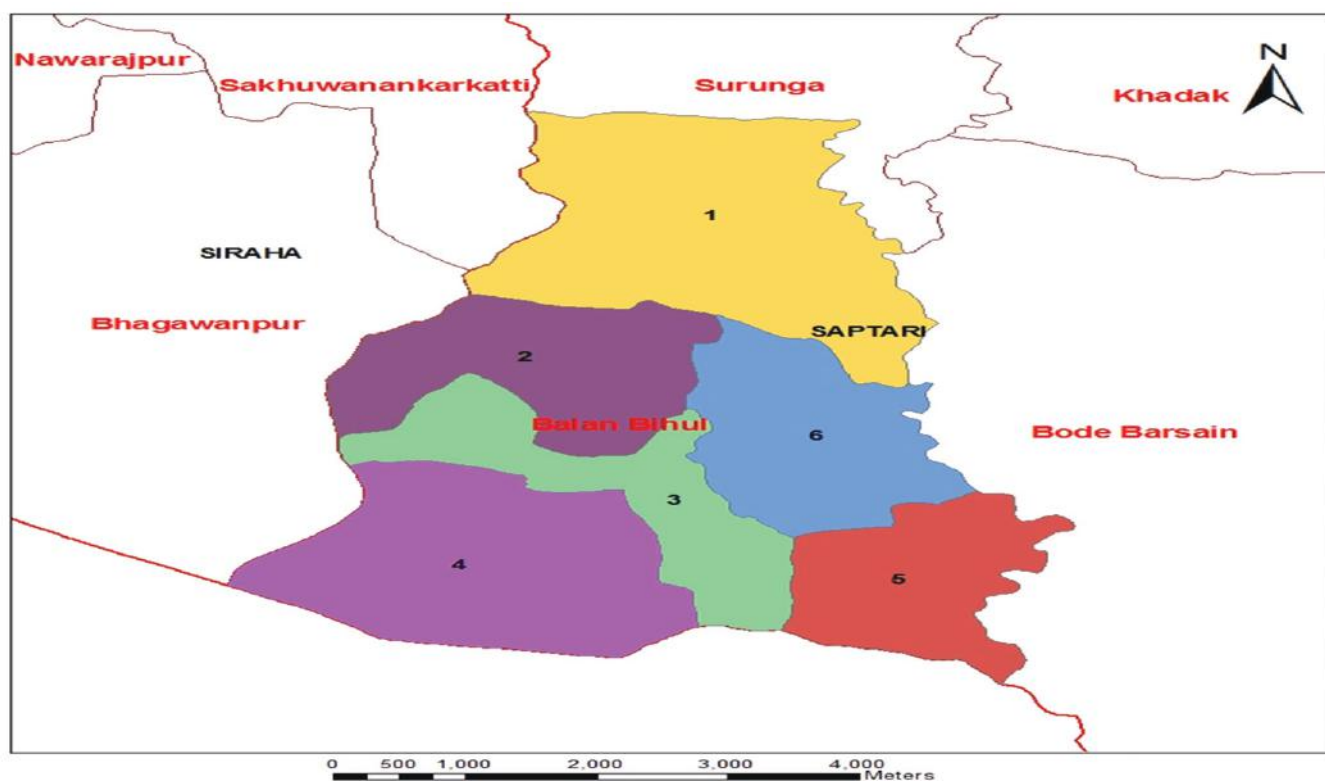
Ward Wise Cancer Incidence and Mortality: Bode Barsain Rural Municipality



Ward Wise Cancer Incidence and Mortality: Bode Barsain Rural Municipality

S.N	Ward No	Incidence cases			Mortality cases		
		Male	Female	Total	Male	Female	Total
1	1	2	1	3	2	0	2
2	2	1	0	1	0	0	0
3	3	1	0	1	0	0	0
4	4	1	0	1	0	0	0
5	5	0	0	0	0	0	0
6	6	1	1	2	0	1	1
7	7	1	0	1	1	0	1
8	8	0	0	0	0	1	1
9	9	1	1	2	0	0	0
10	10	0	0	0	0	0	0
Total		8	3	11	3	2	5

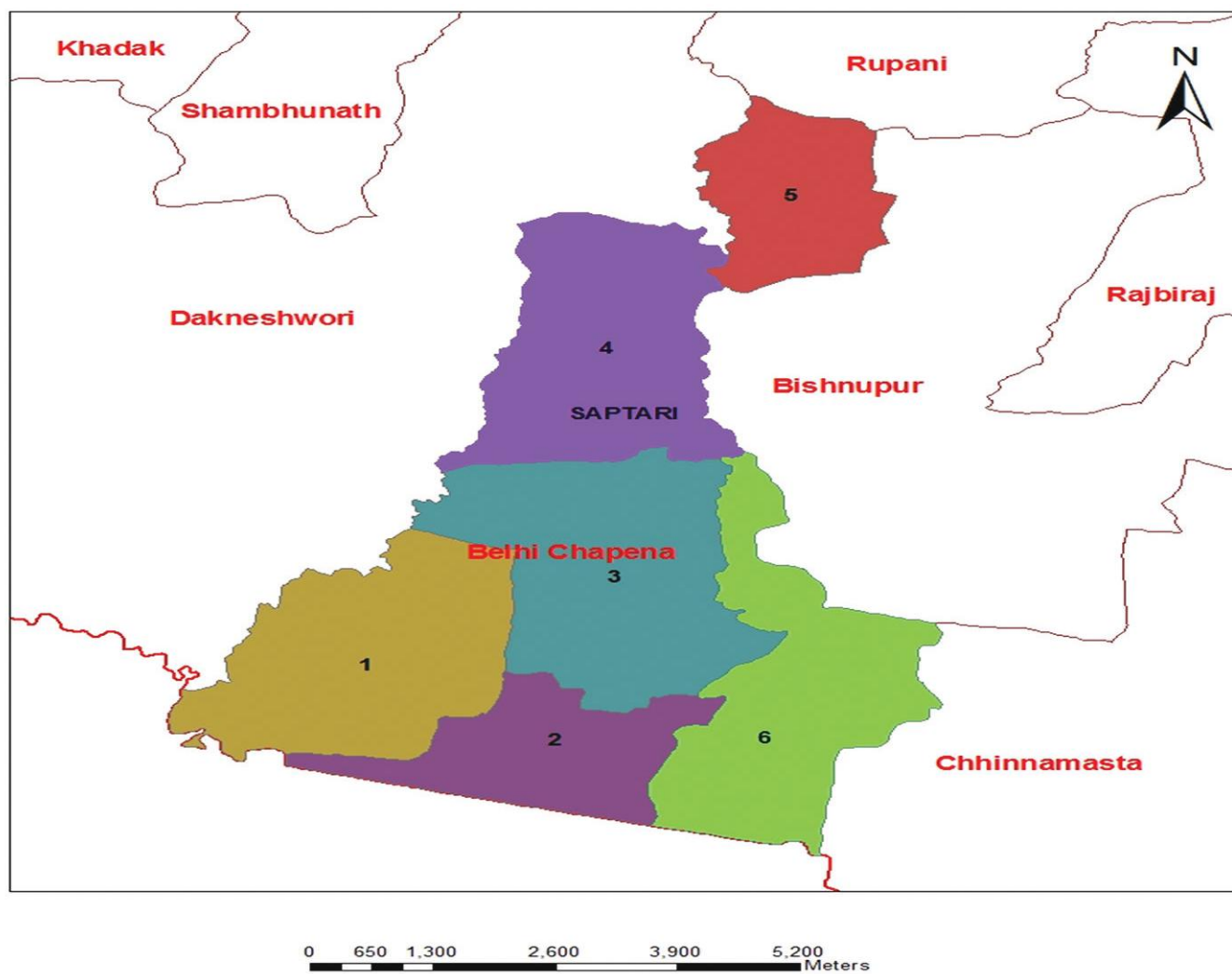
Ward Wise Cancer Incidence and Mortality: Balan Bihul Rural Municipality



Ward Wise Cancer Incidence and Mortality: Balan Bihul Rural Municipality

SN	Ward No	Incidence Cases			Mortality Cases		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	2	0	2	2	0	2
3	3	0	0	0	1	0	1
4	4	1	2	3	1	0	1
5	5	0	0	0	0	0	0
6	6	1	0	1	0	0	0
Total		4	2	6	4	0	4

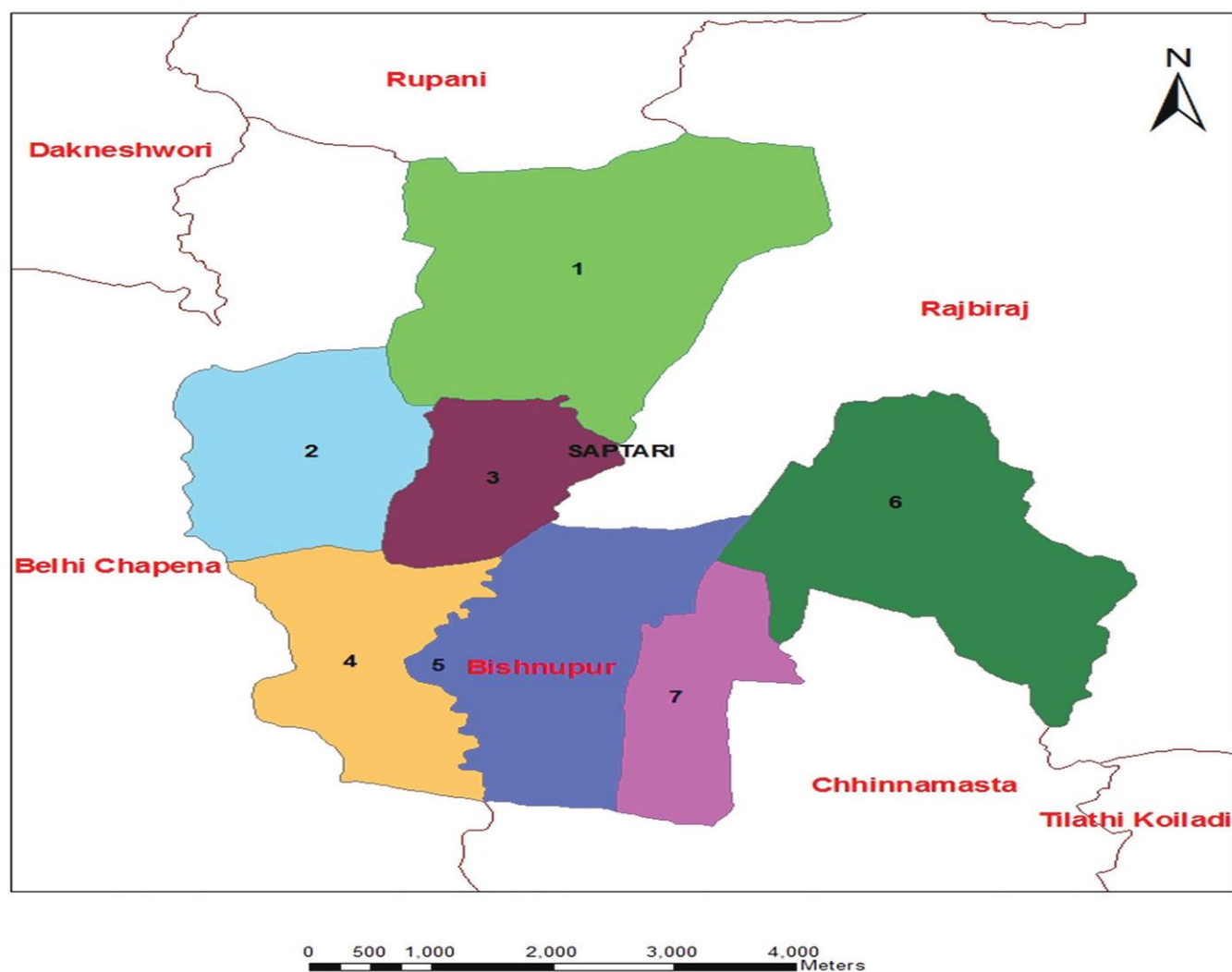
Ward Wise Cancer Incidence and Mortality: Belhi Chapena Rural Municipality



Ward Wise Cancer Incidence and Mortality: Belhi Chapena Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	1	0	1	1	0	1
3	3	0	1	1	0	0	0
4	4	2	0	2	0	0	0
5	5	1	0	1	0	0	0
6	6	2	0	2	0	0	0
7	Unknown	1	0	1	0	0	0
Total		7	1	8	1	0	1

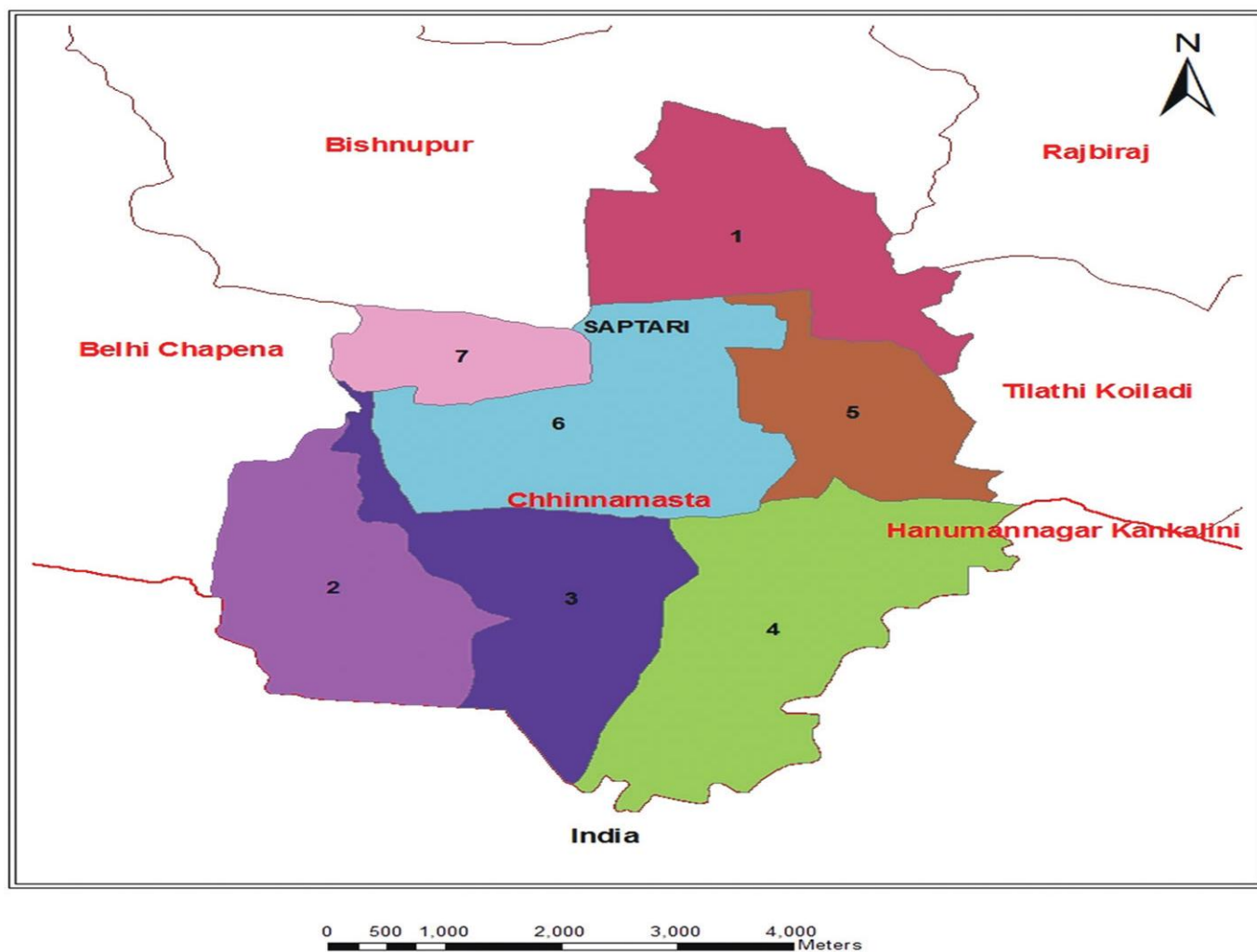
Ward Wise Cancer Incidence and Mortality: Bishnupur Rural Municipality



Ward Wise Cancer Incidence and Mortality: Bishnupur Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	3	0	3	0	0	0
2	2	0	0	0	0	0	0
3	3	0	0	0	0	0	0
4	4	0	0	0	0	0	0
5	5	0	0	0	0	0	0
6	6	0	0	0	0	0	0
7	7	0	1	1	0	0	0
8	Unknown	1	0	1	0	0	0
Total		4	1	5	0	0	0

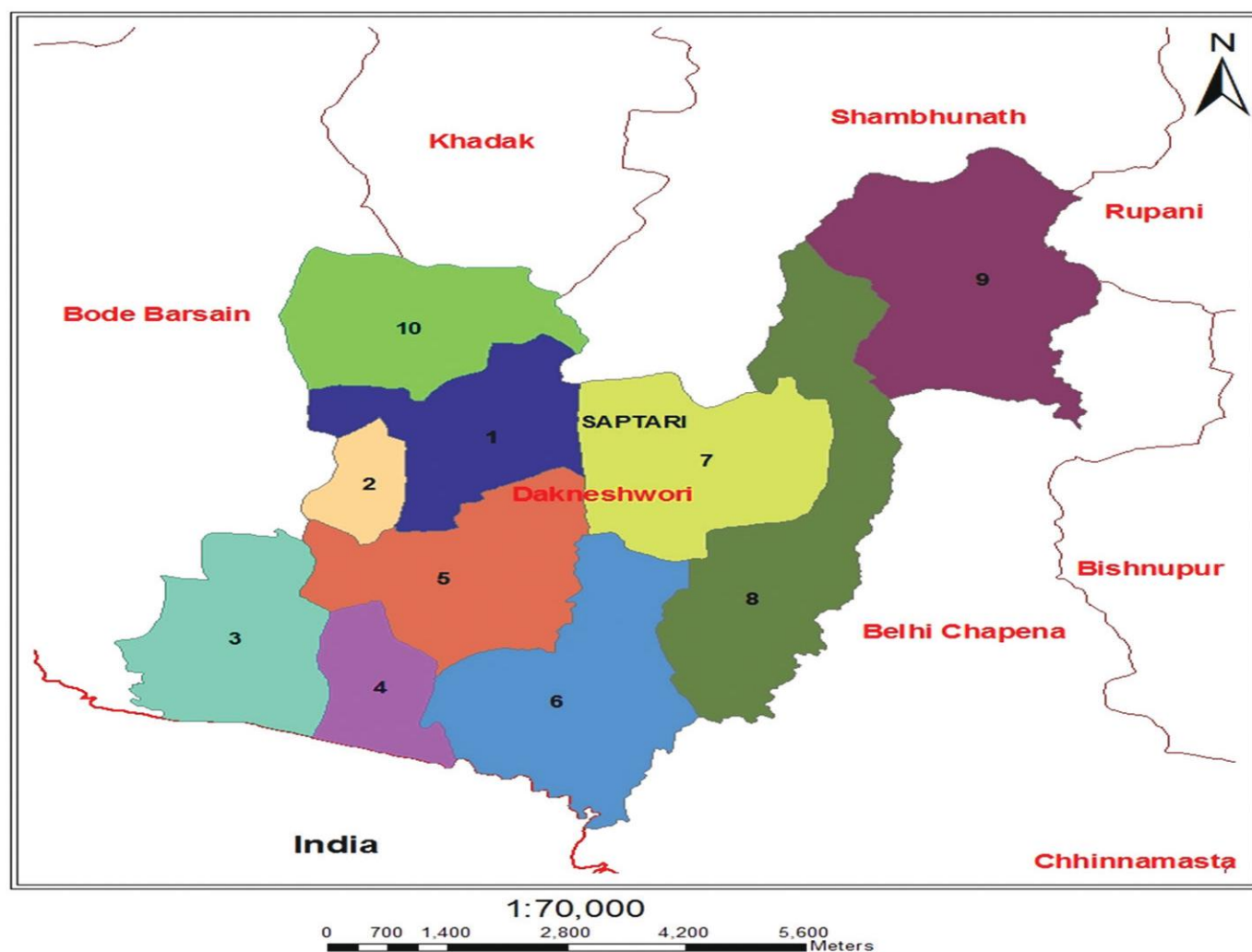
Ward Wise Cancer Incidence and Mortality: Chhinamasta Rural Municipality



Ward Wise Cancer Incidence and Mortality: Chhinamasta Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	0	0	0	1	0	1
3	3	0	1	1	1	0	1
4	4	0	1	1	0	1	1
5	5	1	0	1	0	0	0
6	6	1	1	2	0	1	1
7	7	3	0	3	0	0	0
8	Unknown	1	1	2	0	0	0
Total		6	4	10	2	2	4

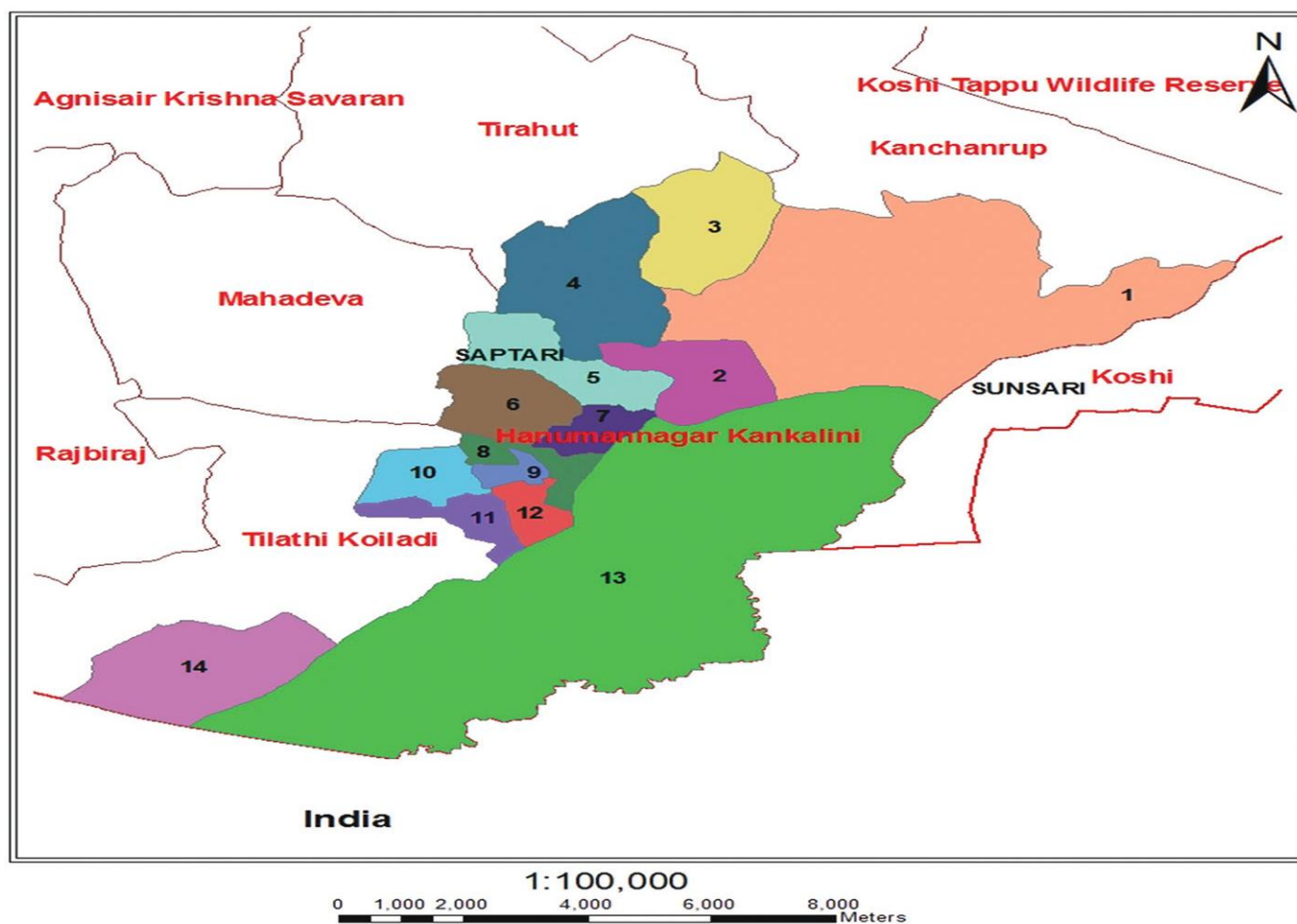
Ward Wise Cancer Incidence and Mortality: Dakneshwori Municipality



Ward Wise Cancer Incidence and Mortality: Dakneshwori Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	1	0	1	1	0	1
3	3	0	0	0	0	0	0
4	4	0	0	0	0	0	0
5	5	2	0	2	0	0	0
6	6	1	1	2	0	0	0
7	7	1	0	1	0	0	0
8	8	0	2	2	0	1	1
9	9	1	0	1	1	0	1
10	10	1	0	1	1	0	1
11	Unknown	2	0	2	1	0	1
Total		9	3	12	4	1	5

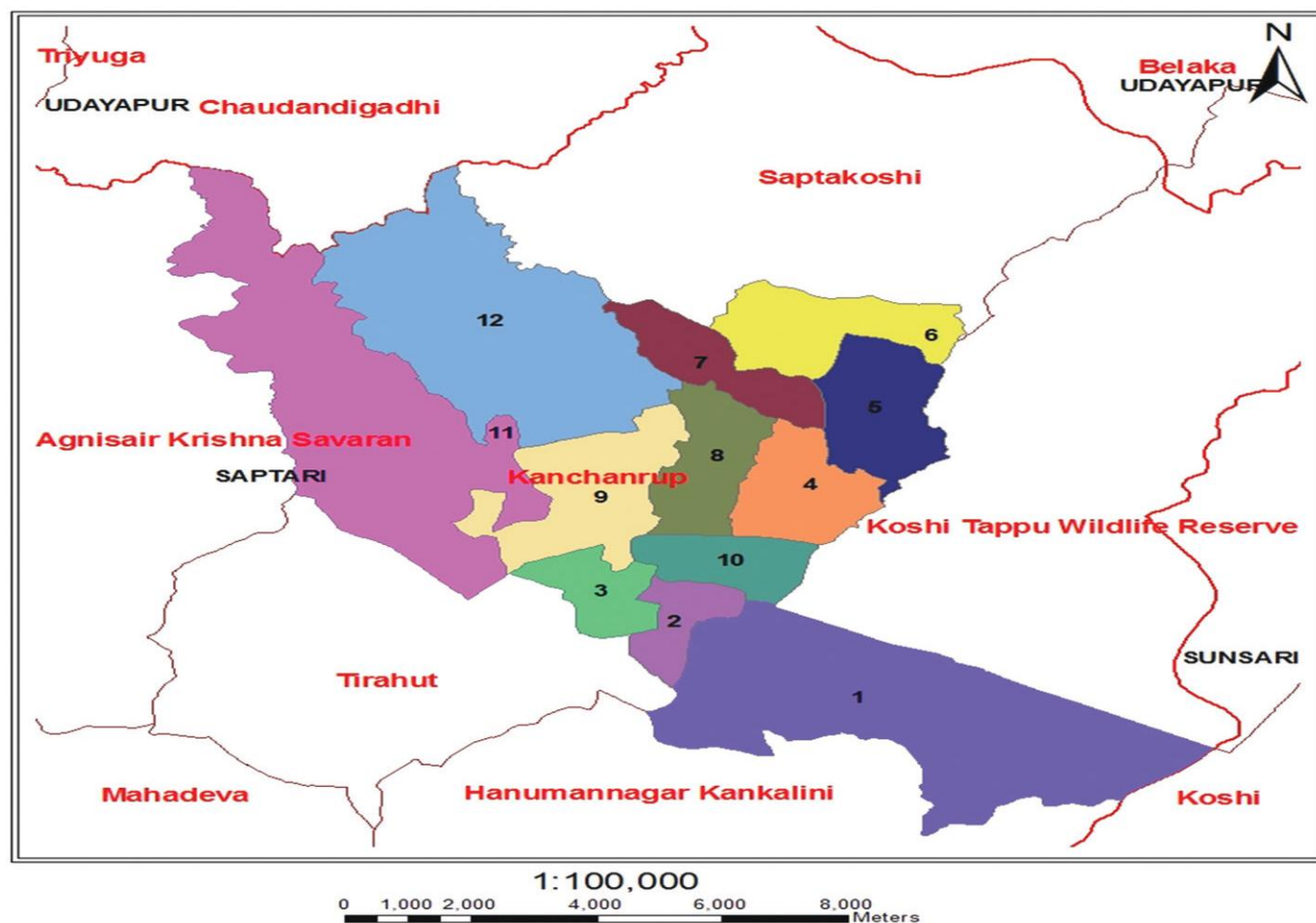
Ward Wise Cancer Incidence and Mortality: Hanumannagar Kankalinii Municipality



Ward Wise Cancer Incidence and Mortality: Hanumannagar Kankalinii Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	3	0	3	0	0	0
2	2	0	0	0	0	0	0
3	3	0	0	0	0	0	0
4	4	0	1	1	1	2	3
5	5	1	1	2	0	1	1
6	6	0	0	0	0	0	0
7	7	1	0	1	0	0	0
8	8	0	0	0	0	0	0
9	9	1	0	1	0	0	0
10	10	0	0	0	0	0	0
11	11	2	0	2	0	0	0
12	12	0	0	0	0	0	0
13	13	0	0	0	0	0	0
14	14	2	0	2	2	0	2
15	Unknown	2	0	2	0	0	0
Total		12	2	14	3	3	6

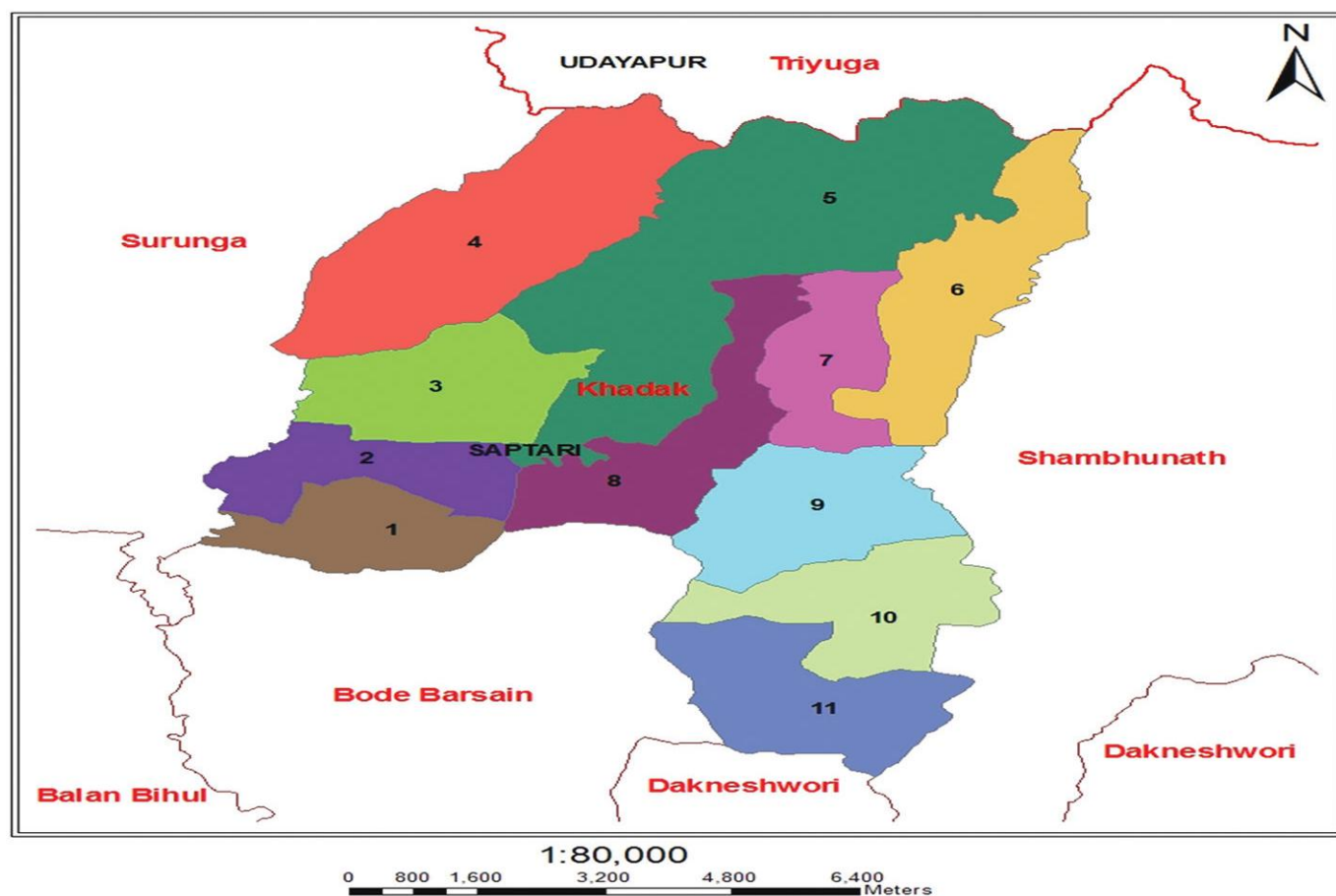
Ward Wise Cancer Incidence and Mortality: Kanchanrup Municipality



Ward Wise Cancer Incidence and Mortality: Kanchanrup Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	5	3	8	2	0	2
2	2	1	3	3	0	1	1
3	3	0	0	0	0	0	0
4	4	1	1	2	1	0	1
5	5	1	1	2	0	1	1
6	6	0	0	0	0	0	0
7	7	3	0	3	0	0	0
8	8	3	0	3	0	0	0
9	9	2	0	2	0	0	0
10	10	2	2	4	0	0	0
11	11	1	0	1	0	0	0
12	12	1	1	2	0	3	3
13	Unknown	1	1	2	0	0	0
Total		21	12	32	3	5	8

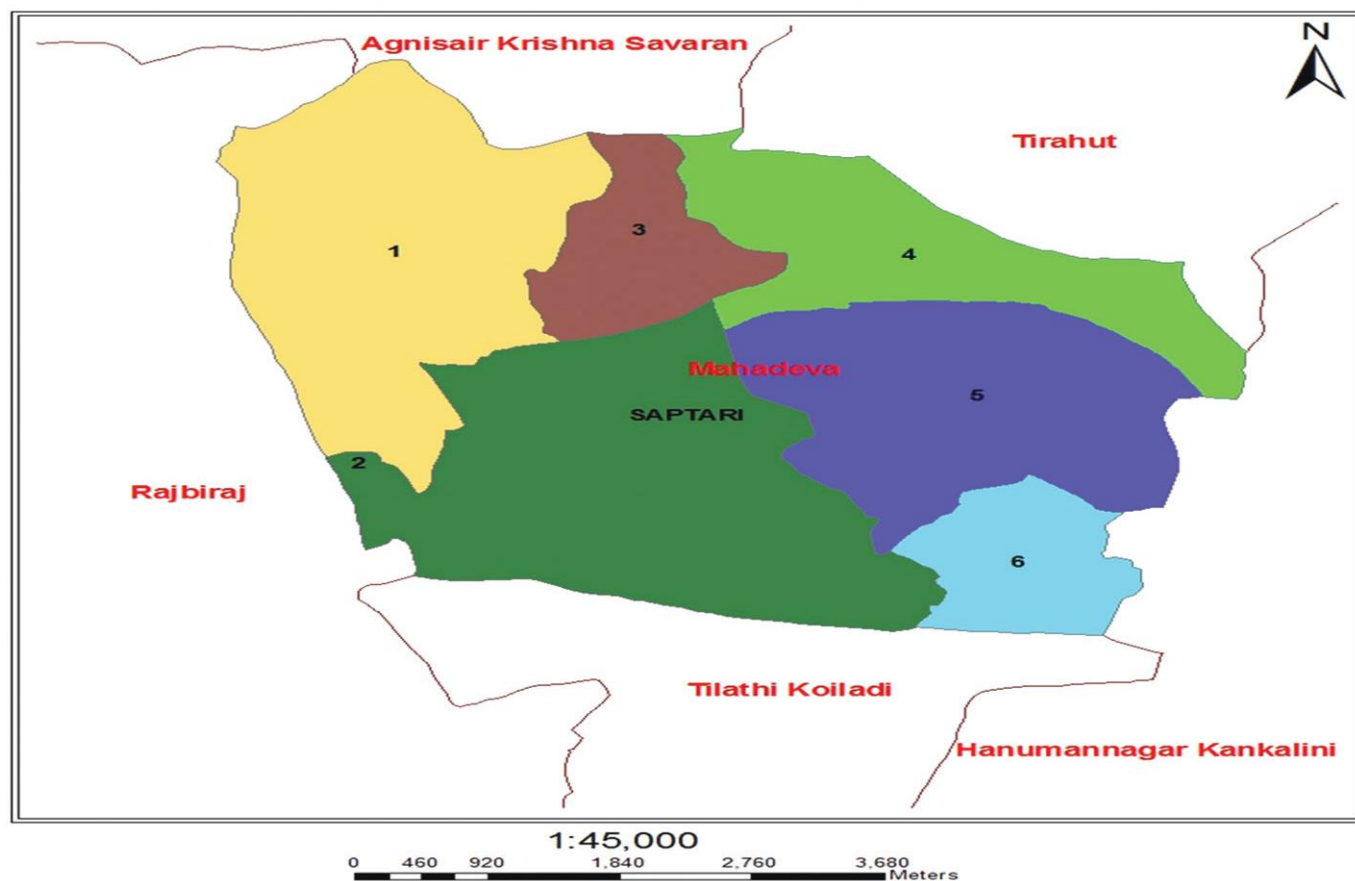
Ward Wise Cancer Incidence and Mortality: Khadak Municipality



Ward Wise Cancer Incidence and Mortality: Khadak Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	0	1	1	0	1	1
3	3	0	1	1	0	0	0
4	4	0	0	0	0	0	0
5	5	0	2	2	0	0	0
6	6	1	1	2	0	1	1
7	7	0	0	0	0	0	0
8	8	0	2	2	0	0	0
9	9	1	0	1	0	0	0
10	10	1	0	1	0	1	1
11	11	1	0	1	1	0	1
Total		4	7	11	1	3	4

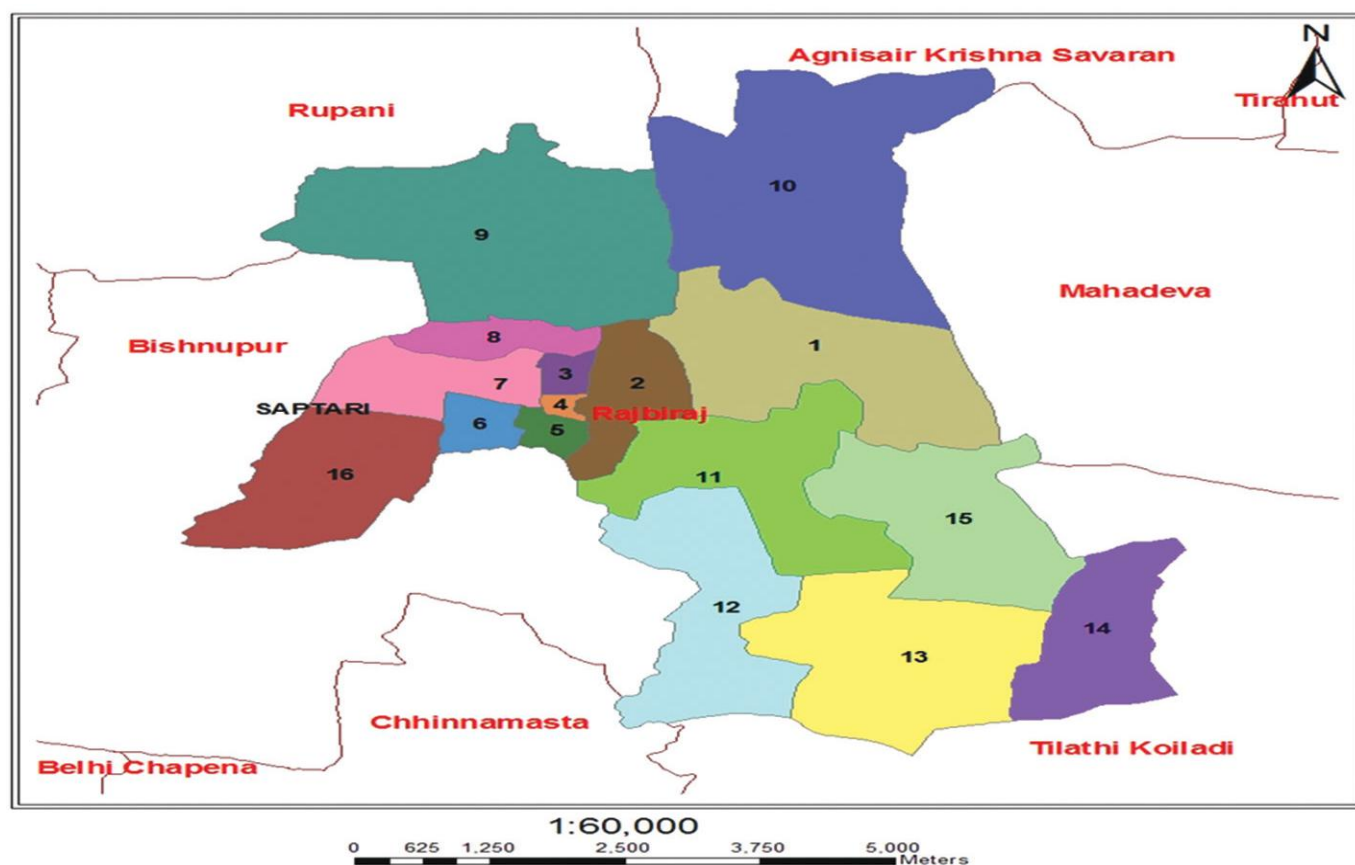
Ward Wise Cancer Incidence and Mortality: Mahadeva Rural Municipality



Ward Wise Cancer Incidence and Mortality: Mahadeva Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	4	0	4	2	0	2
2	2	1	0	1	0	0	0
3	3	0	0	0	0	0	0
4	4	0	2	2	0	0	0
5	5	0	1	1	0	0	0
6	6	0	1	1	0	1	1
Total		5	4	9	2	1	3

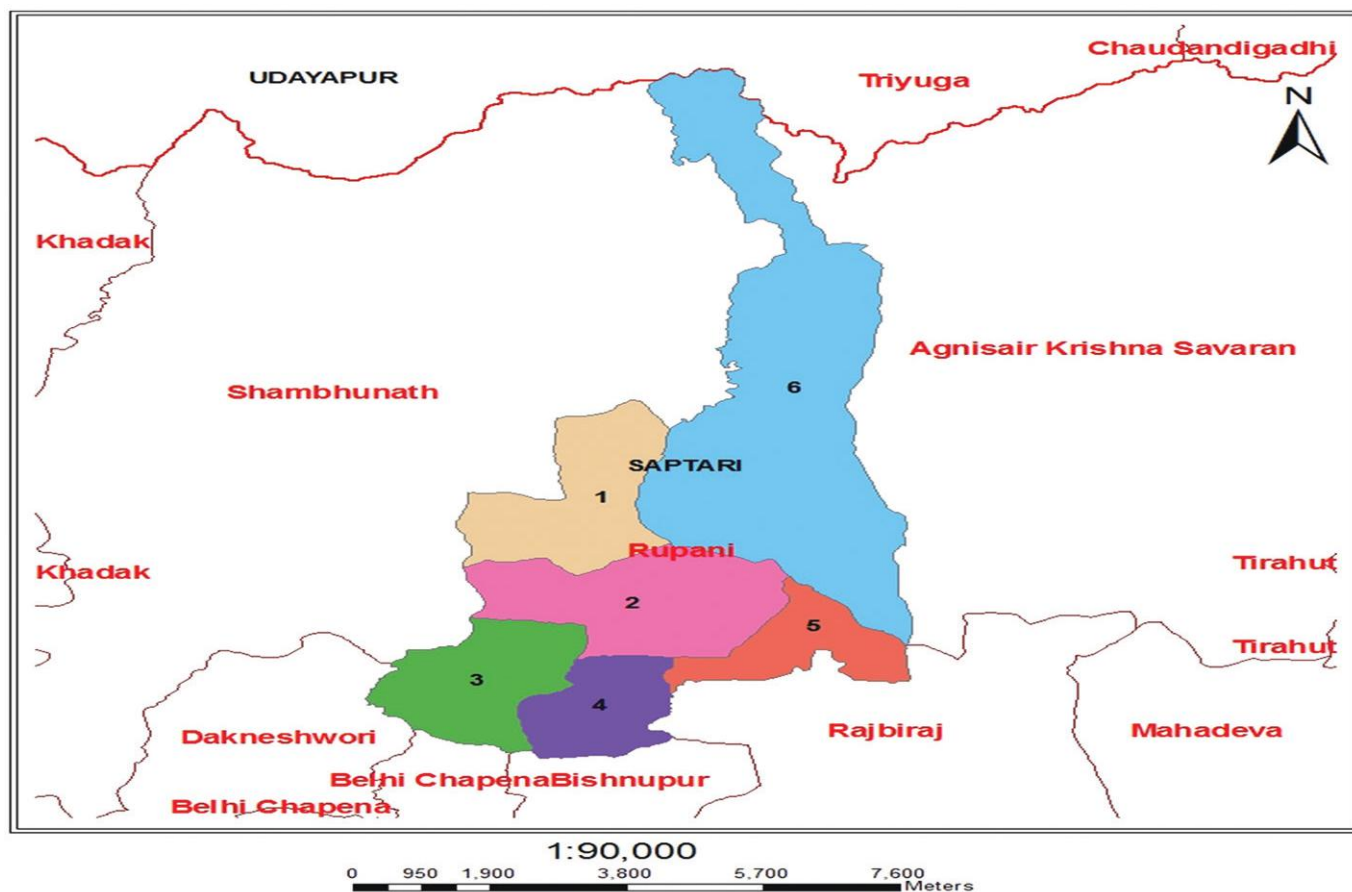
Ward Wise Cancer Incidence and Mortality: Rajbiraj Municipality



Ward Wise Cancer Incidence and Mortality: Rajbiraj Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	4	5	0	1	1
2	2	0	1	1	0	0	0
3	3	0	0	0	0	0	0
4	4	1	1	2	0	0	0
5	5	1	1	2	0	0	0
6	6	3	0	3	0	0	0
7	7	1	2	3	0	1	1
8	8	0	0	0	0	0	0
9	9	0	0	0	1	1	2
10	10	1	0	1	0	0	0
11	11	3	0	3	0	0	0
12	12	4	0	4	1	0	1
13	13	0	1	1	0	0	0
14	14	2	0	2	0	0	0
15	15	0	1	1	1	0	1
16	16	0	0	0	0	0	0
17	Unknown	4	2	6	0	0	0
Total		21	13	34	3	3	6

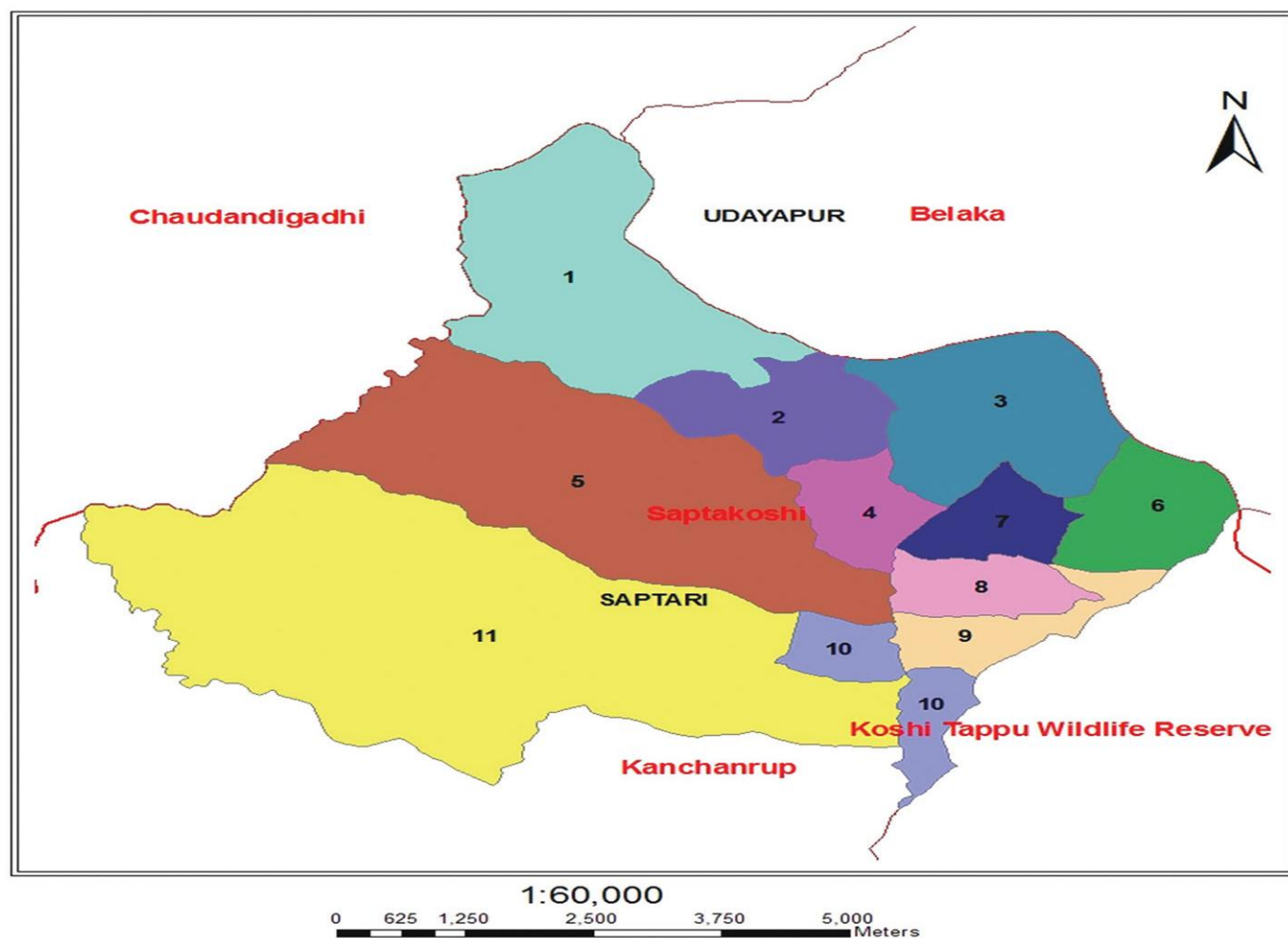
Ward Wise Cancer Incidence and Mortality: Rupani Rural Municipality



Ward Wise Cancer Incidence and Mortality: Rupani Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	1	2	0	1	1
2	2	1	0	1	1	0	1
3	3	0	0	0	0	0	0
4	4	1	0	1	0	0	0
5	5	0	1	1	0	0	0
6	6	0	2	2	0	0	0
7	Unknown	0	1	1	0	0	0
Total		3	5	8	1	1	2

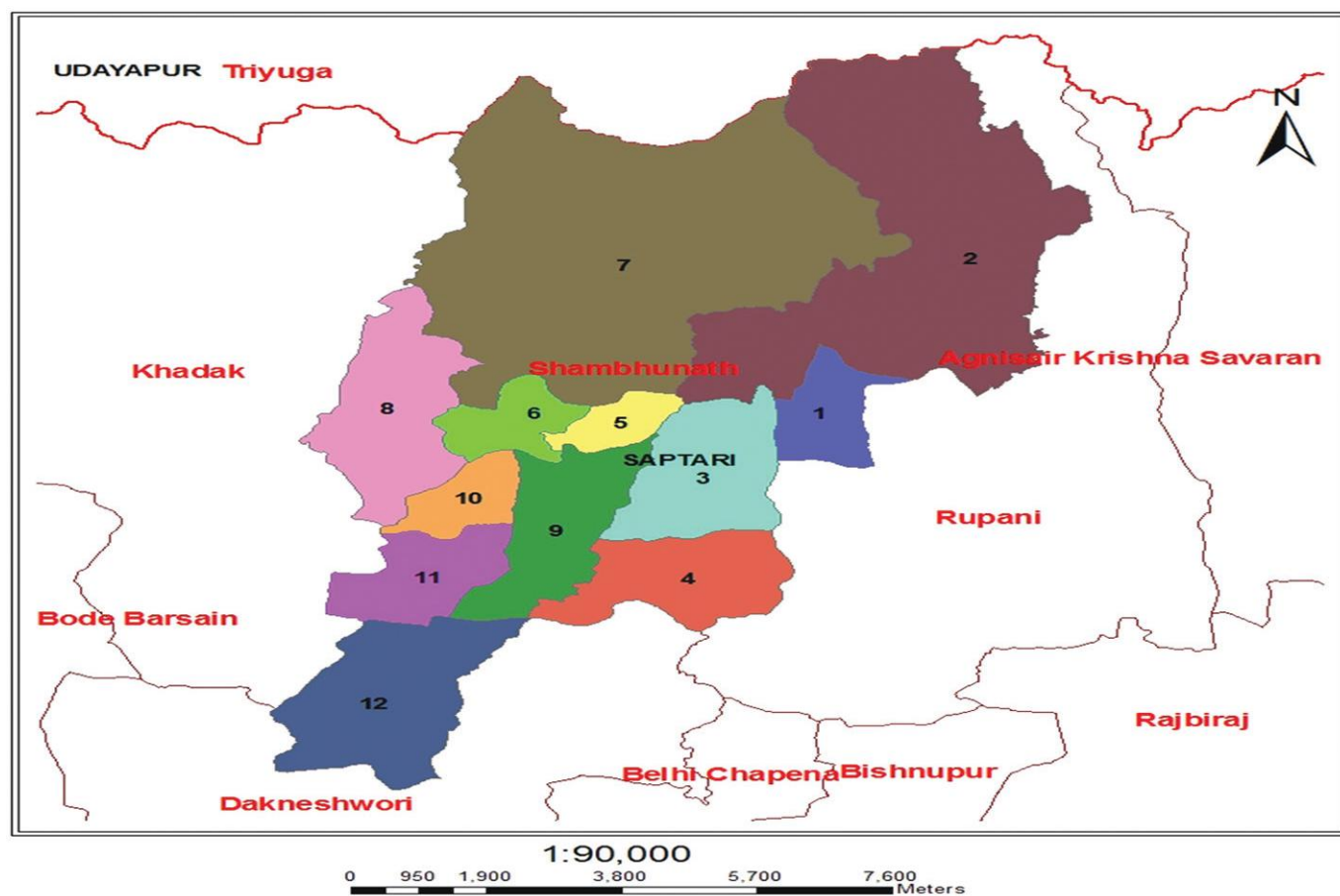
Ward Wise Cancer Incidence and Mortality: Saptakoshi Municipality



Ward Wise Cancer Incidence and Mortality: Saptakoshi Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	1	2	0	0	0
2	2	0	0	0	0	0	0
3	3	0	0	0	0	0	0
4	4	1	0	1	0	0	0
5	5	0	1	1	0	1	1
6	6	1	0	1	0	0	0
7	7	0	1	1	0	1	1
8	8	0	5	5	0	0	0
9	9	1	0	1	0	1	1
Total		4	8	12	0	3	3

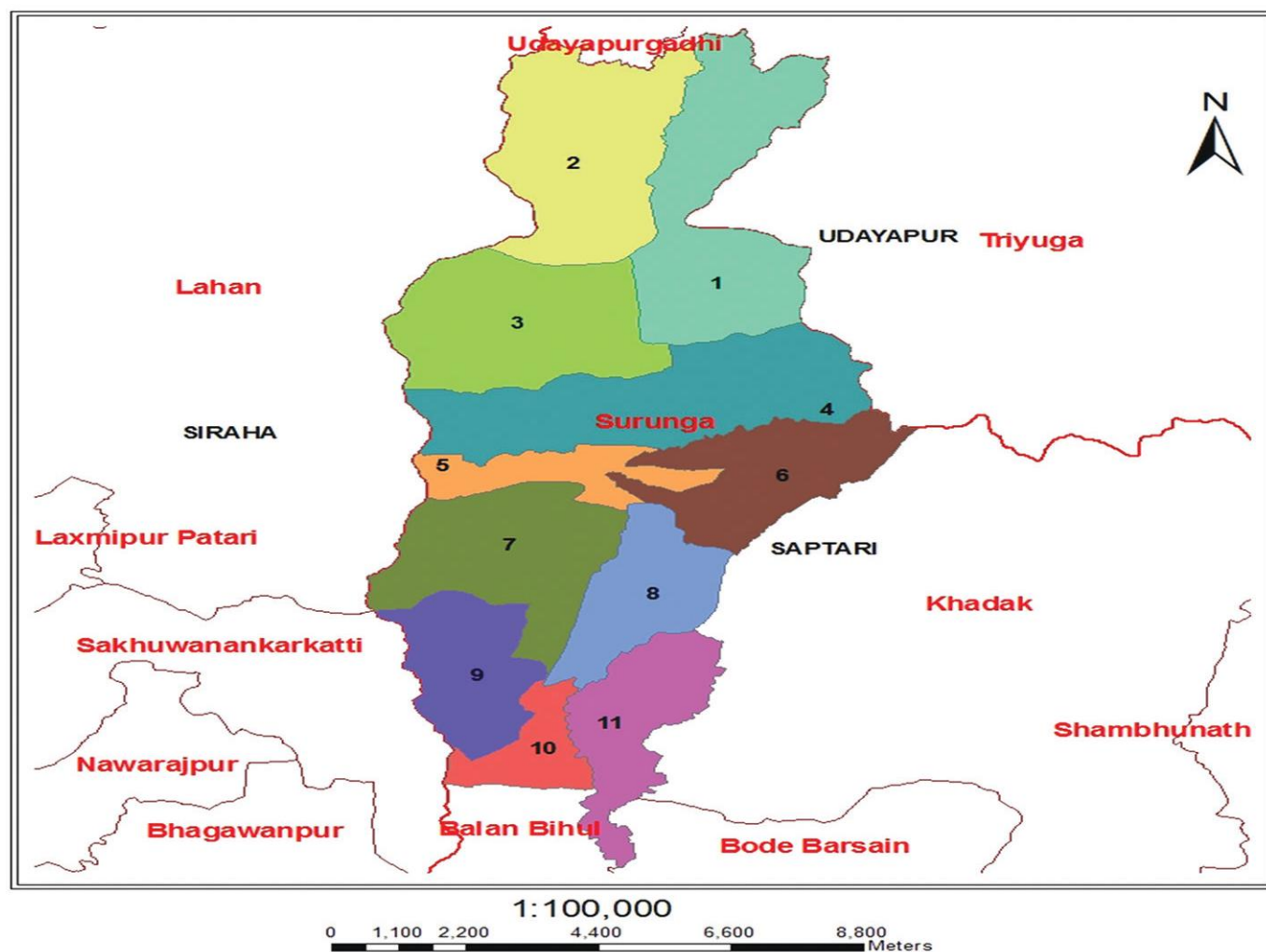
Ward Wise Cancer Incidence and Mortality: Shambhunath Municipality



Ward Wise Cancer Incidence and Mortality: Shambhunath Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	0	1	0	0	0
2	2	1	1	2	0	0	0
3	3	0	0	0	0	0	0
4	4	1	0	1	0	0	0
5	5	0	1	1	0	1	1
6	6	2	1	3	2	0	2
7	7	1	0	1	0	0	0
8	8	1	2	3	1	0	1
9	9	0	0	0	0	0	0
10	10	3	1	4	1	1	2
11	11	1	1	2	0	0	0
12	12	1	0	1	0	0	0
Total		12	7	19	4	2	6

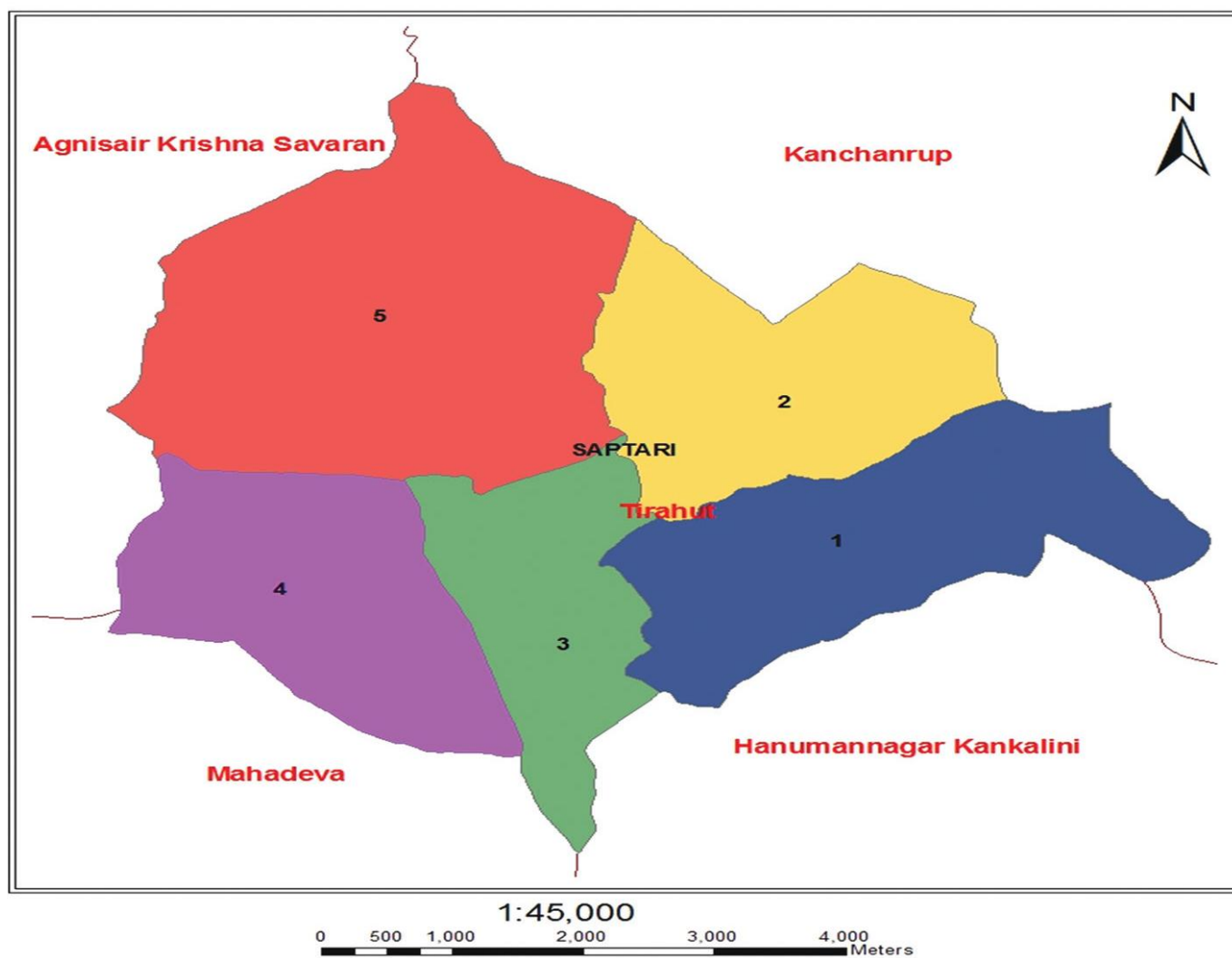
Ward Wise Cancer Incidence and Mortality: Surunga Municipality



Ward Wise Cancer Incidence and Mortality: Surunga Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	0	1	0	0	0
2	2	1	0	1	1	0	1
3	3	0	1	1	0	0	0
4	4	1	0	1	0	0	0
5	5	0	2	2	0	0	0
6	6	1	0	1	0	0	0
7	7	2	1	3	0	1	1
8	8	0	1	1	0	0	0
9	9	1	2	3	1	1	2
10	10	1	0	1	0	0	0
11	11	1	0	1	0	0	0
Total		9	7	16	2	2	4

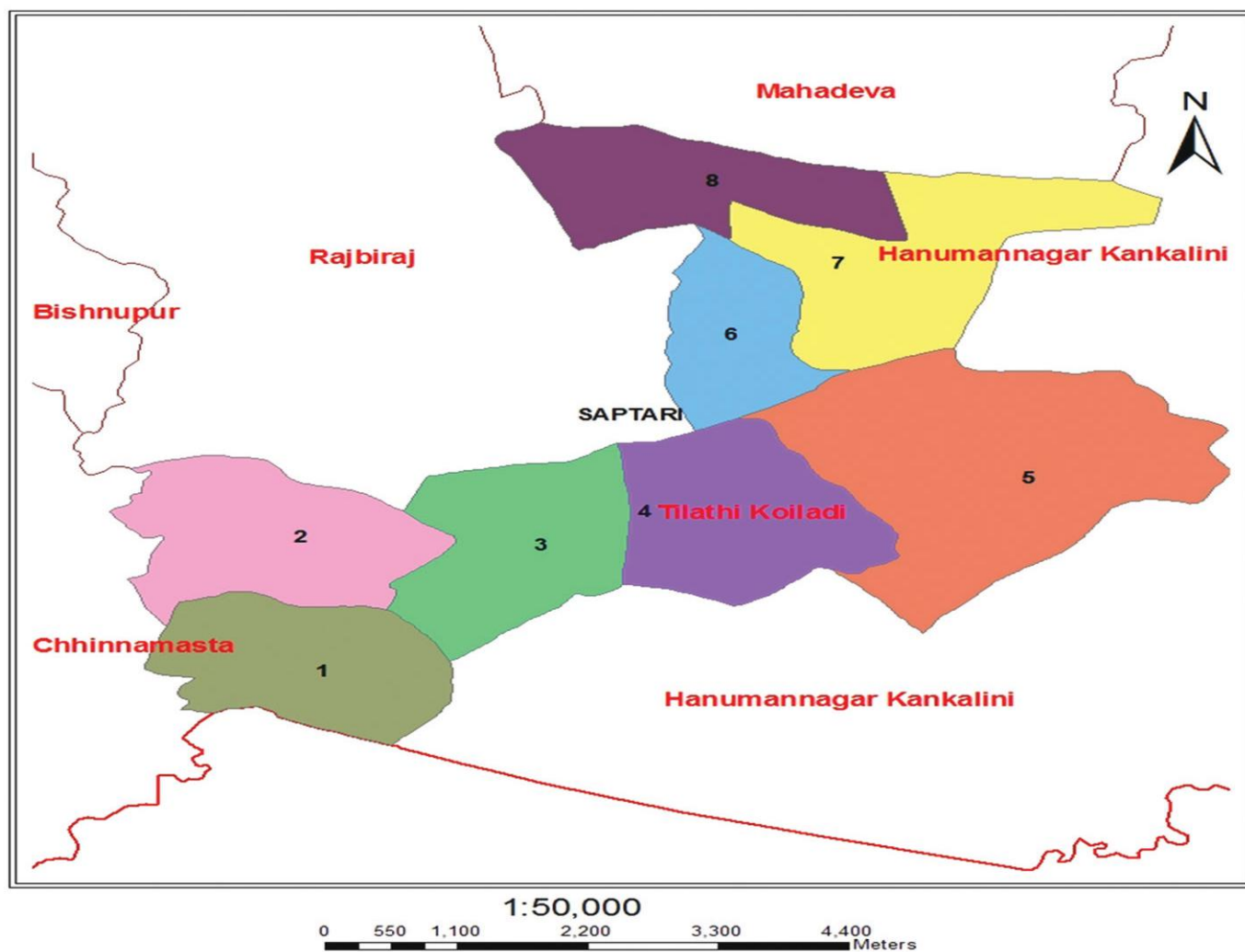
Ward Wise Cancer Incidence and Mortality: Tirahut Rural Municipality



Ward Wise Cancer Incidence and Mortality: Tirahut Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	4	4	0	0	0
2	2	2	0	2	2	0	2
3	3	0	0	0	0	0	0
4	4	0	3	3	0	2	2
5	5	3	0	3	2	0	2
6	99	0	1	1	0	0	0
Total		5	8	13	4	2	6

Ward Wise Cancer Incidence and Mortality: Tilathi Koiladi Rural Municipality



Ward Wise Cancer Incidence and Mortality: Tilathi Koiladi Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	4	4	0	0	0
2	2	0	1	1	0	1	1
3	3	0	1	1	0	0	0
4	4	1	0	1	1	0	1
5	5	1	2	3	1	1	2
6	6	0	1	1	0	0	0
7	7	3	0	3	1	0	1
8	8	2	0	2	0	0	0
9	Unknown	1	0	1	0	0	0
Total		8	9	17	3	2	5

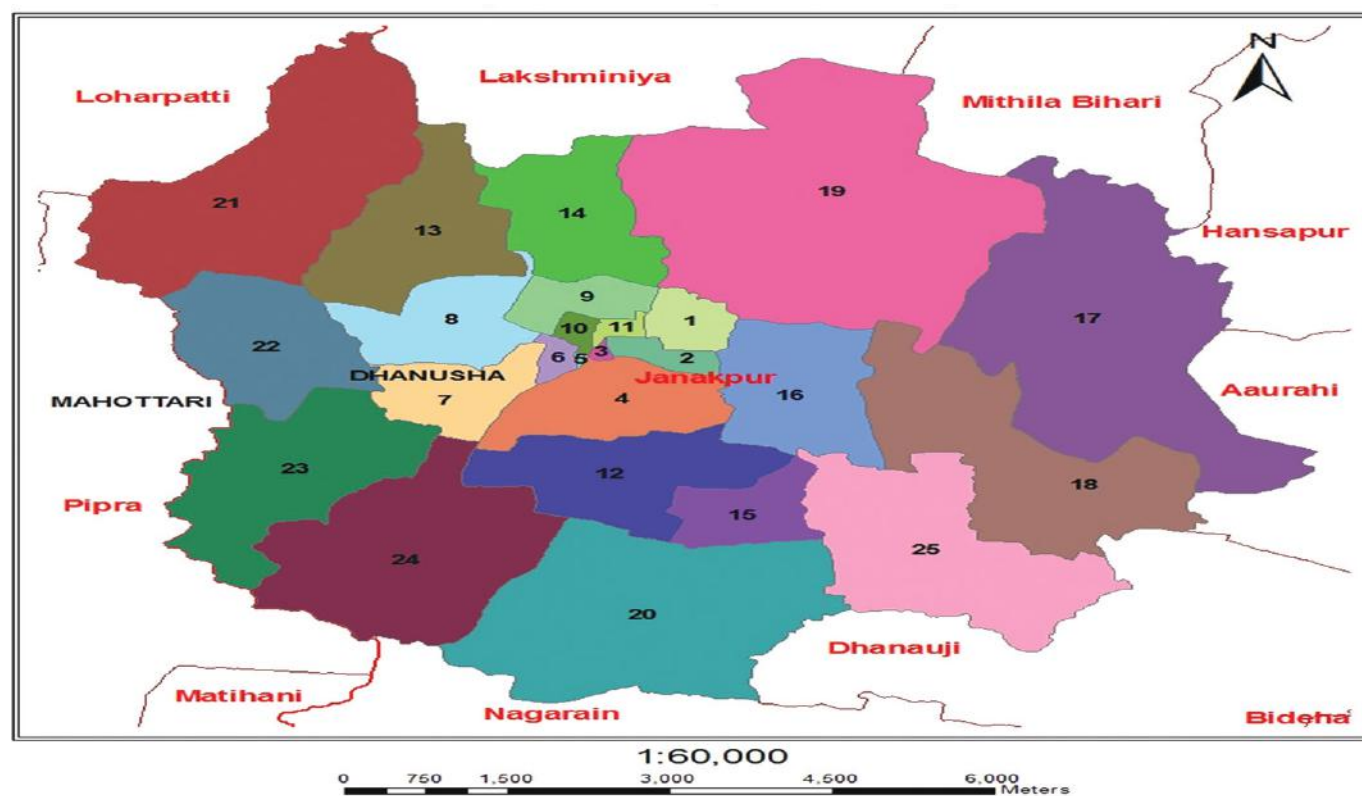
Urban/Rural Municipality Wise Cancer Incidence and Mortality: Dhanusha District



Urban/Rural Municipality Wise Cancer Incidence and Mortality: Dhanusha District

S.N	Municipality /Village Council	Incidence Cases			Mortality Cases		
		Male	Female	Total	Male	Female	Total
1	Janakpur Sub-Metropolitan City	23	31	54	1	4	5
2	Chhreshwornath Municipality	5	3	8	3	1	4
3	GaneshmanCharnath Municipality	2	1	3	0	0	0
4	Dhanushadham Municipality	6	13	19	2	2	4
5	Nagarain Municipality	5	5	10	2	3	5
6	Bideha Municipality	3	4	7	1	1	2
7	Mithila Municipality	6	9	15	0	2	2
8	Hansapur Municipality	2	7	9	2	1	3
9	Kamala Municipality	5	1	6	2	0	2
10	Mukhiyapatti Musaharmiya Rural Municipality	3	3	6	0	2	2
11	Laxminiya Rural Municipality	2	4	6	0	0	0
12	Dhanauji Rural Municipality	6	3	9	0	1	1
13	Aaurhi Rural Municipality	5	2	7	2	0	2
14	Janknandani Rural Municipality	4	0	4	0	0	0
15	Bateswor Rural Municipality	1	7	8	0	3	3
16	Shahidnagar Municipality	6	6	12	1	1	2
17	Sabaila Municipality	9	11	20	0	1	1
18	Mithila Bihari Municipality	8	5	13	4	4	8
19	Unknown	19	28	47	0	0	0
Total		120	143	263	20	26	46

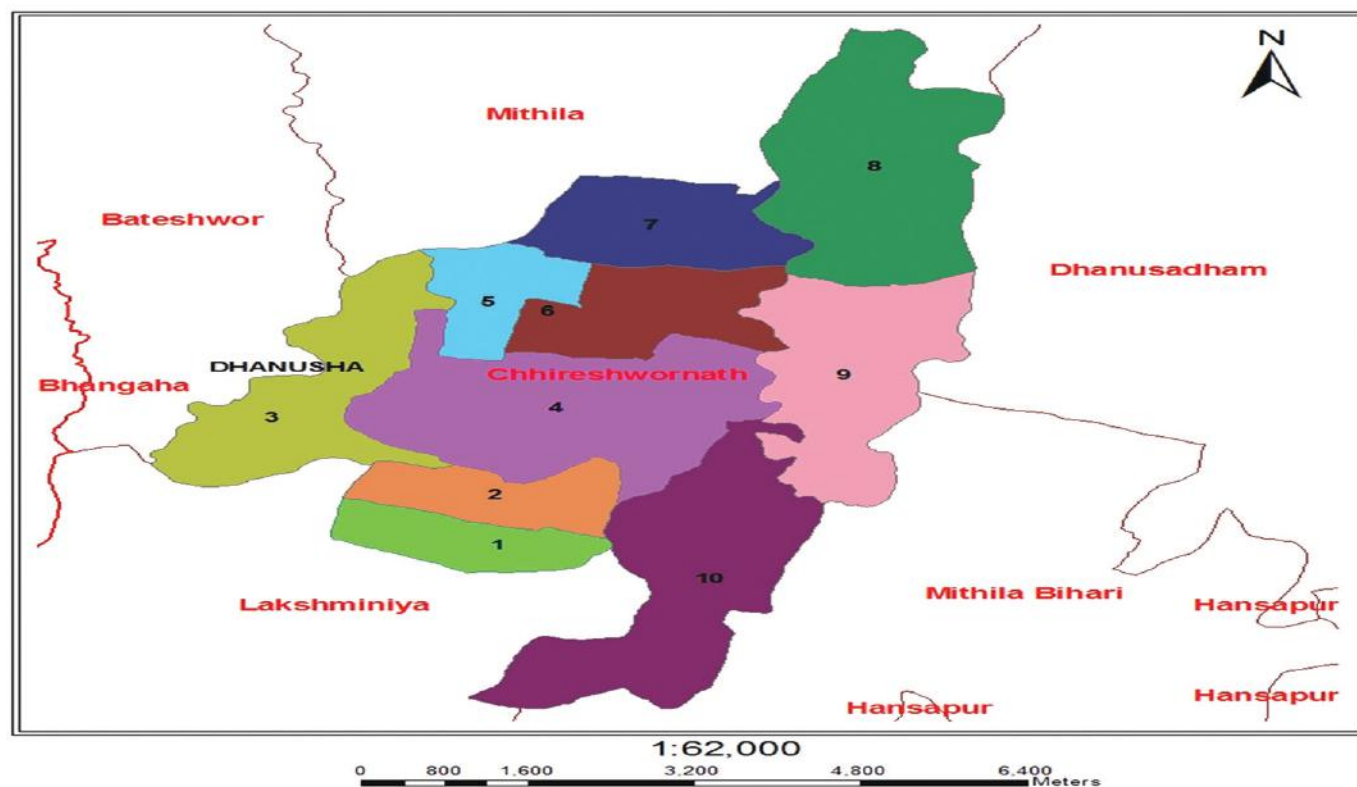
Ward Wise Cancer Incidence and Mortality: Janakpur Sub-Metropolitan City



Ward Wise Cancer Incidence and Mortality: Janakpur Sub-Metropolitan City

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	0	1	0	0	0
2	2	2	3	5	0	0	0
3	3	1	0	1	0	0	0
4	4	1	1	2	0	0	0
5	5	1	3	4	0	0	0
6	6	1	1	2	0	0	0
7	7	0	1	1	0	0	0
8	8	1	2	3	0	0	0
9	9	0	3	3	0	0	0
10	10	0	1	1	0	0	0
11	11	0	1	1	0	0	0
12	12	0	1	1	0	0	0
13	13	0	2	2	0	1	1
14	14	1	2	3	0	0	0
15	15	1	0	1	0	0	0
16	16	1	1	2	0	0	0
17	17	0	0	0	0	0	0
18	18	1	1	2	0	0	0
19	19	0	1	1	0	0	0
20	20	0	0	0	0	0	0
21	21	1	0	1	0	0	0
22	22	1	0	1	0	0	0
23	23	0	0	0	1	0	1
24	24	0	1	1	0	1	1
25	25	1	2	3	0	0	0
26	99	8	4	12	0	2	2
Total		23	31	54	1	4	5

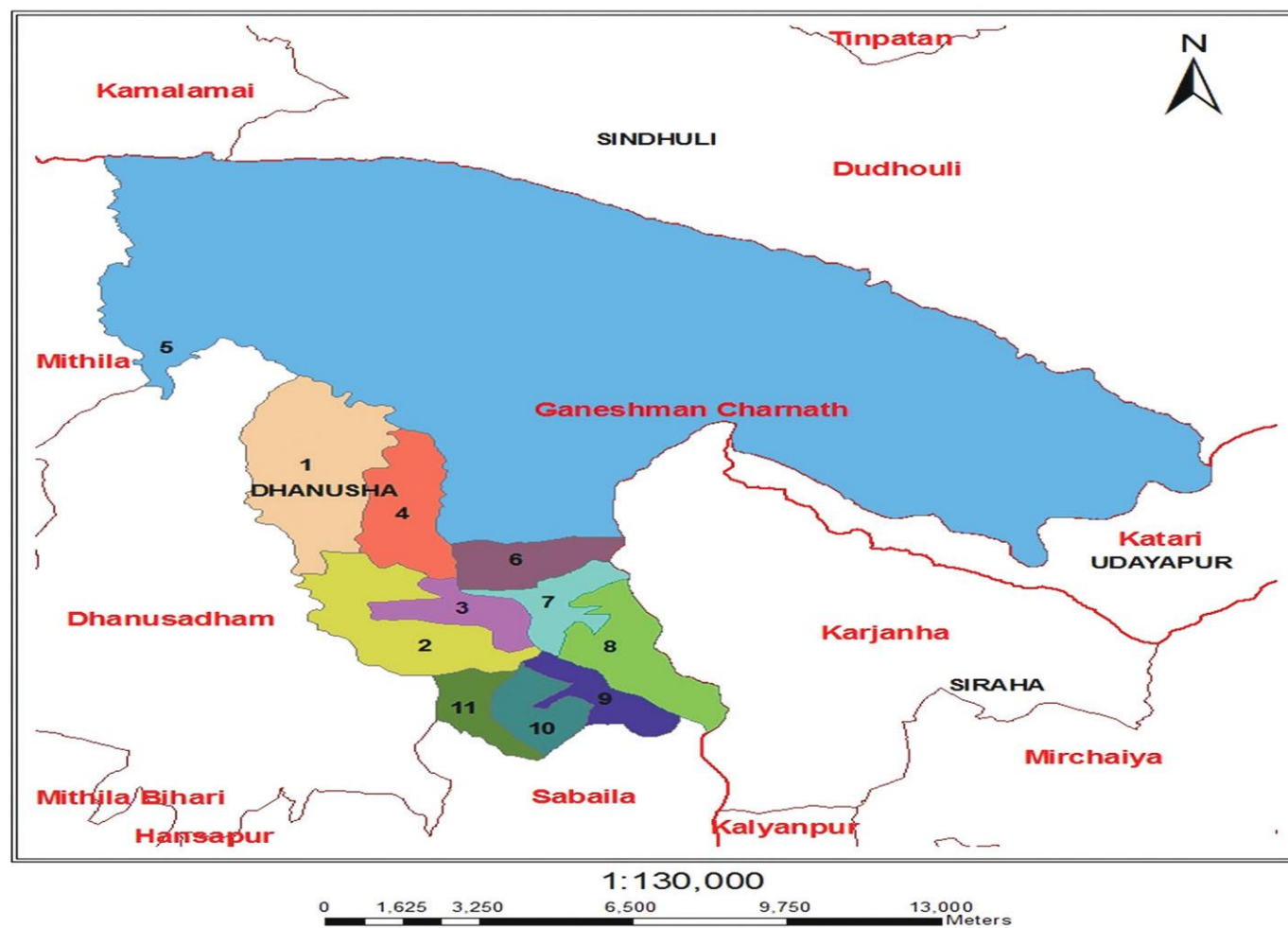
Ward Wise Cancer Incidence and Mortality: Chhreshwornath Municipality



Ward Wise Cancer Incidence and Mortality: Chhreshwornath Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	0	1	0	0	0
2	2	0	2	2	1	1	2
3	3	1	0	1	0	0	0
4	4	0	0	0	0	0	0
5	5	0	0	0	0	0	0
6	6	1	1	2	0	0	0
7	7	0	0	0	0	0	0
8	8	1	0	1	1	0	1
9	9	0	0	0	0	0	0
10	10	1	0	1	1	0	1
Total		5	3	8	3	1	4

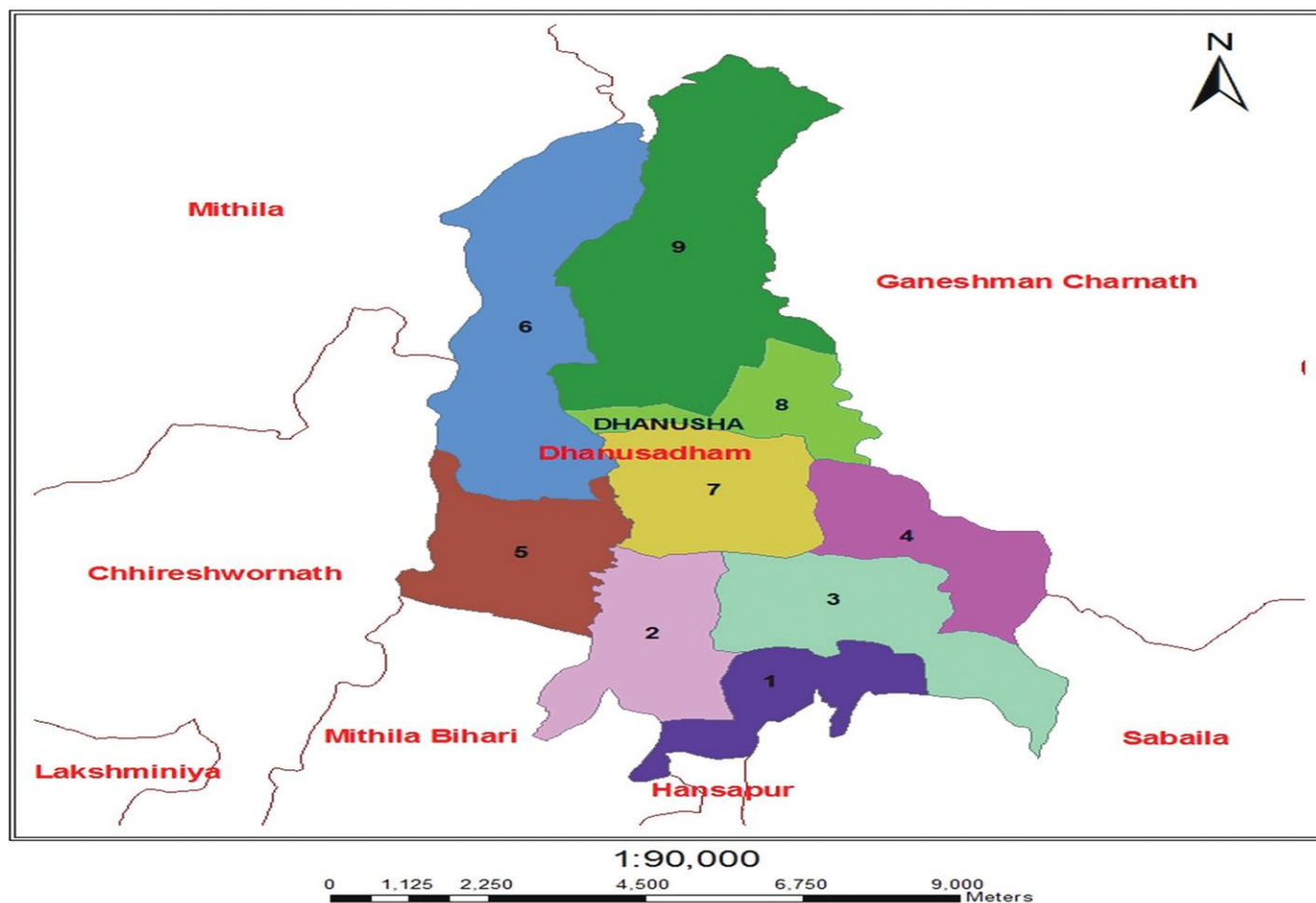
Ward Wise Cancer Incidence and Mortality: Ganeshman Charnath Municipality



Ward Wise Cancer Incidence and Mortality: Ganeshman Charnath Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	0	0	0	0	0	0
3	3	0	0	0	0	0	0
4	4	0	0	0	0	0	0
5	5	0	0	0	0	0	0
6	6	0	0	0	0	0	0
7	7	0	0	0	0	0	0
8	8	0	0	0	0	0	0
9	9	1	0	1	0	0	0
10	10	1	0	1	0	0	0
11	11	0	1	1	0	0	0
Total		2	1	3	0	0	0

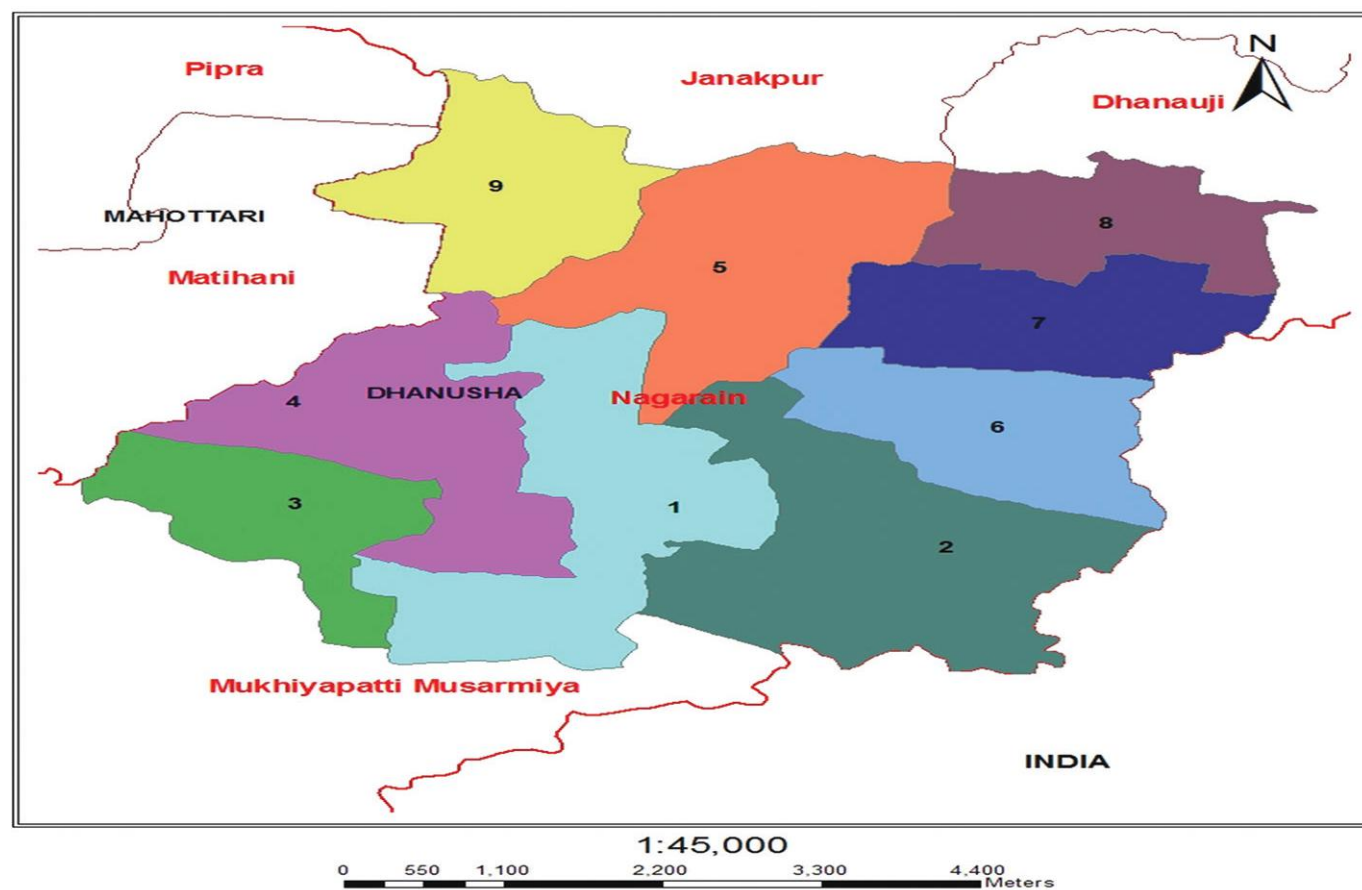
Ward Wise Cancer Incidence and Mortality: Dhanushadham Municipality



Ward Wise Cancer Incidence and Mortality: Dhanushadham Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	1	2	0	0	0
2	2	0	0	0	0	0	0
3	3	2	3	5	0	0	0
4	4	0	1	1	0	1	1
5	5	1	0	1	0	0	0
6	6	0	2	2	0	0	0
7	7	2	1	3	2	0	2
8	8	0	2	2	0	0	0
9	9	0	2	2	0	1	1
10	99	0	1	1	0	0	0
Total		6	12	19	2	2	4

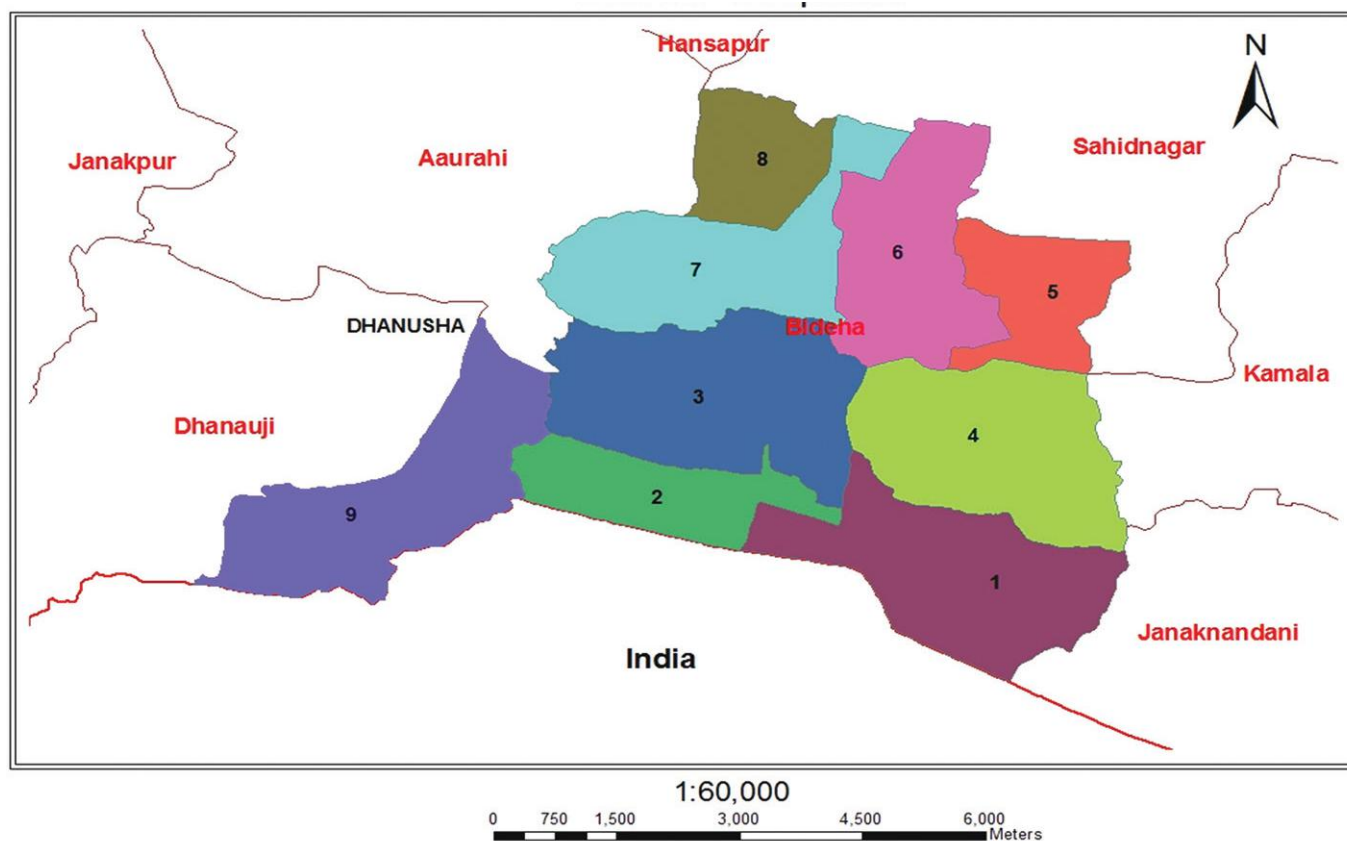
Ward Wise Cancer Incidence and Mortality: Nagarain Municipality



Ward Wise Cancer Incidence and Mortality: Nagarain Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	0	1	0	0	0
2	2	1	0	1	1	0	1
3	3	0	0	0	0	0	0
4	4	0	2	2	0	0	0
5	5	0	2	2	0	2	2
6	6	1	0	1	0	0	0
7	7	1	0	1	1	0	1
8	8	1	0	1	0	0	0
9	9	0	1	1	0	1	1
Total		5	5	10	2	3	5

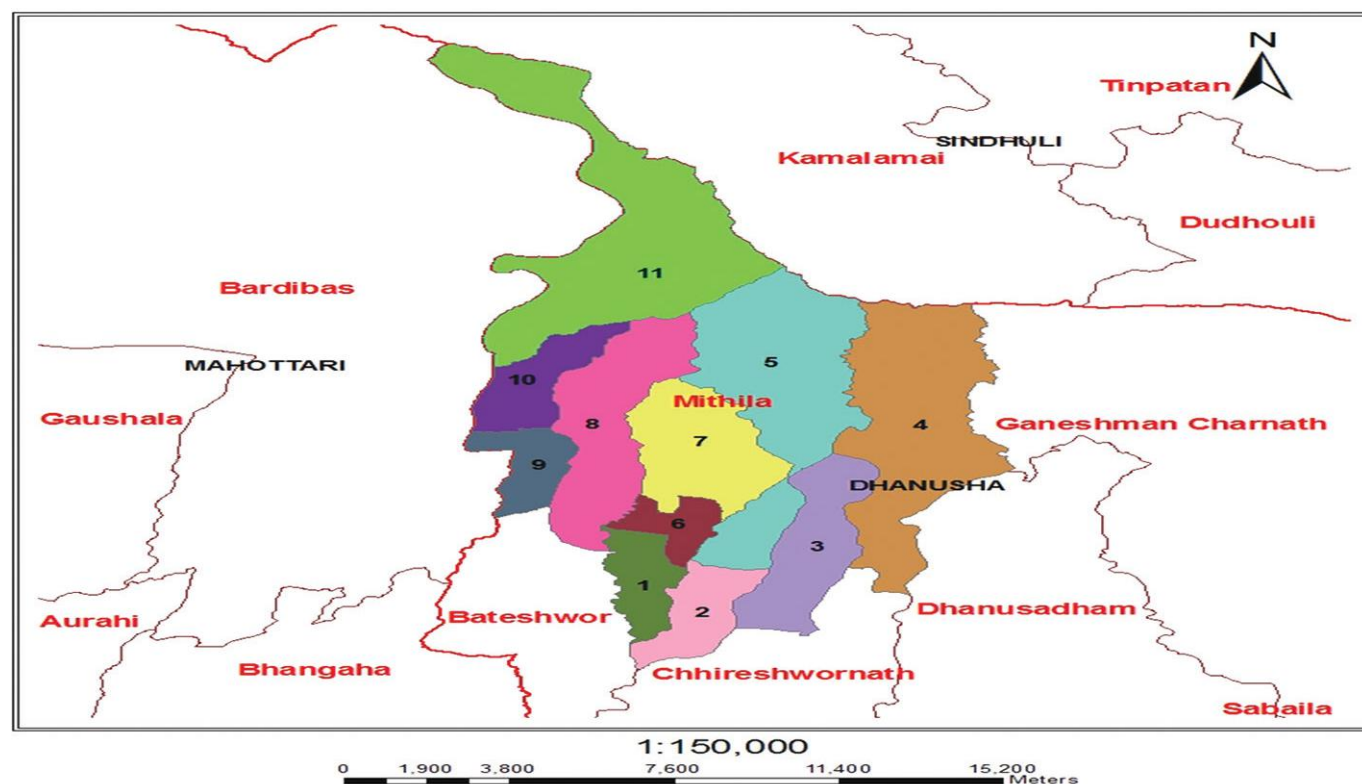
Ward Wise Cancer Incidence and Mortality: Bideha Municipality



Ward Wise Cancer Incidence and Mortality: Bideha Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	1	1
2	2	0	1	1	0	0	0
3	3	1	3	4	1	0	1
4	4	0	0	0	0	0	0
5	5	2	0	2	0	0	0
6	6	0	0	0	0	0	0
7	7	0	0	0	0	0	0
8	8	0	0	0	0	0	0
9	9	0	0	0	0	0	0
Total		3	4	7	1	1	2

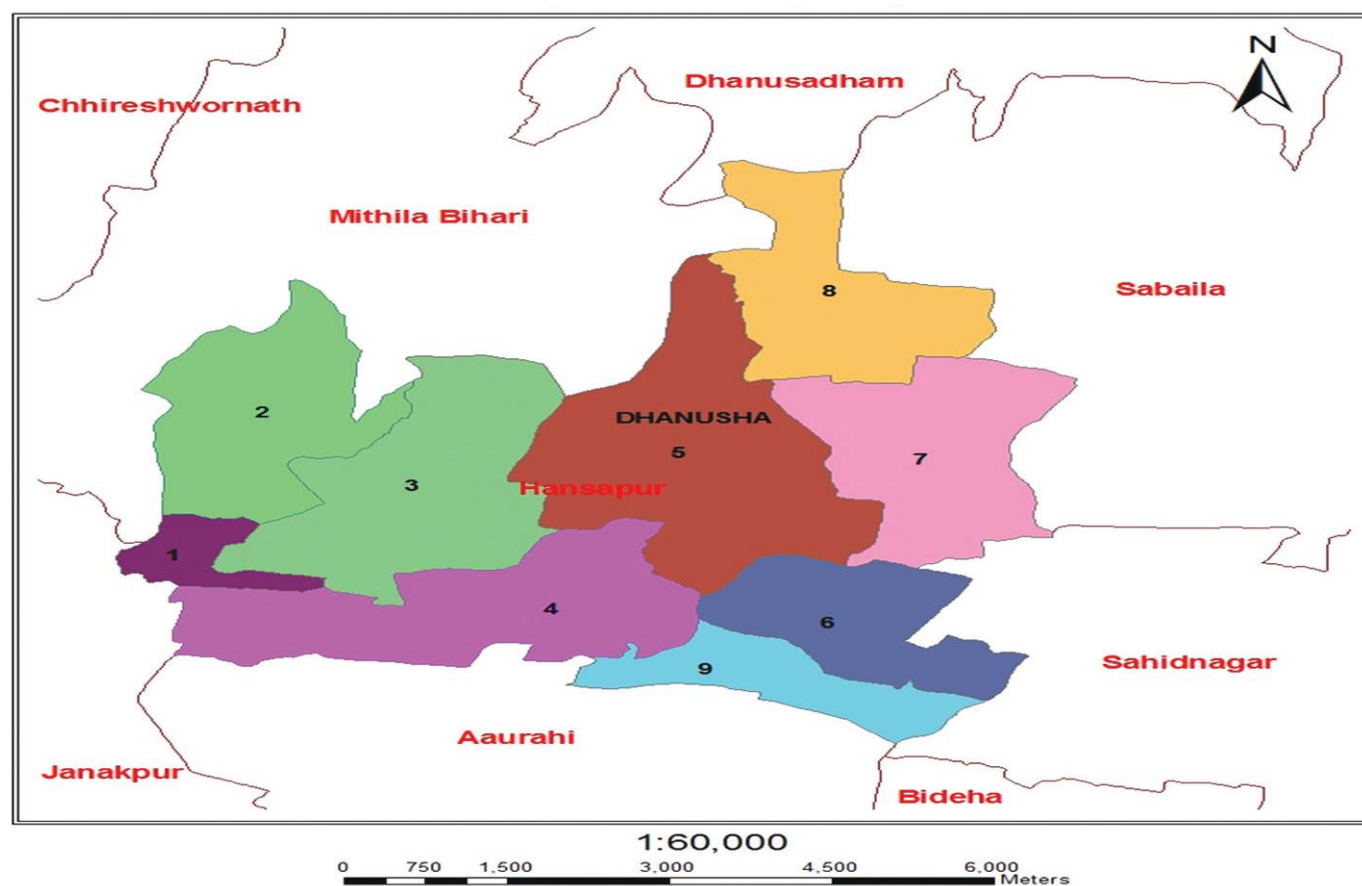
Ward Wise Cancer Incidence and Mortality: Mithila Municipality



Ward Wise Cancer Incidence and Mortality: Mithila Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	1	1	0	0	0
2	2	1	0	1	0	0	0
3	3	3	0	3	0	0	0
4	4	0	0	0	0	0	0
5	5	0	0	0	0	0	0
6	6	0	2	2	0	0	0
7	7	1	1	2	0	1	1
8	8	0	1	1	0	0	0
9	9	0	0	0	0	0	0
10	10	1	2	3	0	1	1
11	11	0	2	2	0	0	0
Total		6	9	15	0	2	2

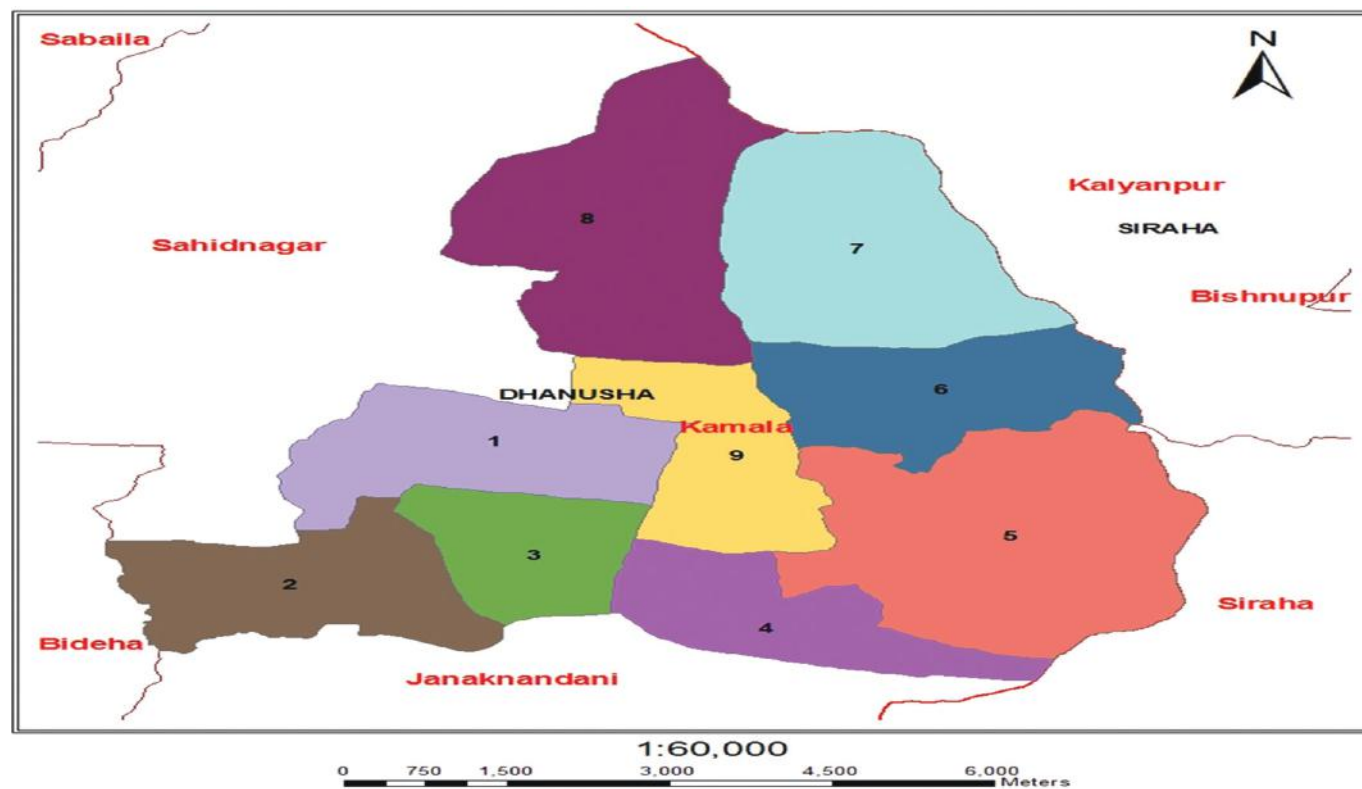
Ward Wise Cancer Incidence and Mortality: Hansapur Municipality



Ward Wise Cancer Incidence and Mortality: Hansapur Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	1	0	1
2	2	0	0	0	0	0	0
3	3	1	1	2	1	0	1
4	4	0	0	0	0	0	0
5	5	0	1	1	0	1	1
6	6	0	1	1	0	0	0
7	7	0	2	2	0	0	0
8	8	1	1	2	0	0	0
9	9	0	0	0	0	0	0
10	99	0	1	1	0	0	0
Total		2	7	9	2	1	3

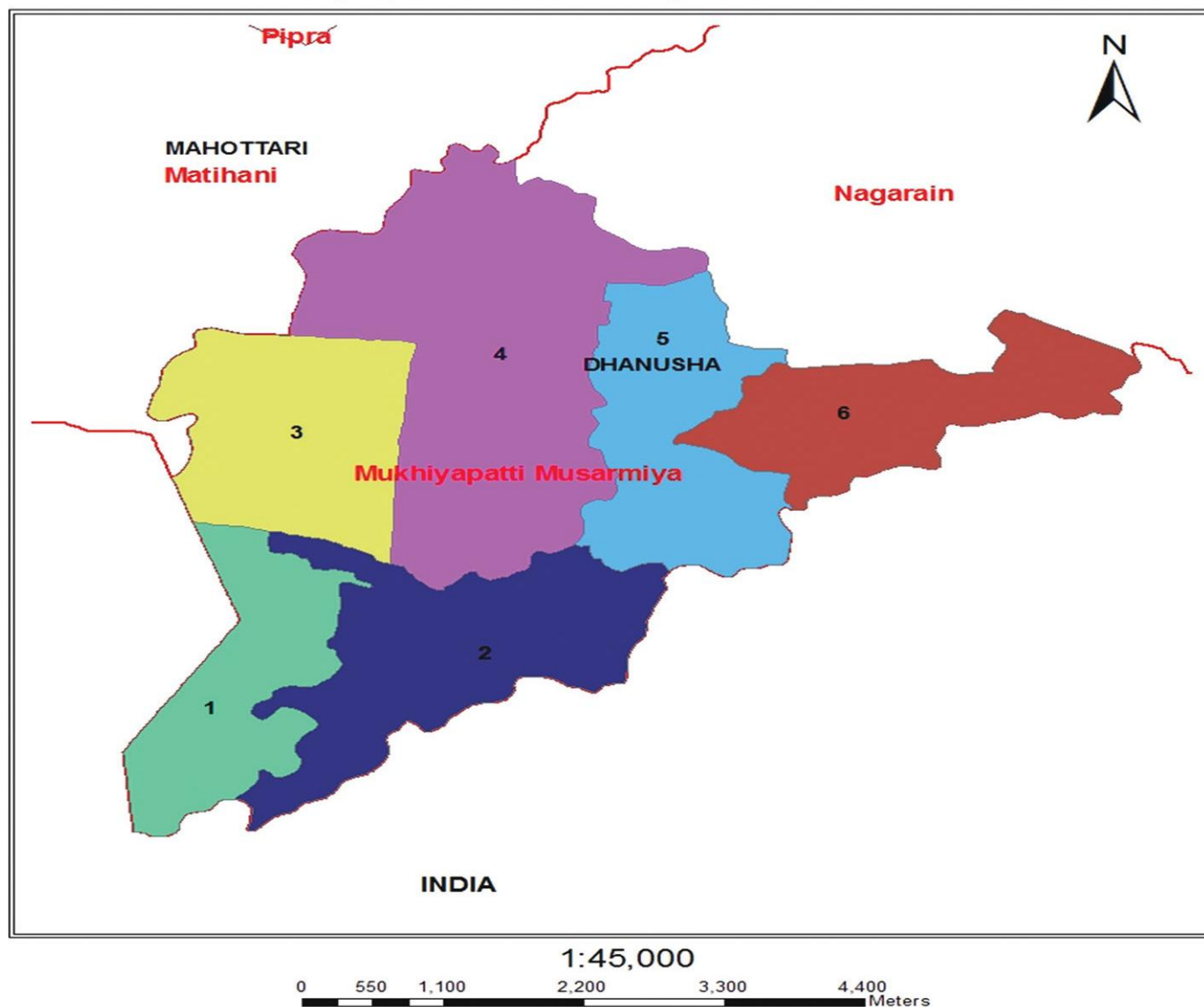
Ward Wise Cancer Incidence and Mortality: Kamala Municipality



Ward Wise Cancer Incidence and Mortality: Kamala Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	2	1	3	1	0	1
3	3	1	0	1	1	0	1
4	4	0	0	0	0	0	0
5	5	0	0	0	0	0	0
6	6	0	0	0	0	0	0
7	7	1	0	1	0	0	0
8	8	1	0	1	0	0	0
9	9	0	0	0	0	0	0
Total		5	1	6	2	0	2

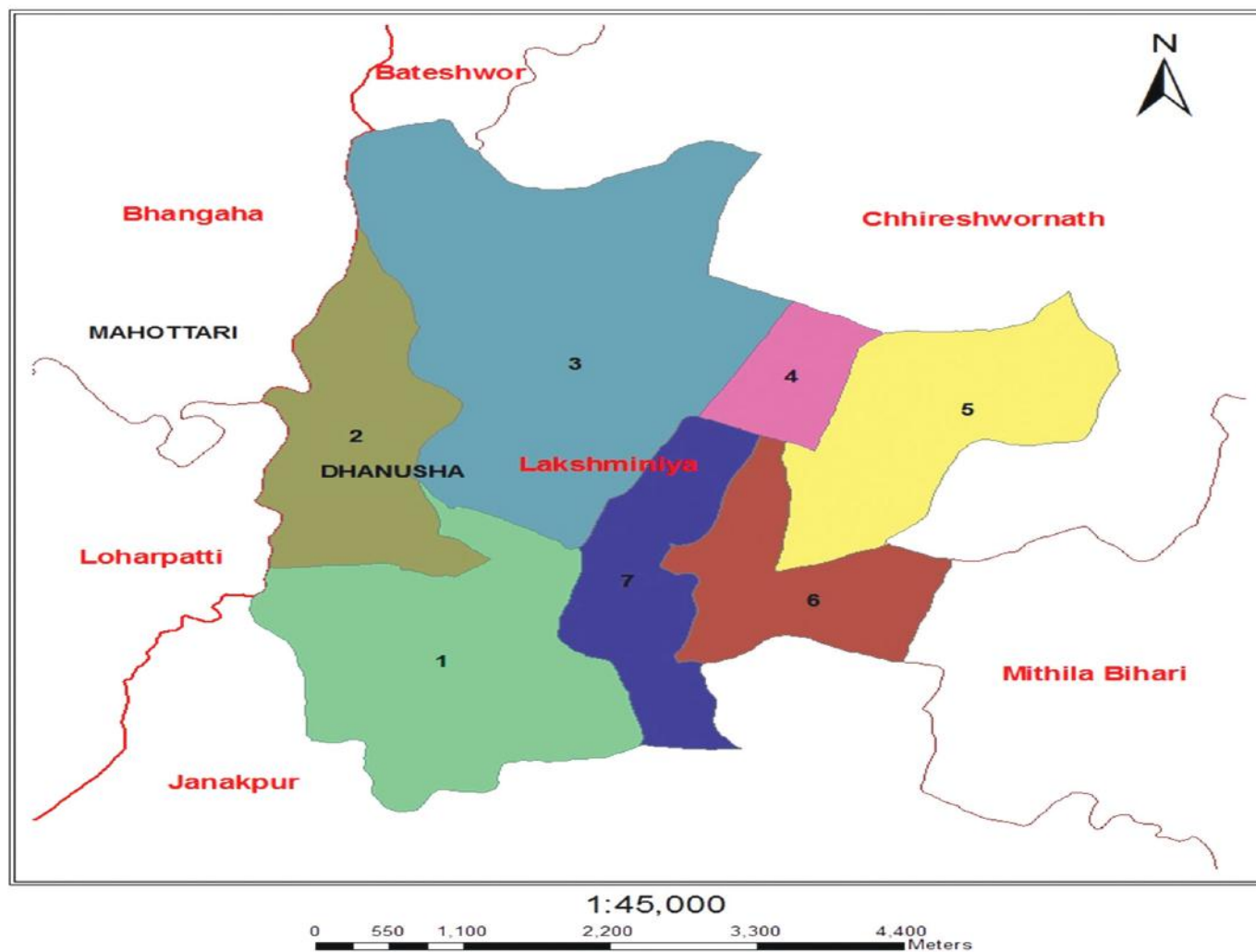
Ward Wise Cancer Incidence and Mortality: Mukhiyapatti Musaharmiya Rural Municipality



Ward Wise Cancer Incidence and Mortality: Mukhiyapatti Musaharmiya Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	1	1	0	0	0
2	2	2	1	3	0	1	1
3	3	0	1	1	0	1	1
4	4	0	0	0	0	0	0
5	5	0	0	0	0	0	0
6	6	1	0	1	0	0	0
Total		3	3	6	0	2	2

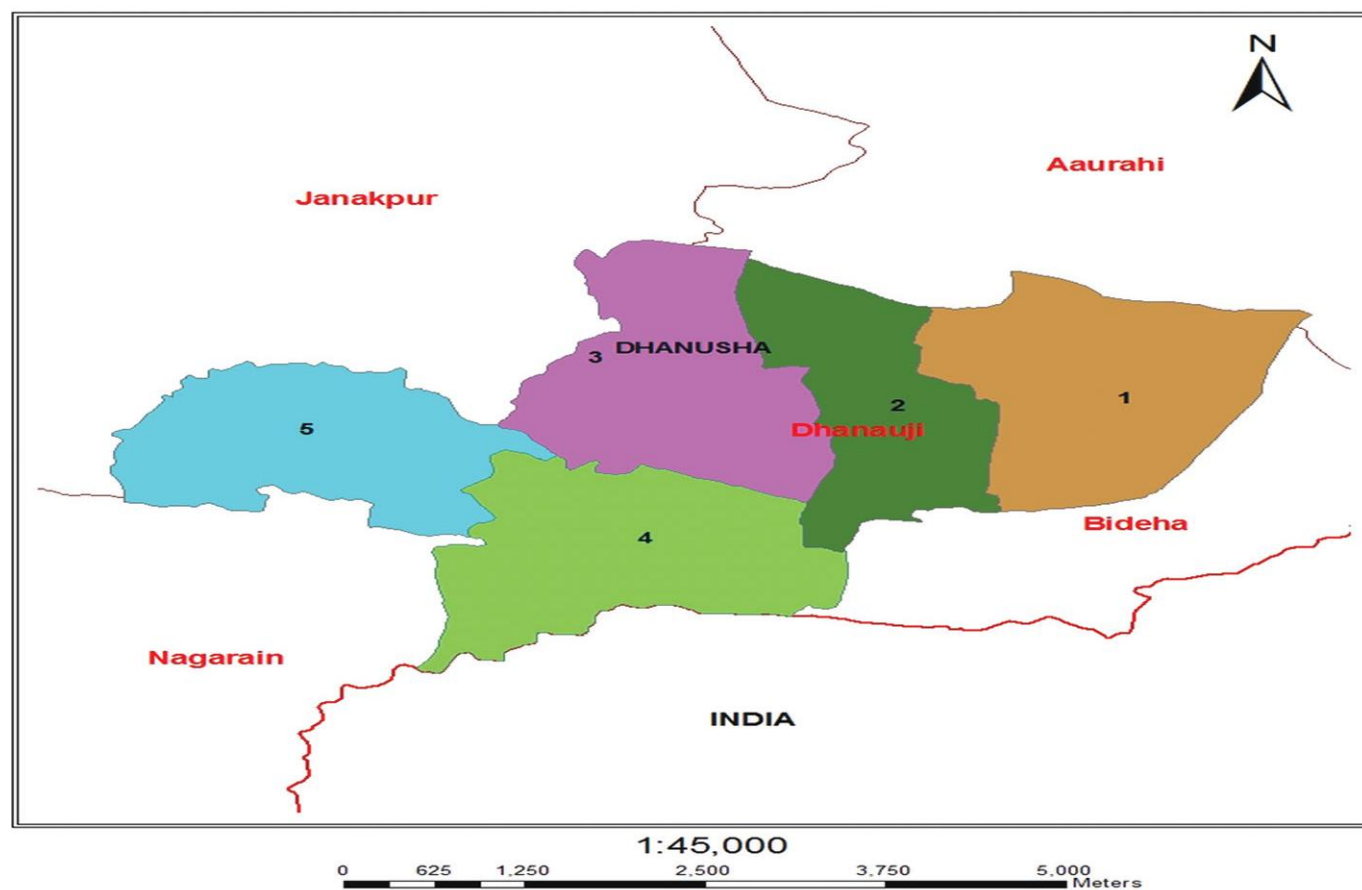
Ward Wise Cancer Incidence and Mortality: Laxminiya Rural Municipality



Ward Wise Cancer Incidence and Mortality: Laxminiya Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	1	2	3	0	0	0
3	3	0	2	2	0	0	0
4	4	0	0	0	0	0	0
5	5	1	0	1	0	0	0
6	6	0	0	0	0	0	0
7	7	0	0	0	0	0	0
Total		2	4	6	0	0	0

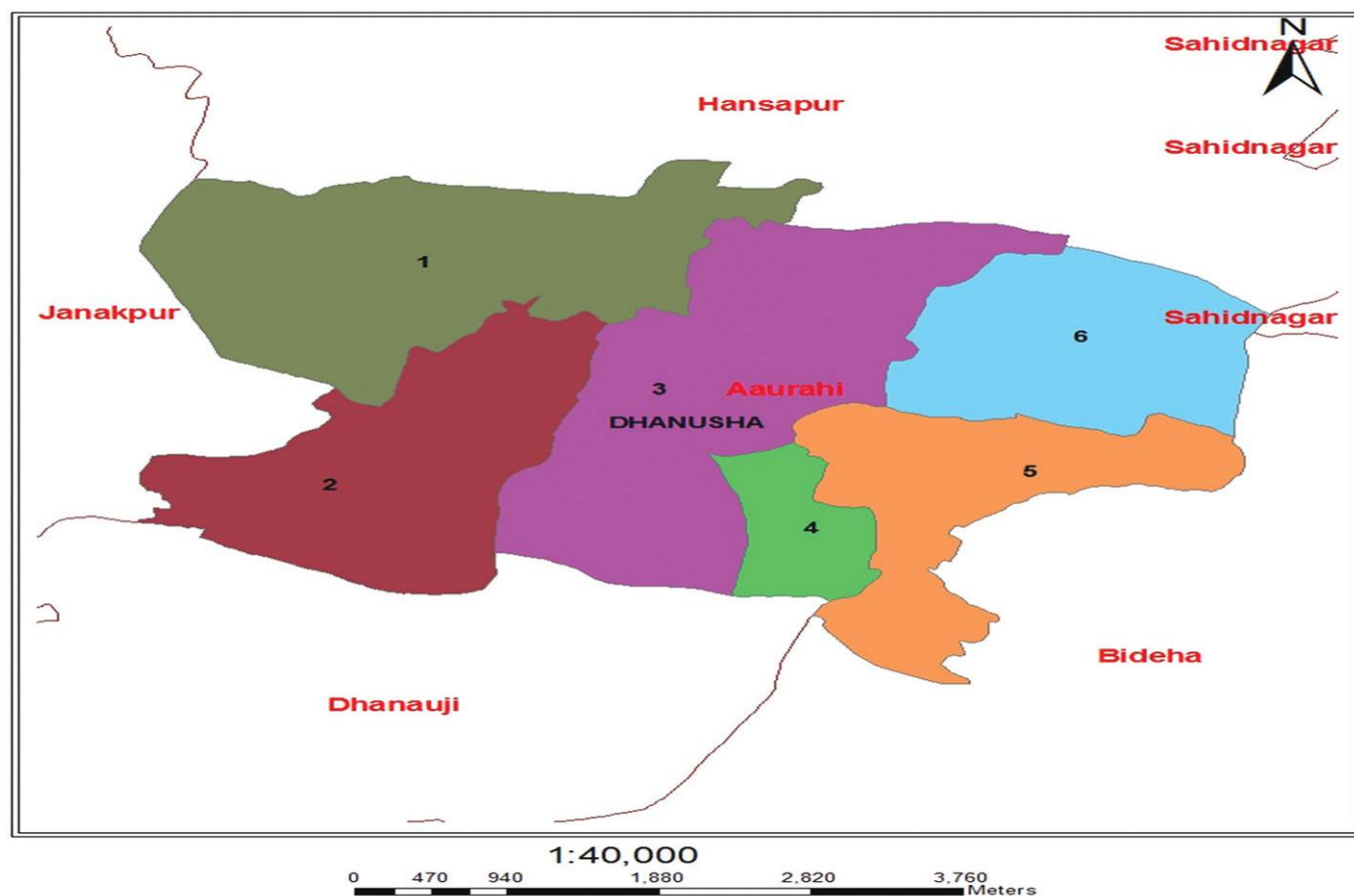
Ward Wise Cancer Incidence and Mortality: Dhanauji Rural Municipality



Ward Wise Cancer Incidence and Mortality: Dhanauji Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	1	0	1	0	0	0
3	3	2	3	5	0	1	1
4	4	1	0	1	0	0	0
5	5	1	0	1	0	0	0
6	99	1	0	1	0	0	0
Total		6	3	9	0	1	1

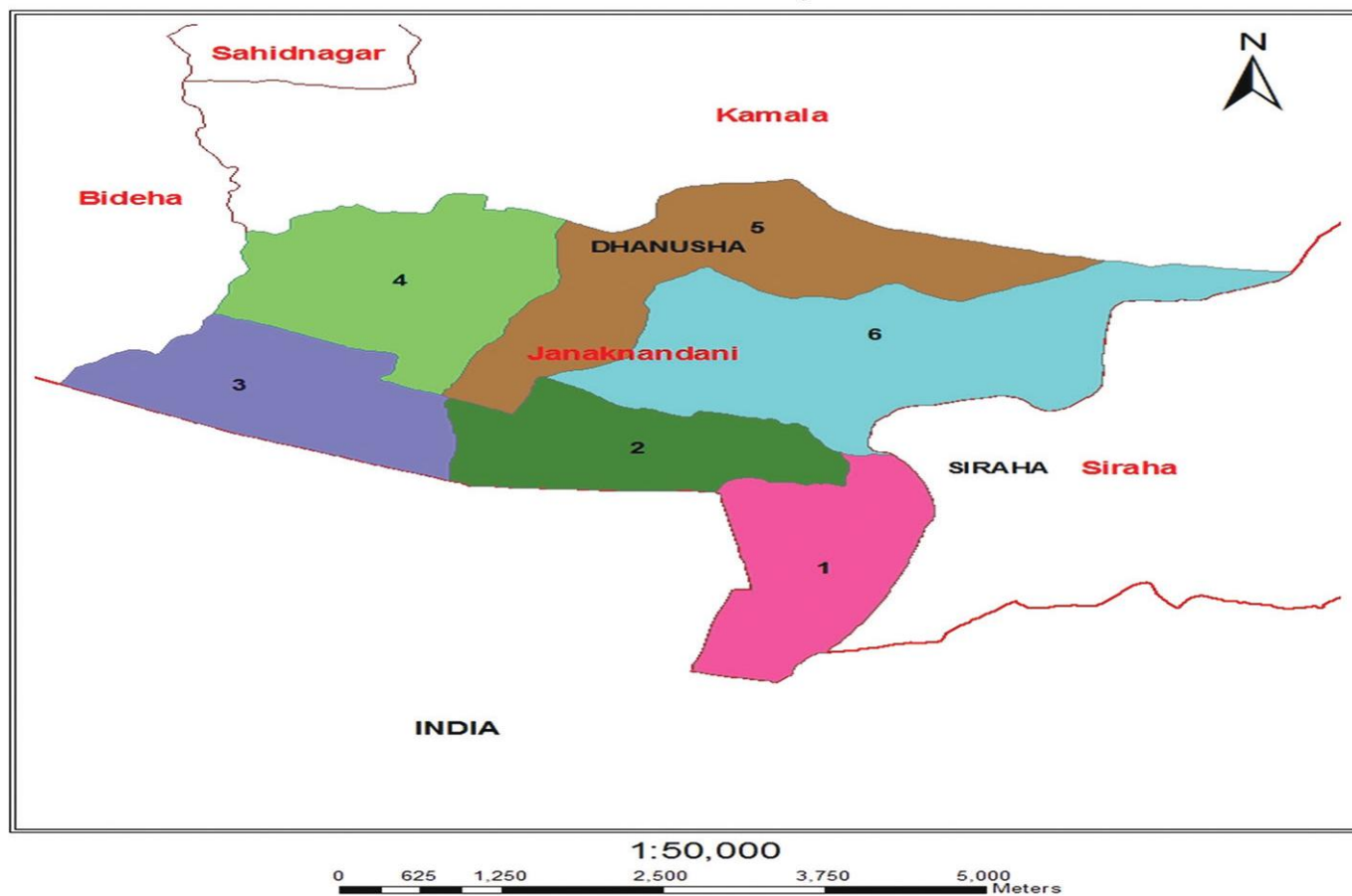
Ward Wise Cancer Incidence and Mortality: Aaurhi Rural Municipality



Ward Wise Cancer Incidence and Mortality: Aaurhi Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	0	1	1	0	1
2	2	2	0	2	1	0	1
3	3	2	0	2	0	0	0
4	4	0	0	0	0	0	0
5	5	0	1	1	0	0	0
6	6	0	1	1	0	0	0
Total		5	2	7	2	0	2

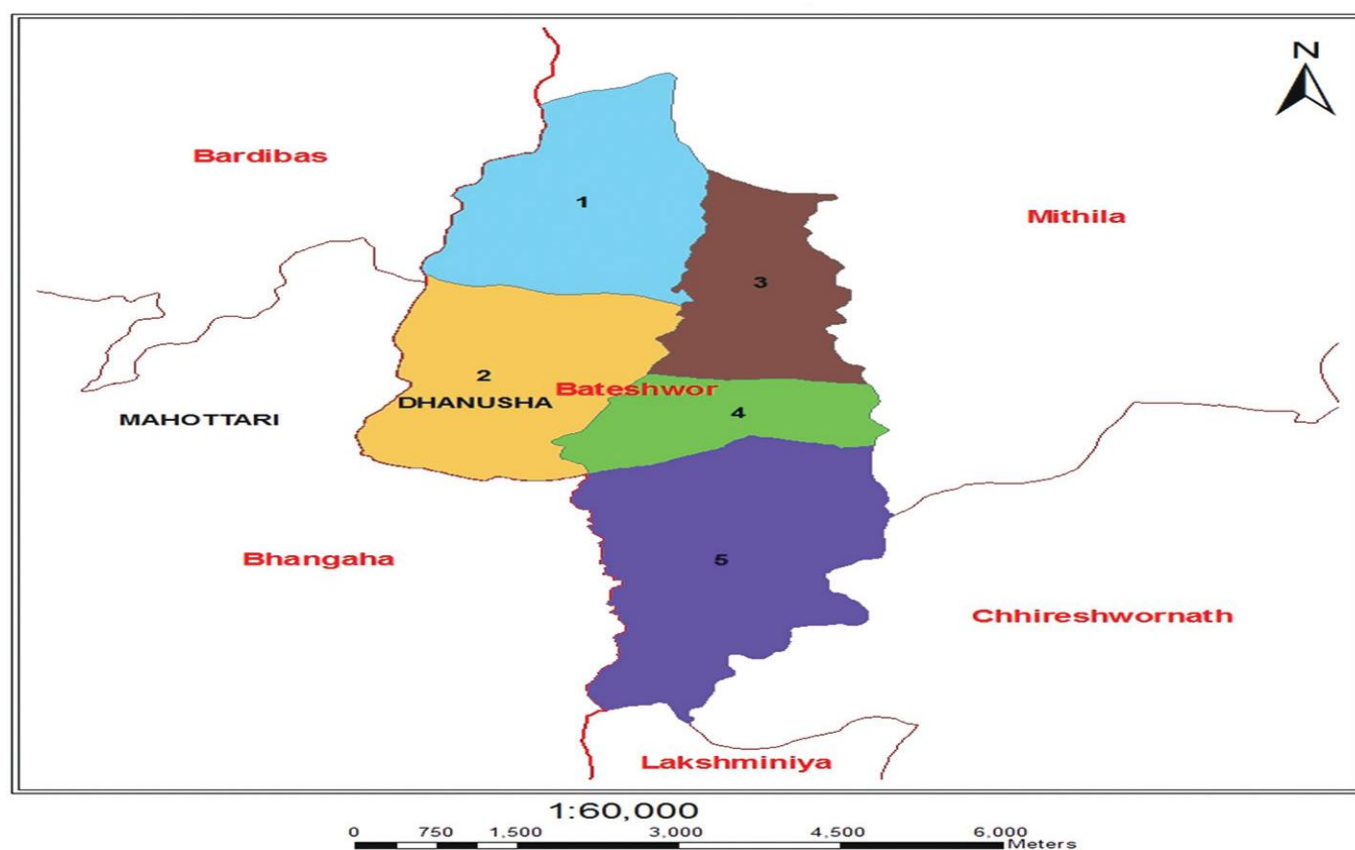
Ward Wise Cancer Incidence and Mortality: Janknandani Rural Municipality



Ward Wise Cancer Incidence and Mortality: Janknandani Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Male
1	1	1	0	1	0	0	0
2	2	1	0	1	0	0	0
3	3	1	0	1	0	0	0
4	4	0	0	0	0	0	0
5	5	1	0	1	0	0	0
6	6	0	0	0	0	0	0
Total		4	0	4	0	0	0

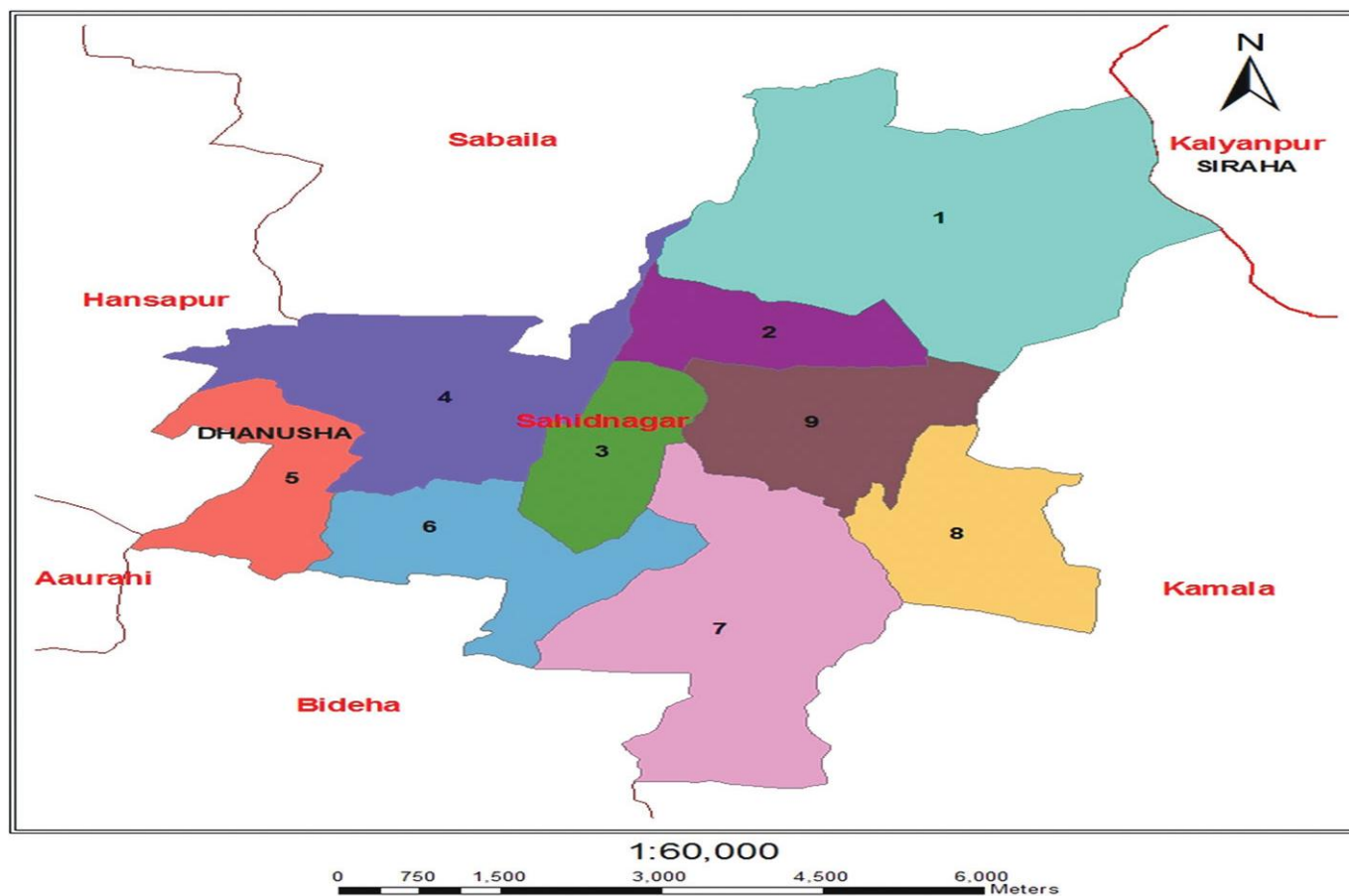
Ward Wise Cancer Incidence and Mortality: Bateshor Rural Municipality



Ward Wise Cancer Incidence and Mortality: Bateshor Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	1	1
2	2	0	0	0	0	1	1
3	3	0	2	2	0	0	0
4	4	0	4	4	0	1	1
5	5	1	1	2	0	0	0
Total		1	7	8	0	3	3

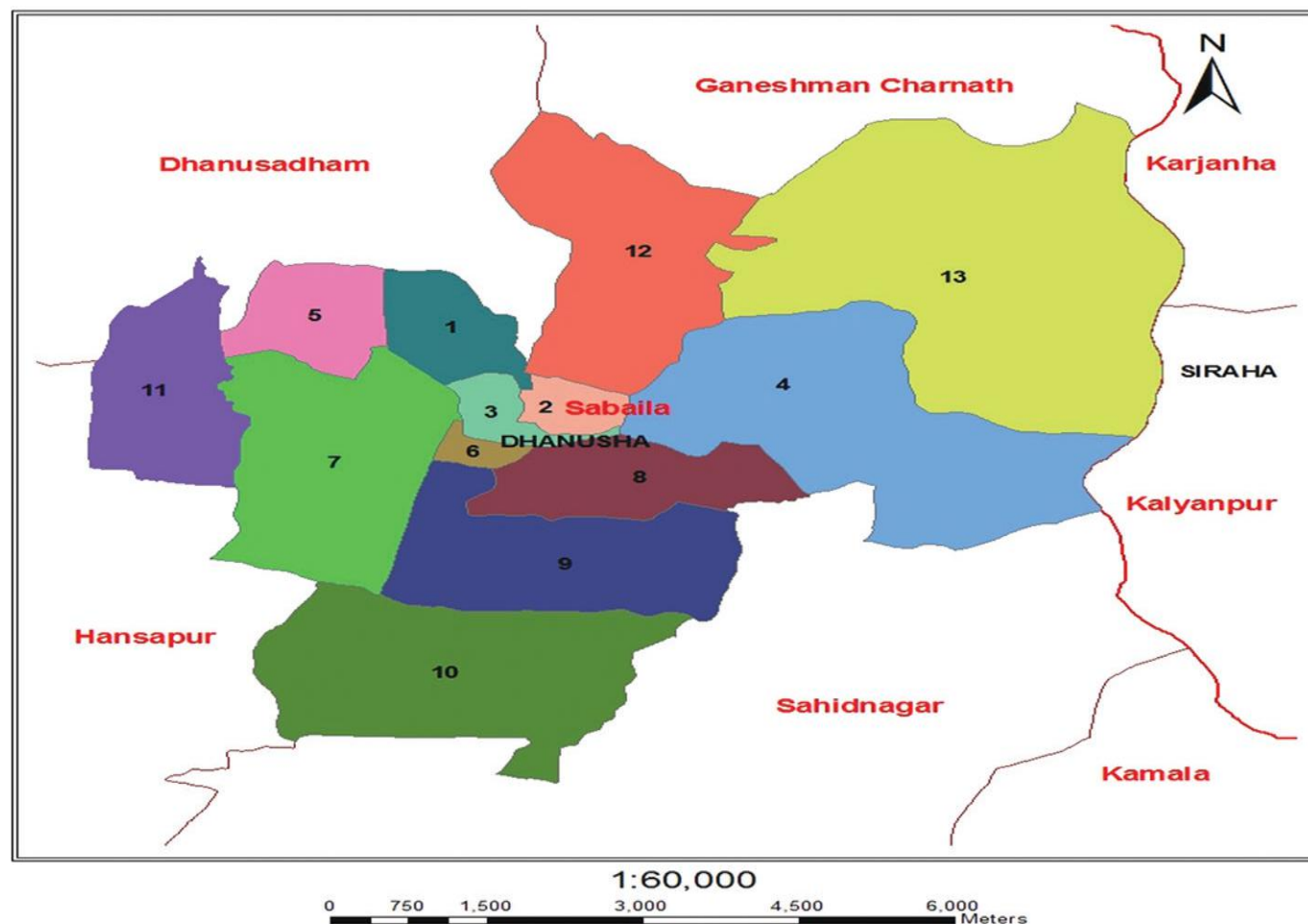
Ward Wise Cancer Incidence and Mortality: Shahidnagar Municipality



Ward Wise Cancer Incidence and Mortality: Shahidnagar Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	2	3	0	0	0
2	2	0	0	0	0	0	0
3	3	2	1	3	0	0	0
4	4	0	1	1	0	0	0
5	5	0	0	0	0	0	0
6	6	1	1	2	0	0	0
7	7	2	1	3	1	1	2
8	8	0	0	0	0	0	0
9	9	0	0	0	0	0	0
Total		6	6	12	1	1	2

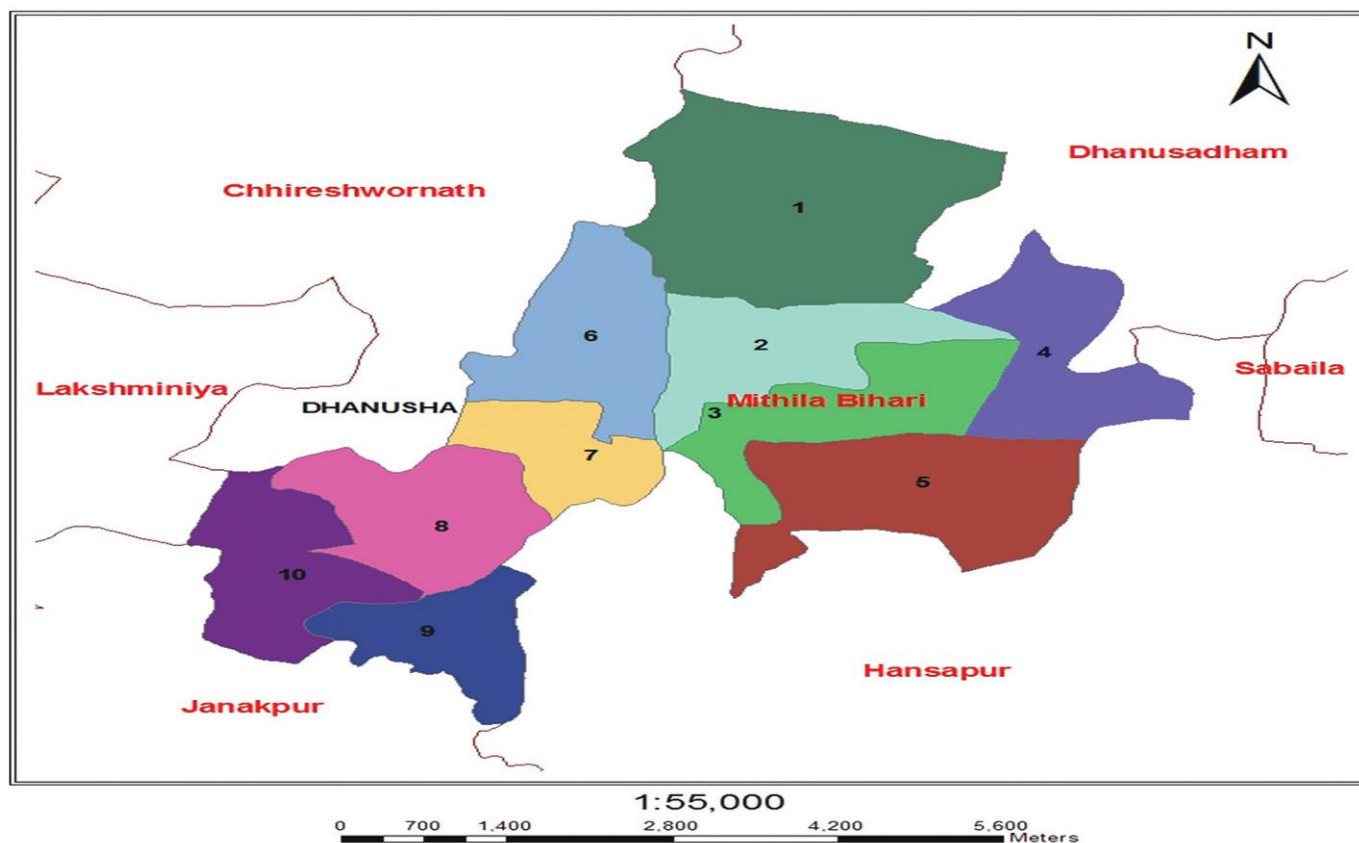
Ward Wise Cancer Incidence and Mortality: Sabaila Municipality



Ward Wise Cancer Incidence and Mortality: Sabaila Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	1	1	0	1	1
2	2	0	1	1	0	0	0
3	3	0	1	1	0	0	0
4	4	1	0	1	0	0	0
5	5	1	3	4	0	0	0
6	6	1	0	1	0	0	0
7	7	1	0	1	0	0	0
8	8	0	0	0	0	0	0
9	9	1	3	4	0	0	0
10	10	2	0	2	0	0	0
11	11	1	0	1	0	0	0
12	12	0	1	1	0	0	0
13	13	0	0	0	0	0	0
14	99	1	1	2	0	0	0
Total		9	11	20	0	1	1

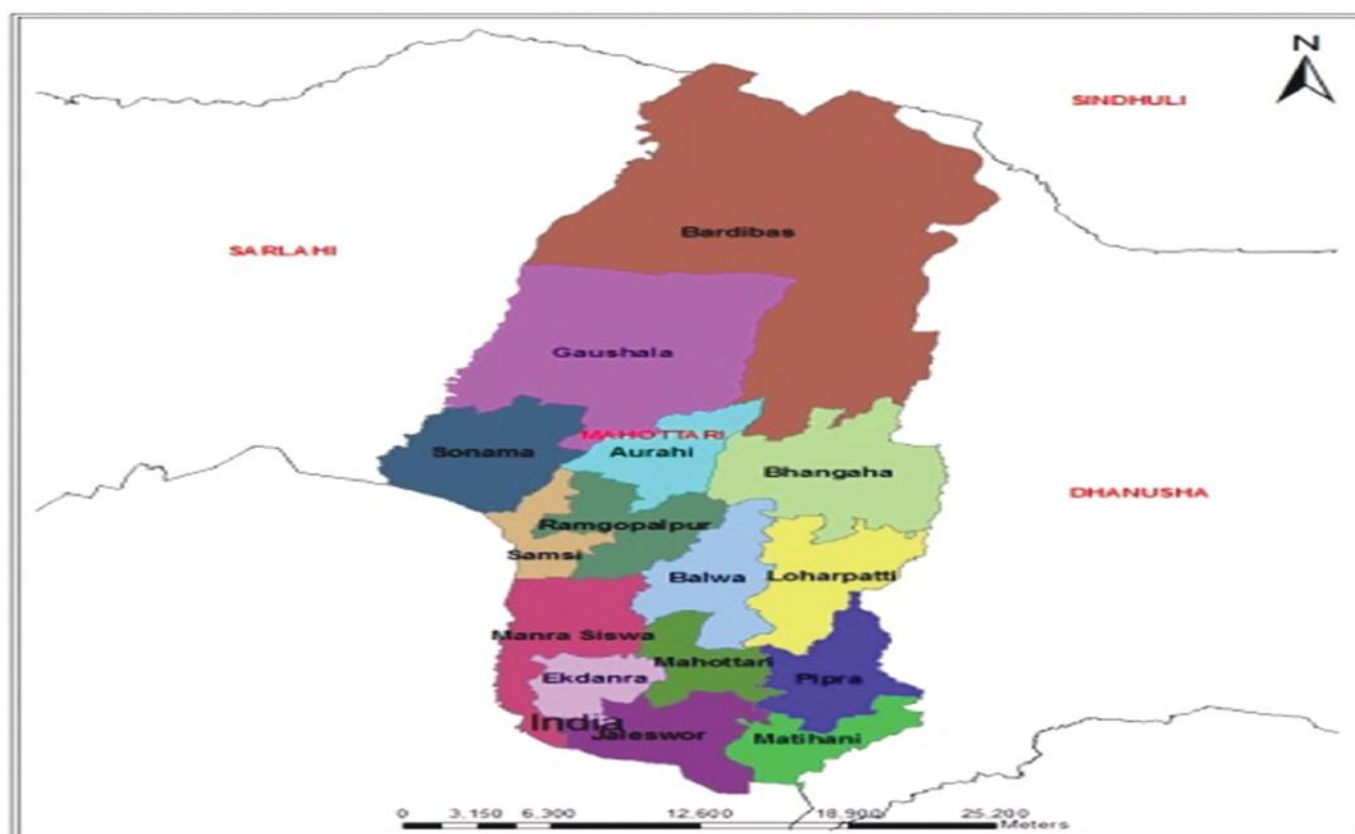
Ward Wise Cancer Incidence and Mortality: Mithila Bihari Municipality



Ward Wise Cancer Incidence and Mortality: Mithila Bihari Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	0	1	1	0	1
2	2	1	1	2	1	0	1
3	3	2	0	2	1	1	2
4	4	1	0	1	1	0	1
5	5	0	1	1	0	0	0
6	6	0	1	1	0	1	1
7	7	1	0	1	0	0	0
8	8	1	0	1	0	0	0
9	9	0	0	0	0	1	1
10	10	1	2	3	0	1	1
Total		9	5	13	4	4	8

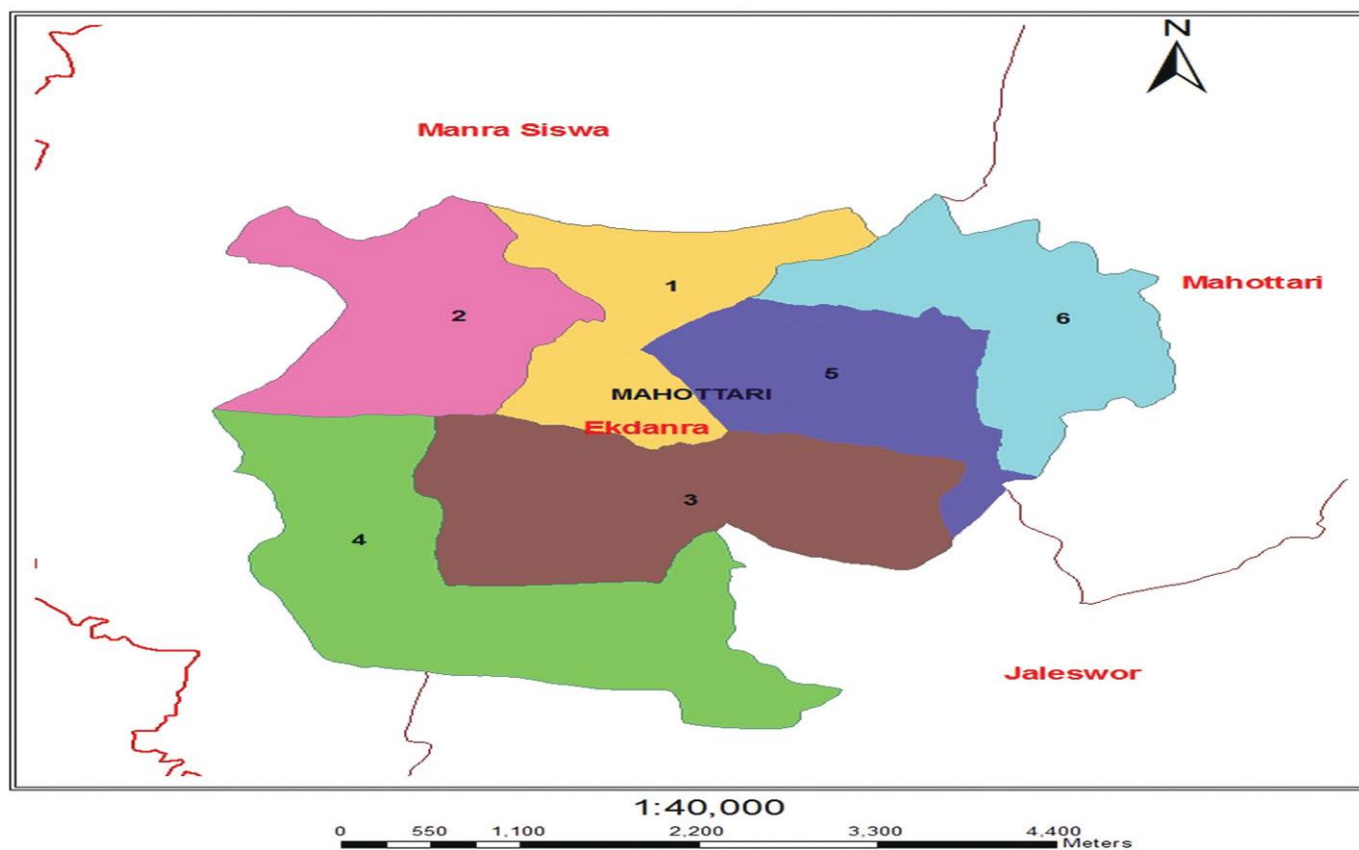
Urban/Rural Municipality Wise Cancer Incidence and Mortality: Mohattari District



Urban/Rural Municipality Wise Cancer Incidence and Mortality: Mahottari District

SN	Urban/Rural Municipality	Incidence Cases			Mortality Cases		
		Male	Female	Total	Male	Female	Total
1	Ekdhara Rural Municipality	1	3	4	0	0	0
2	Mahottari Rural Municipality	2	5	7	1	4	5
3	Pipra Rural Municipality	5	7	13	1	2	3
4	Samsi Rural Municipality	4	4	8	2	0	2
5	Sonama Rural Municipality	6	1	7	4	0	4
6	Aurahi Municipality	2	5	7	0	2	2
7	Bhangaha Municipality	4	9	13	1	3	4
8	Loharpatti Municipality	10	8	18	3	3	6
9	Matihani Municipality	6	5	11	1	1	2
10	Ram Gopalpur Municipality	4	4	8	2	4	6
11	Manara Shisawa Municipality	3	6	9	5	2	7
12	Balawa Municipality	9	12	21	3	3	6
13	Gaushala Municipality	9	8	17	2	4	6
14	Jaleswor Municipality	7	8	15	3	1	4
15	Bardibas Municipality	10	18	28	6	4	10
19	Unknown	21	18	39	0	0	0
Total		103	121	225	34	33	67

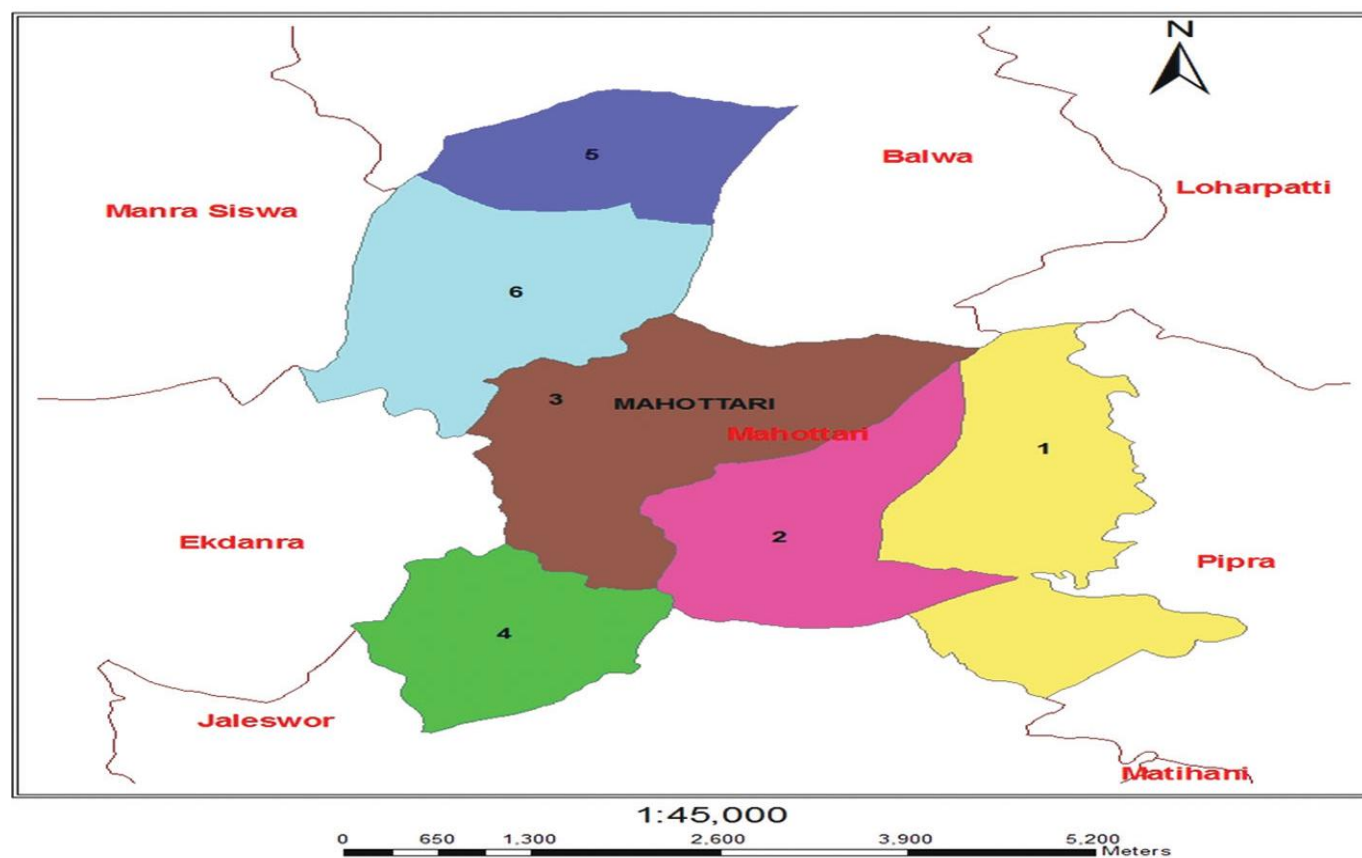
Ward Wise Cancer Incidence and Mortality: Ekdhara Rural Municipality



Ward Wise Cancer Incidence and Mortality: Ekdhara Rural Municipality

S.N	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	0	1	1	0	0	0
3	3	0	1	1	0	0	0
4	4	1	0	1	0	0	0
5	5	0	0	0	0	0	0
6	6	0	1	1	0	0	0
	Total	1	3	4	0	0	0

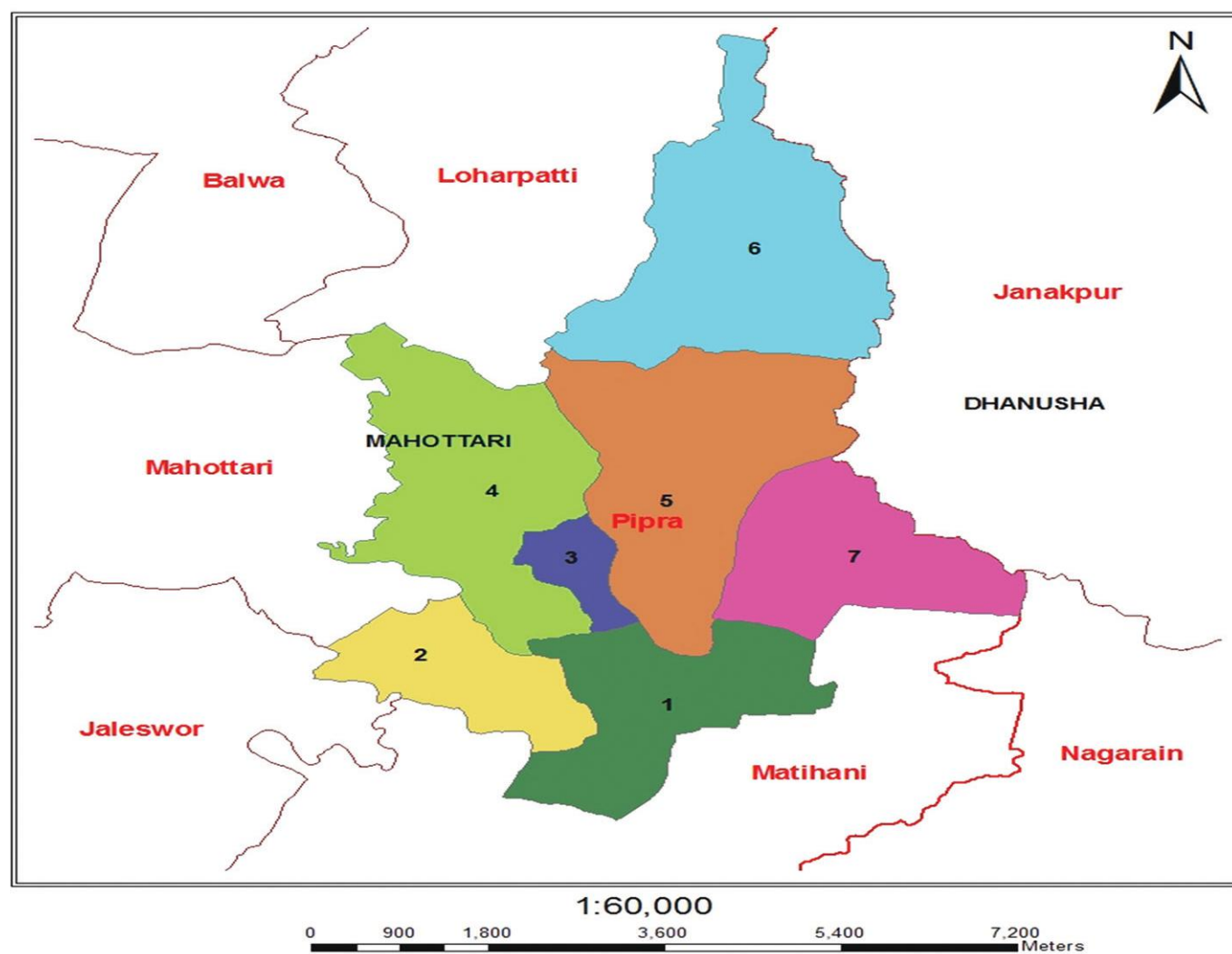
Ward Wise Cancer Incidence and Mortality: Mohattari Rural Municipality



Ward Wise Cancer Incidence and Mortality: Mohattari Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	1	1	0	1	1
2	2	0	1	1	0	0	0
3	3	1	3	4	0	3	3
4	4	0	0	0	0	0	0
5	5	1	0	1	1	0	1
6	6	0	0	0	0	0	0
Total		2	5	7	1	4	5

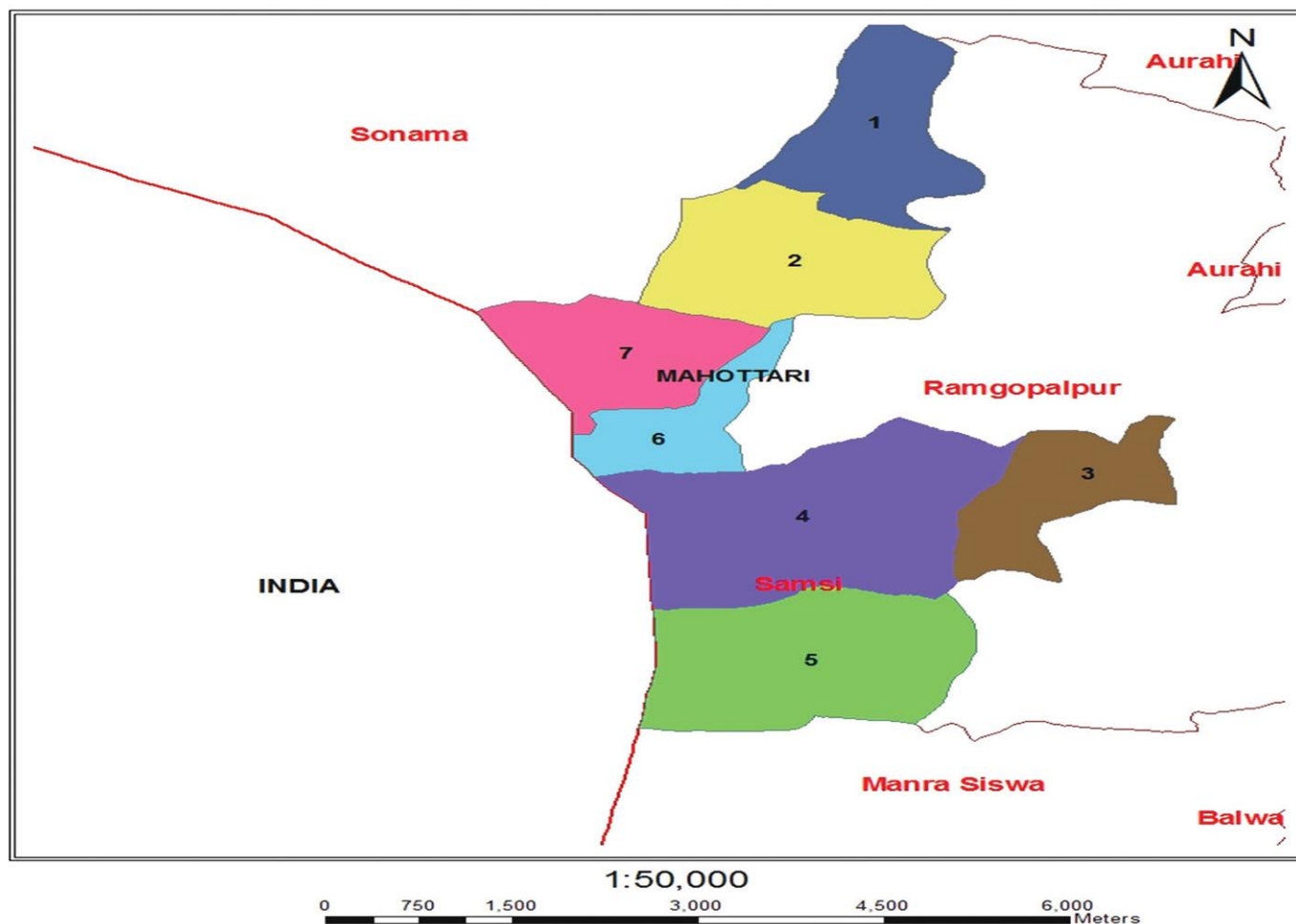
Ward Wise Cancer Incidence and Mortality: Pipra Rural Municipality



Ward Wise Cancer Incidence and Mortality: Pipra Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	1	2	0	1	1
2	2	1	0	1	0	0	0
3	3	1	0	1	0	0	0
4	4	0	1	1	0	0	0
5	5	1	1	2	0	0	0
6	6	1	2	4	1	1	2
7	7	0	2	2	0	0	0
Total		5	7	13	1	2	3

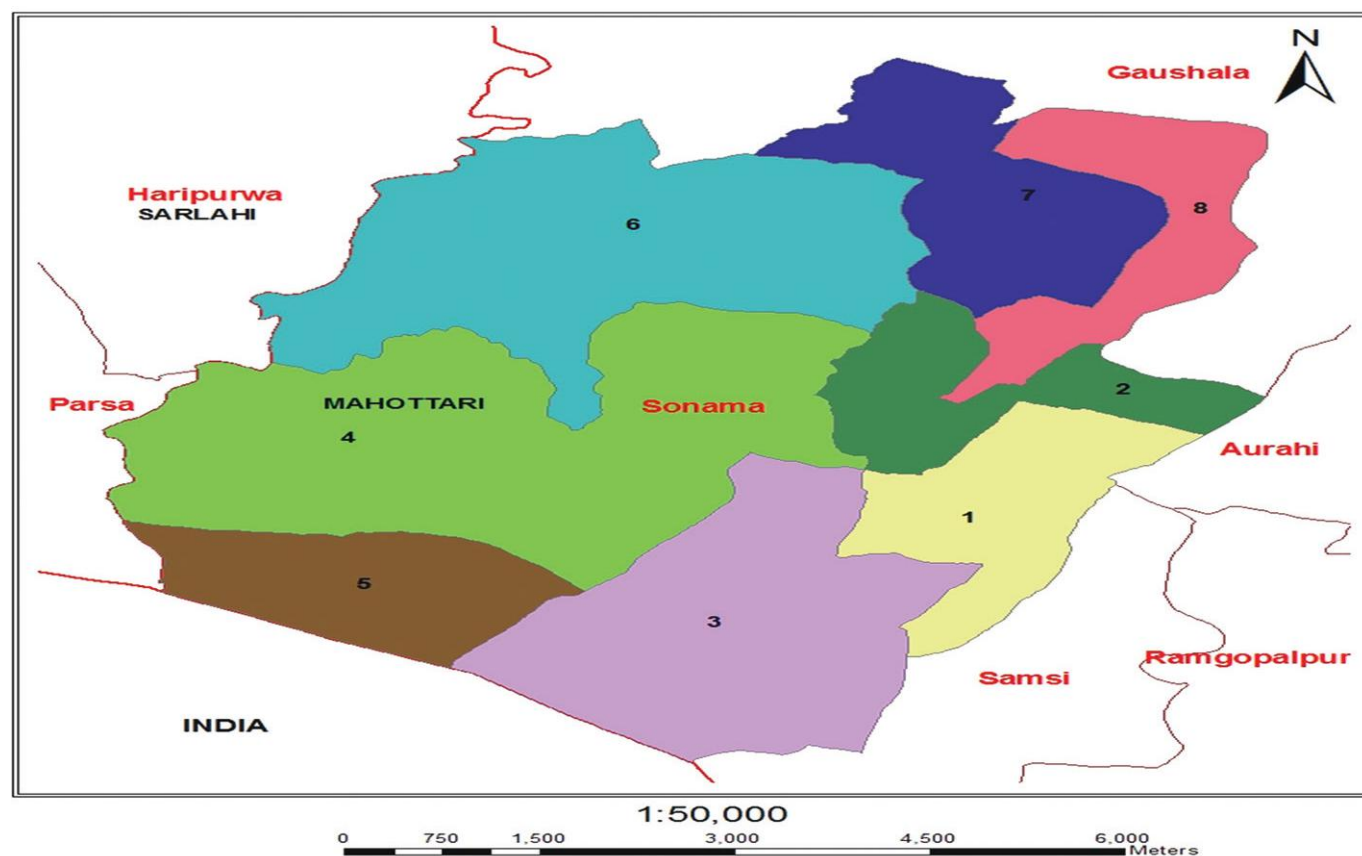
Ward Wise Cancer Incidence and Mortality: Samsi Rural Municipality



Ward Wise Cancer Incidence and Mortality: Samsi Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	1	1	0	0	0
2	2	1	1	2	1	0	1
3	3	0	0	0	0	0	0
4	4	2	2	4	1	0	1
5	5	0	0	0	0	0	0
6	6	0	0	0	0	0	0
7	7	1	0	1	0	0	0
Total		4	4	8	2	0	2

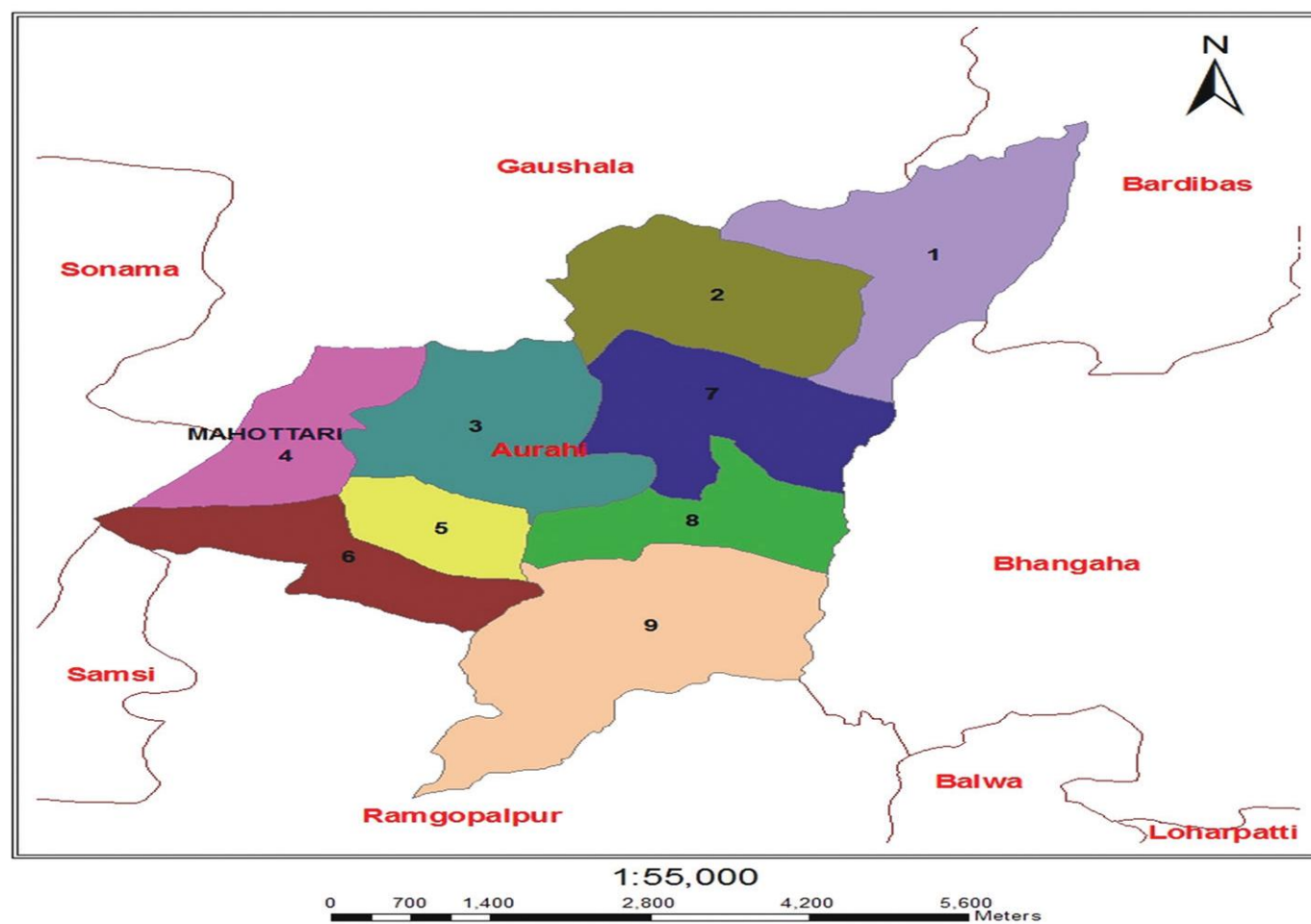
Ward Wise Cancer Incidence and Mortality: Sonama Rural Municipality



Ward Wise Cancer Incidence and Mortality: Sonama Rural Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	0	1	1	0	0	0
3	3	0	0	0	0	0	0
4	4	1	0	1	0	0	0
5	5	1	0	1	0	0	0
6	6	1	0	1	3	0	3
7	7	1	0	1	0	0	0
8	8	2	0	2	1	0	1
Total		6	1	7	4	0	4

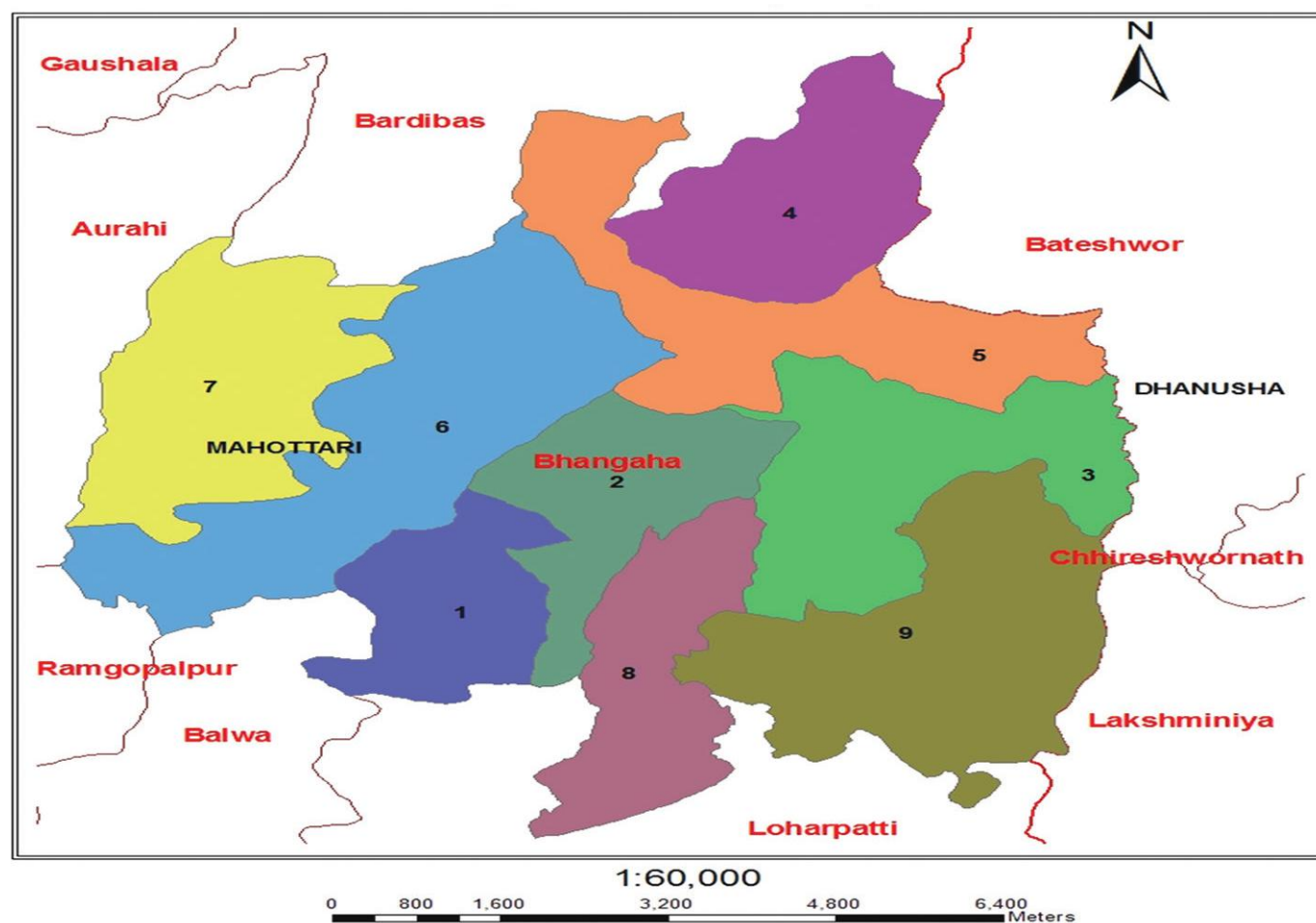
Ward Wise Cancer Incidence and Mortality: Aurahi Municipality



Ward Wise Cancer Incidence and Mortality: Aurahi Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	1	1	0	0	0
2	2	0	0	0	0	0	0
3	3	0	1	1	0	0	0
4	4	0	0	0	0	0	0
5	5	0	1	1	0	1	1
6	6	1	0	1	0	0	0
7	7	0	0	0	0	0	0
8	8	0	1	1	0	0	0
9	9	1	1	2	0	1	1
Total		2	5	7	0	2	2

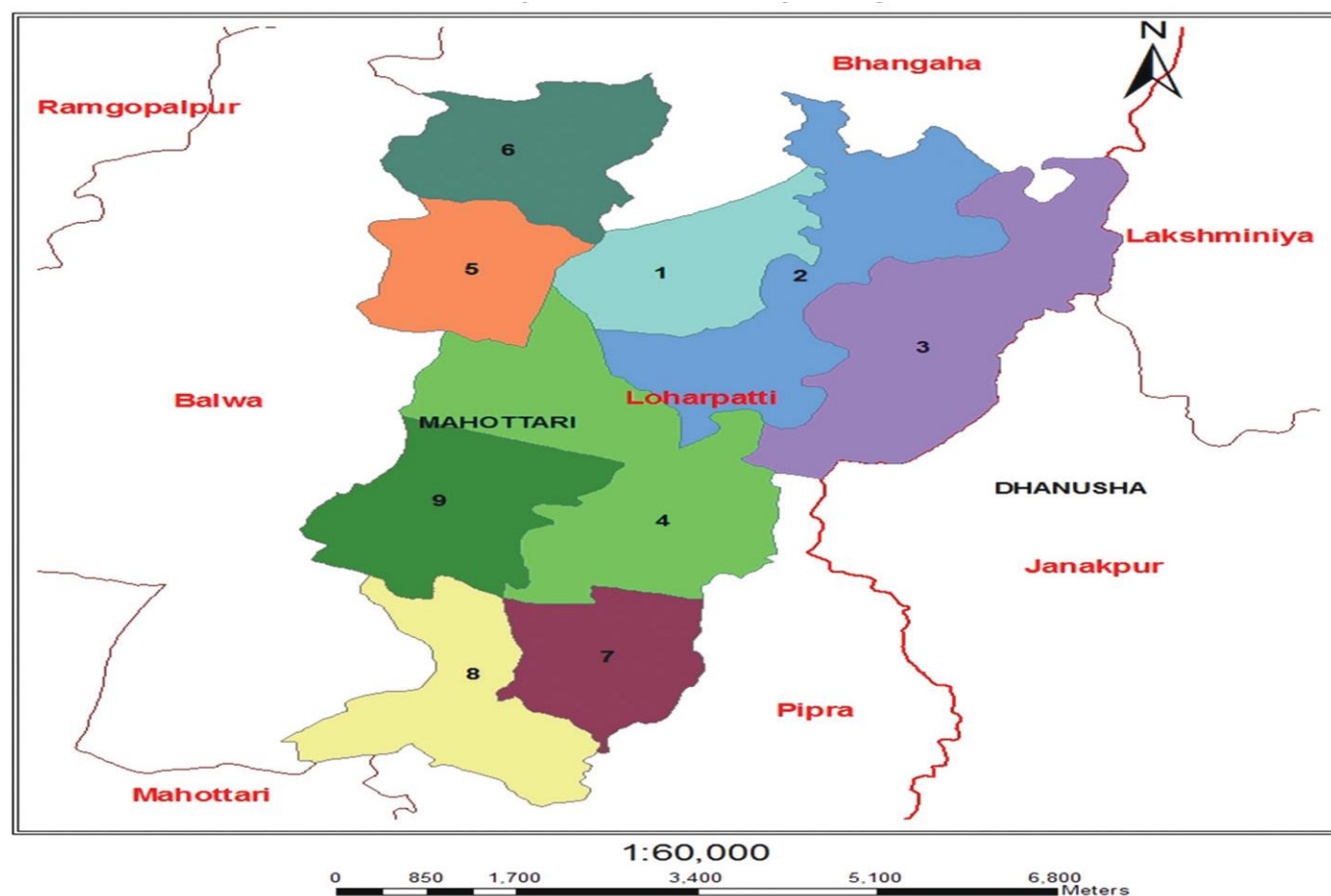
Ward Wise Cancer Incidence and Mortality: Bhangaha Municipality



Ward Wise Cancer Incidence and Mortality: Bhangaha Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	4	4	0	0	0
2	2	2	2	4	0	0	0
3	3	1	0	1	0	0	0
4	4	0	1	1	0	0	0
5	5	0	1	1	0	0	0
6	6	0	0	0	0	0	0
7	7	1	1	2	0	1	1
8	8	0	0	0	1	2	3
9	9	0	0	0	0	0	0
Total		4	9	13	1	3	4

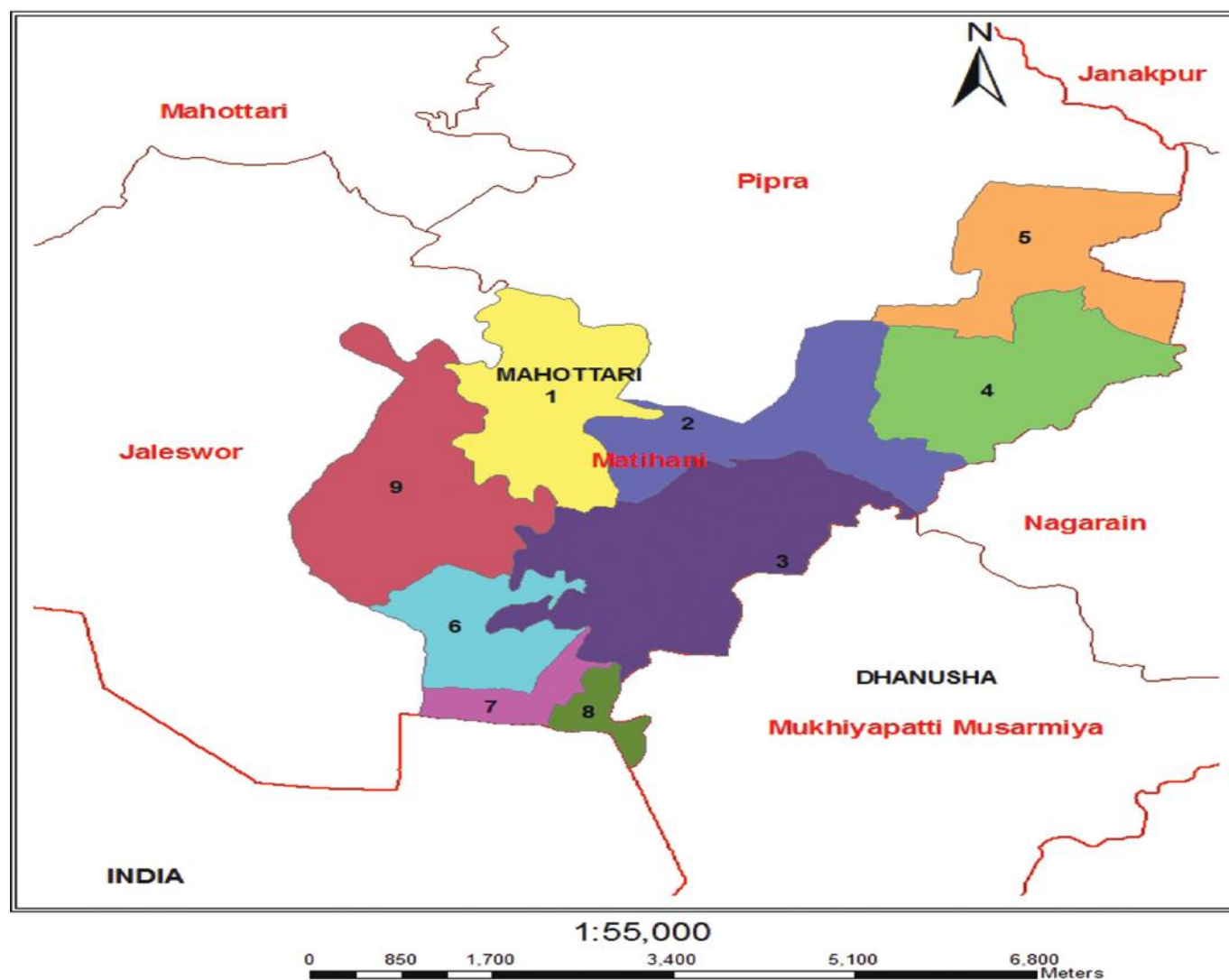
Ward Wise Cancer Incidence and Mortality: Loharpatti Municipality



Ward Wise Cancer Incidence and Mortality: Loharpatti Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	0	1	0	0	0
2	2	1	1	2	1	0	1
3	3	3	2	5	2	1	3
4	4	0	0	0	0	1	1
5	5	0	0	0	0	0	0
6	6	1	1	2	0	0	0
7	7	2	3	5	0	1	1
8	8	0	1	1	0	0	0
9	9	1	0	1	0	0	0
10	Unknown	1	0	1	0	0	0
Total		10	8	18	3	3	6

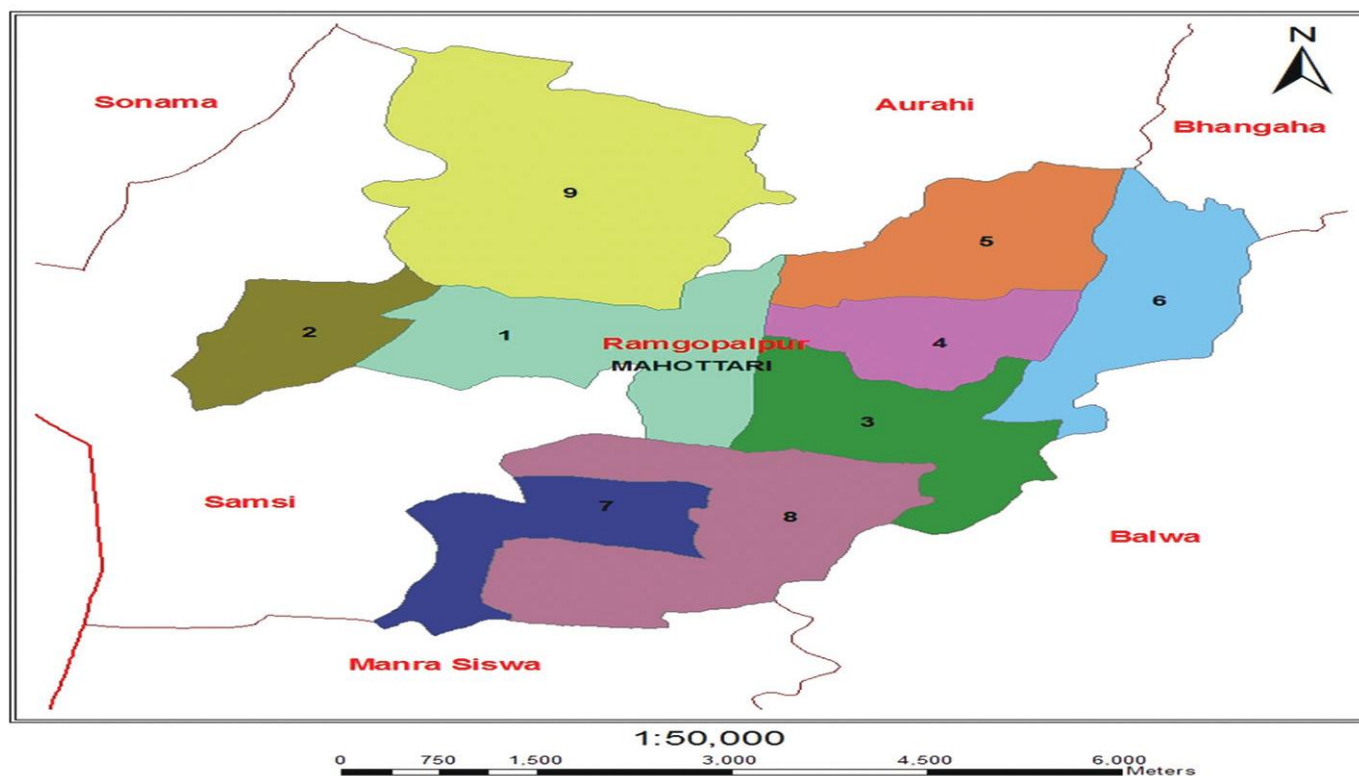
Ward Wise Cancer Incidence and Mortality: Matihani Municipality



Ward Wise Cancer Incidence and Mortality: Matihani Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	0	0	0	0	0
2	2	2	1	3	1	0	1
3	3	1	1	2	0	0	0
4	4	0	0	0	0	0	0
5	5	0	0	0	0	0	0
6	6	2	0	2	0	0	0
7	7	0	1	1	0	0	0
8	8	1	0	1	0	0	0
9	9	0	1	1	0	0	0
10	Unknown	0	1	1	0	1	1
Total		6	5	11	1	1	2

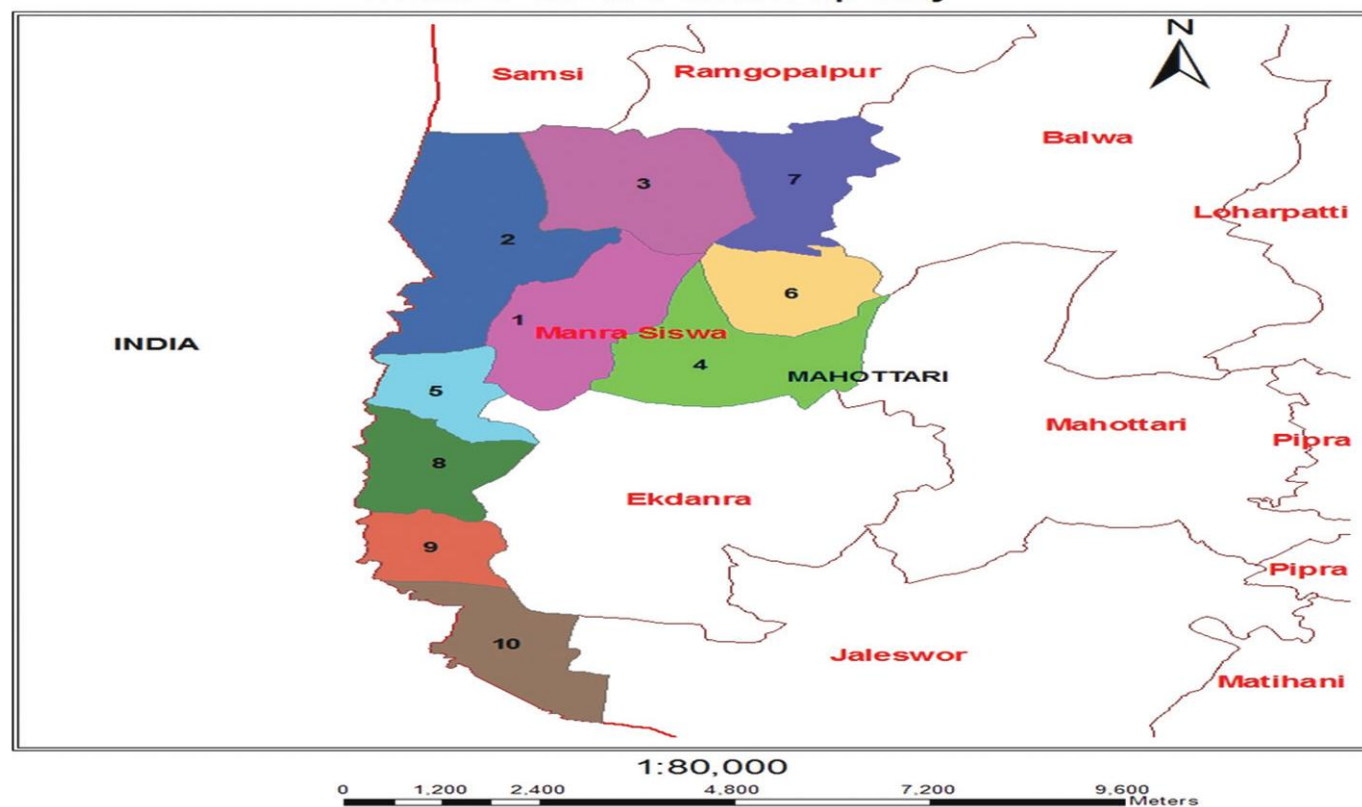
Ward Wise Cancer Incidence and Mortality: Ram Gopalpur Municipality



Ward Wise Cancer Incidence and Mortality: Ram Gopalpur Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	1	1	0	1	1
2	2	0	0	0	0	0	0
3	3	3	0	3	1	0	1
4	4	0	1	1	0	1	1
5	5	0	0	0	0	0	0
6	6	1	2	3	1	2	3
7	7	0	0	0	0	0	0
8	8	0	0	0	0	0	0
9	9	0	0	0	0	0	0
Total		4	4	8	2	4	6

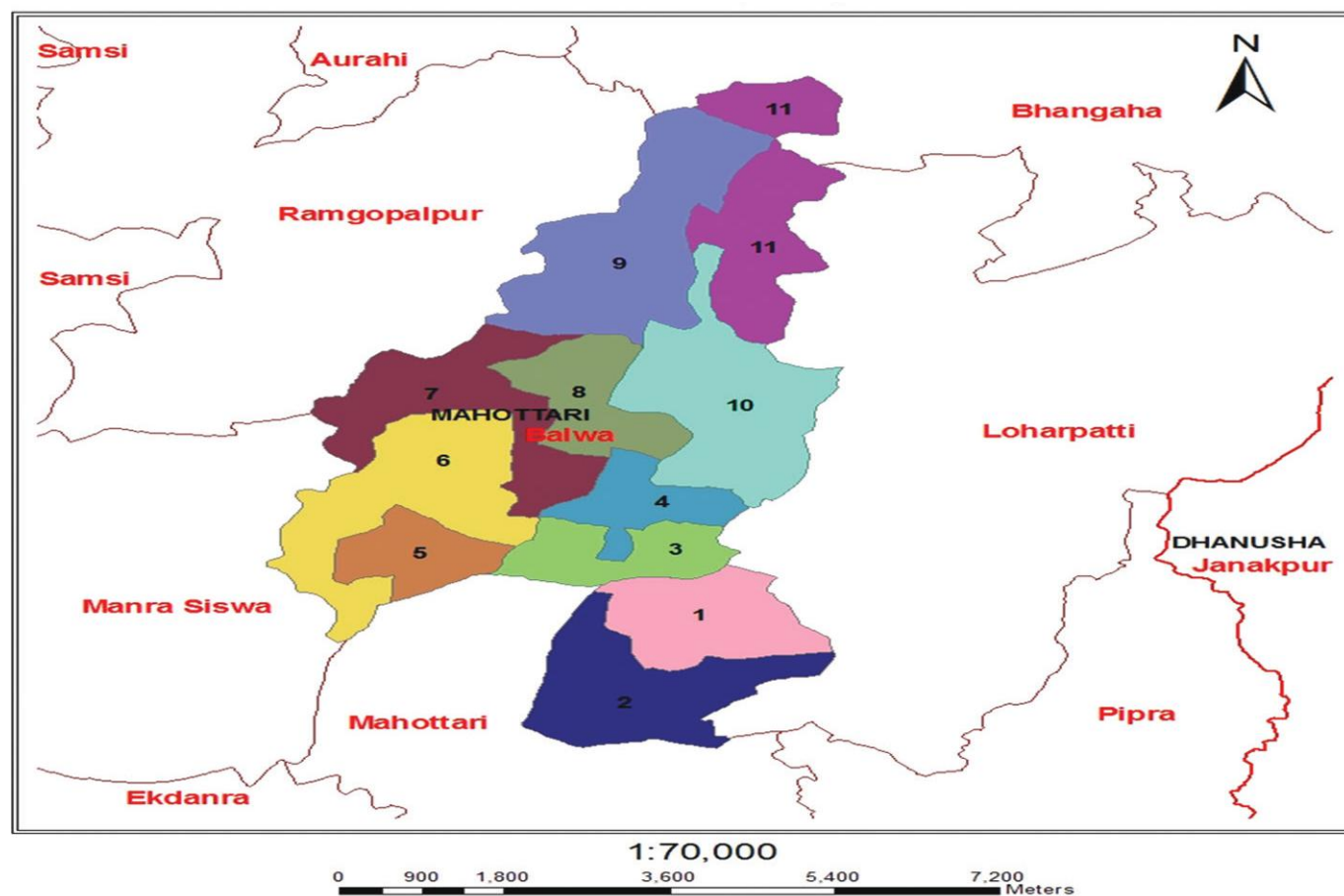
Ward Wise Cancer Incidence and Mortality: Manara Shisawa Municipality



Ward Wise Cancer Incidence and Mortality: Manara Shisawa Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	1	1	0	0	0
2	2	0	0	0	0	0	0
3	3	0	2	2	1	1	2
4	4	0	0	0	0	0	0
5	5	0	0	0	0	0	0
6	6	0	0	0	1	0	1
7	7	0	0	0	0	0	0
8	8	1	1	2	2	0	2
9	9	1	1	2	0	0	0
10	10	1	1	2	1	1	2
Total		3	6	9	5	2	7

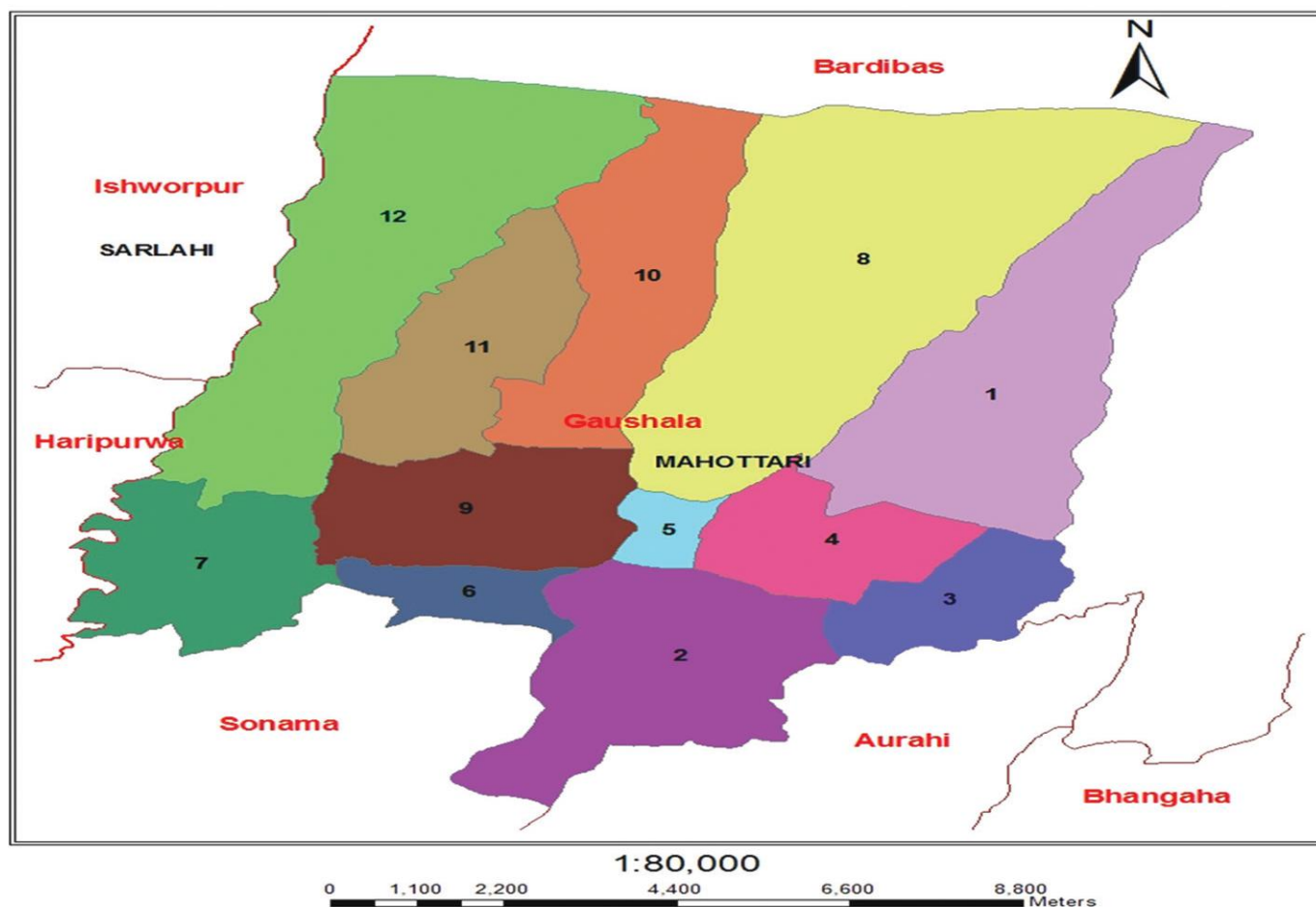
Ward Wise Cancer Incidence and Mortality: Balawa Municipality



Ward Wise Cancer Incidence and Mortality: Balawa Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	0	1	0	0	0
2	2	1	1	2	0	0	0
3	3	1	1	2	0	0	0
4	4	0	2	2	1	0	1
5	5	1	0	1	0	0	0
6	6	0	0	0	0	0	0
7	7	2	2	4	1	0	1
8	8	1	1	2	1	1	2
9	9	0	3	3	0	1	1
10	10	0	2	2	0	1	1
11	11	1	0	1	0	0	0
12	Unknown	1	0	1	0	0	0
Total		9	12	21	3	3	6

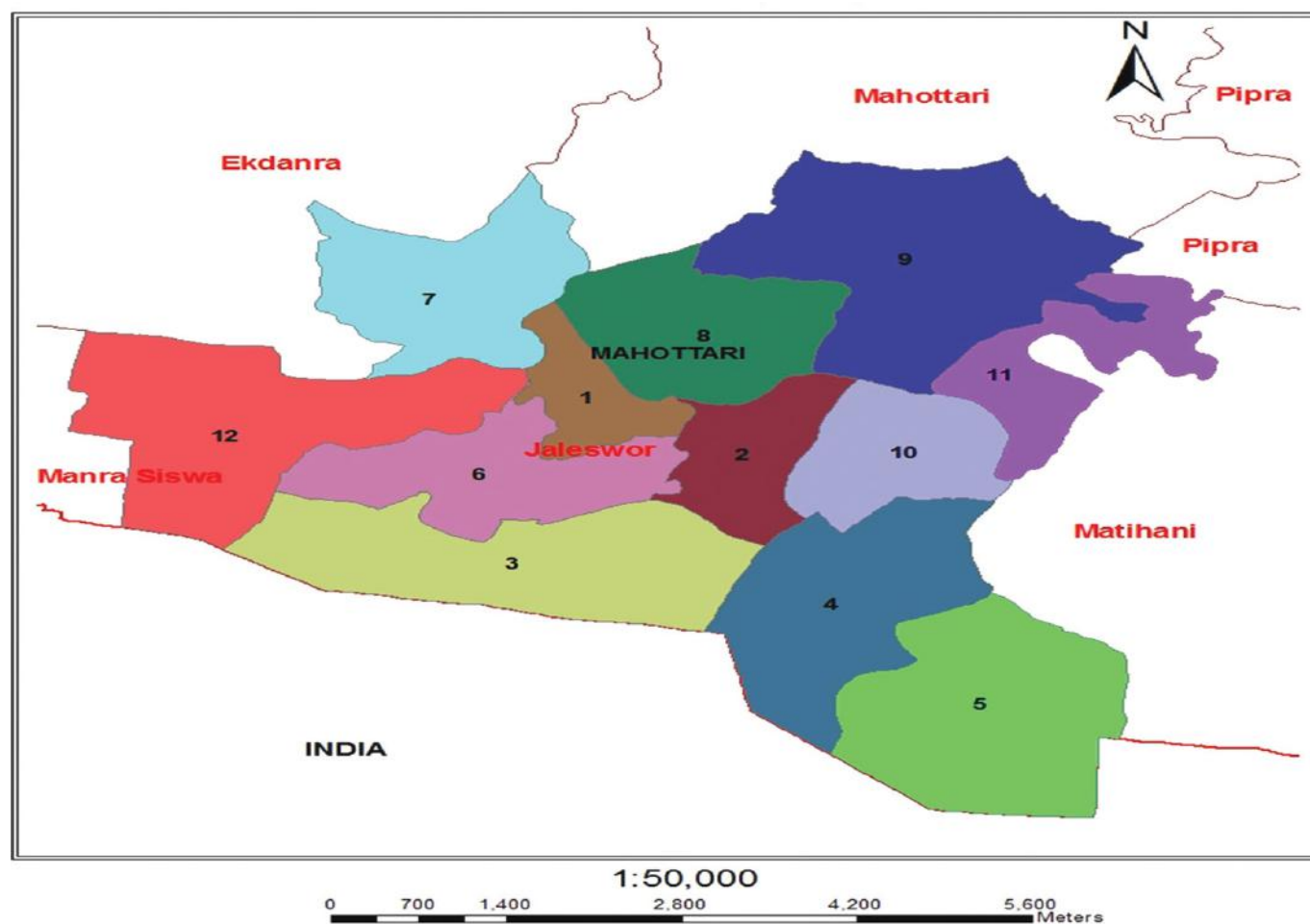
Ward Wise Cancer Incidence and Mortality: Gaushala Municipality



Ward Wise Cancer Incidence and Mortality: Gaushala Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	0	1	0	0	0
2	2	0	0	0	0	0	0
3	3	0	0	0	0	0	0
4	4	0	0	0	0	0	0
5	5	1	1	2	0	3	3
6	6	1	0	1	1	0	1
7	7	2	1	3	0	0	0
8	8	0	2	2	0	1	1
9	9	1	0	1	1	0	1
10	10	1	3	4	0	0	0
11	11	0	1	1	0	0	0
12	12	1	0	1	0	0	0
13	Unknown	1	0	1	0	0	0
Total		9	8	17	2	4	6

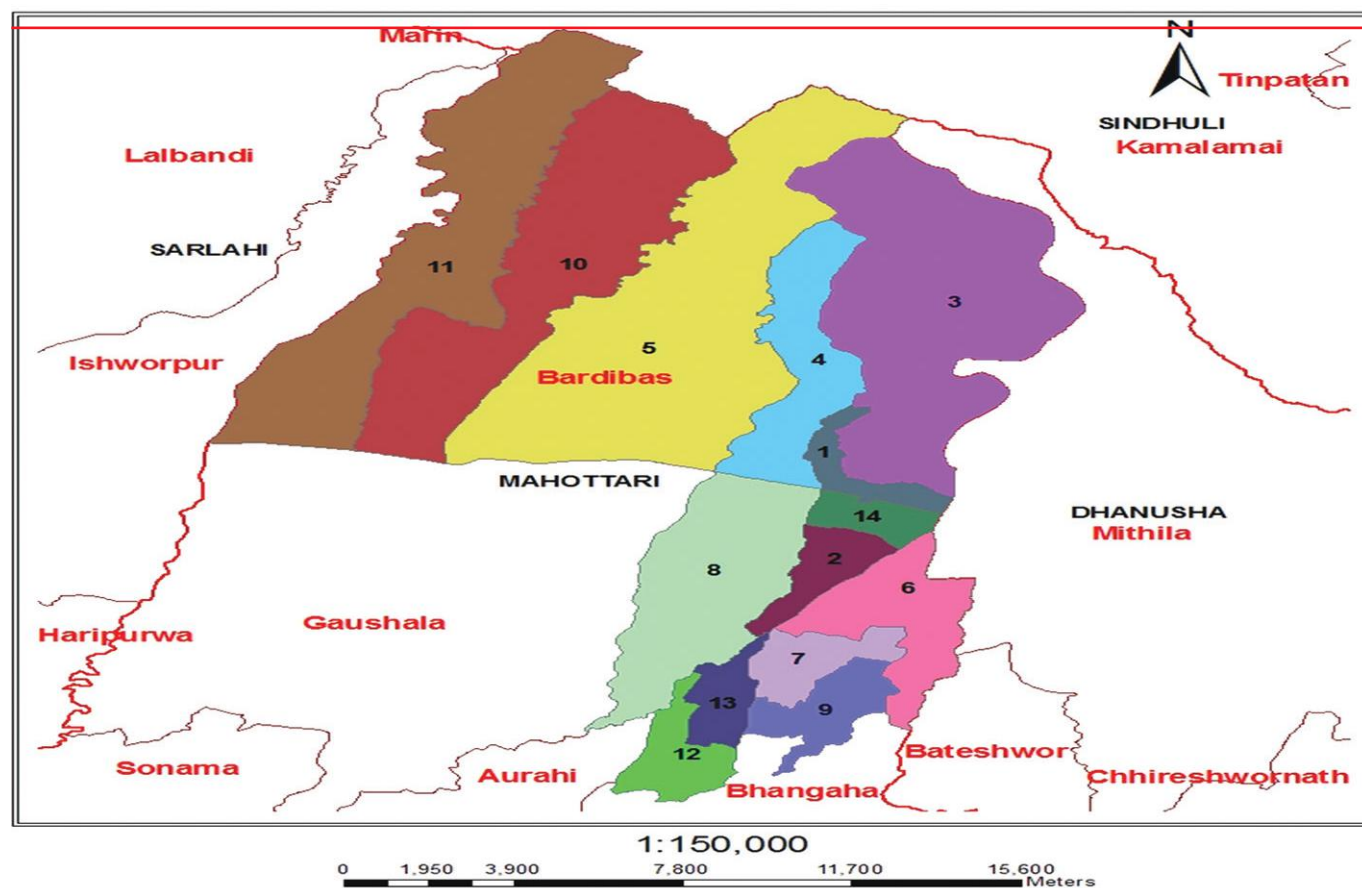
Ward Wise Cancer Incidence and Mortality: Jaleswor Municipality



Ward Wise Cancer Incidence and Mortality: Jaleswor Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	0	1	1	0	0	0
2	2	1	0	1	1	0	1
3	3	0	1	1	0	0	0
4	4	3	0	3	0	0	0
5	5	0	1	1	0	0	0
6	6	0	3	3	0	1	1
7	7	1	1	2	1	0	1
8	8	0	0	0	0	0	0
9	9	1	0	1	0	0	0
10	10	0	0	0	0	0	0
11	11	1	0	1	1	0	1
12	12	0	0	0	0	0	0
13	Unknown	0	1	1	0	0	0
Total		7	8	15	3	1	4

Ward Wise Cancer Incidence and Mortality: Bardibas Municipality



Ward Wise Cancer Incidence and Mortality: Bardibas Municipality

SN	Ward No	Incidence			Mortality		
		Male	Female	Total	Male	Female	Total
1	1	1	1	2	0	0	0
2	2	0	2	2	0	1	1
3	3	1	0	1	0	0	0
4	4	0	1	1	0	0	0
5	5	3	1	4	3	0	3
6	6	0	0	0	0	0	0
7	7	1	2	3	1	0	1
8	8	0	3	3	0	2	2
9	9	1	4	5	0	1	1
10	10	1	0	1	0	0	0
11	11	1	0	1	2	0	2
12	12	1	0	1	0	0	0
13	13	0	0	0	0	0	0
14	14	0	2	2	0	0	0
15	Unknown	0	2	2	0	0	0
Total		10	18	28	6	4	10

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Executive Chief

Nepal Health Research Council

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प.सं: २०७४।०७५(यो)

च.नं. १२०

नेपाल सरकार

स्वास्थ्य मन्त्रालय

(नीति, योजना तथा कार्यक्रम शाखा)



खि ४२६२६४३

रामशाहपथ,

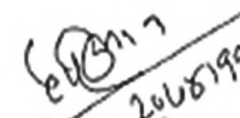
काठमाण्डौ

मिति: २०७४।११।२३

विषय: स्वीकृत वार्षिक कार्यक्रम पठाइएको सम्बन्धमा।

✓ श्री नेपाल स्वास्थ्य अनुसन्धान परिषद्
रामशाहपथ, काठमाण्डौ।

चालु आ.व. २०७४।७५ मा तर्होवाट सञ्चालन हुने व.उ.शि.नं. ३७०१२७ स्वास्थ्य करकोषको कार्यक्रम र तर्होवाट पेश भएको नेपालमा जनसंख्यामा आधारित क्यान्सर रजिष्ट्रि (Population based Cancer Registry-PBCR) सम्बन्धी विस्तृत परियोजना प्रस्ताव (Detail Project Proposal) नेपाल सरकार (सचिवस्तर) मिति २०७४।११।२१ को निर्णयानुसार स्वीकृत भएकोले आवश्यक कार्यार्थ यसैसाथ संलग्न गरी पठाइएको छ। सवेस्मम कार्यक्रम संशोधन गर्नु हुन र कथंकदाचित संशोधन गर्नु पर्ने अवस्था आएमा त्यसबाट पर्ने असरहरू तथा संशोधन गर्नुपर्नाको पर्याप्त पुष्ट्याई सहितको विवरण उपलब्ध गराउने व्यवस्था गर्नुहुन तथा कार्यक्रम संचालन गर्दा प्रचलित कानून एवं अख्तियारीको पालना गर्नुका अतिरिक्त वित्तीय पारदर्शिता, जवाफदेहिता र अनुगमन सम्बन्धी व्यवस्था अनुरूप नियमानुसार प्रगति विवरण यस मन्त्रालयको जनस्वास्थ्य प्रशासन, अनुगमन तथा मूल्यांकन महाशाखामा पठाउनु हुन समेत निर्देशानुसार अनुरोध गर्दछु।


2074/11/23
(हरिकृष्ण फुयाँल)
शाखा अधिकृत

बोधार्थ:

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