

Cancer Incidence and Mortality in Sangrur District, Punjab State, India: 2013

First Annual Report of the Population Based Cancer Registry



Punjab State, India



Sangrur District, Punjab State, India

Tata Memorial Centre, Mumbai, India

Post Graduate Institute of Medical Education and Research, Chandigarh, India

Department of Health and Family Welfare, Government of Punjab State, India

Civil Hospital, Sangrur District, Punjab State, India

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Executive Summary

Background

Tata Memorial Centre, Mumbai (TMC) an autonomous institute under the Department of Atomic Energy, Government of India has started the Population-based Cancer Registry in Sangrur District on 1st January 2013 in collaboration with Post Graduate Institute of Medical Education and Research, Chandigarh (PGI) and Department of Health and Family Welfare, Government of Punjab. The registry is located in Civil Hospital Campus of the Sangrur. The objective of the cancer registry is to measure the cancer burden in terms of incidence and mortality and to know the patterns of cancer in the district. The cancer registry data will be useful in planning the cancer control activities and to strengthen the cancer care services in this area.

Population Covered

The cancer registry covers the seven Health Blocks of the district - Moonak, Longowol, Bhawanigarh, Amargarh, Kauhrian, Sherpur and Fatehgarh Panj-Garian covering population of 17,01,375. The registry covers urban area as well 585 villages of the district. More than 65% population of the district is rural.

Registration Method

The trained Social Workers of the registry regularly visit the villages as well as different hospitals, pathology laboratories, medical colleges, cancer centre, Births and Deaths Registrar office to collect the cancer incidence and death cases. The registry staff interact with village Sarpanch, ANM, ASHA worker, primary health centre staff periodically to get to know the cancer cases diagnosed in the area as well as cancer death occurred in the village. With the help of ASHA worker, the registry staff interacts with the patient's relative and note down the information available with the patient. This information is further confirmed at the treating hospital. After residence confirmation (residence of the district for at least one year), duplicate checking by senior staff, case is registered in prescribed format. The data entry is carried out in Canreg5 software. Due to continued interaction with the community, we update the survival status of cancer patient. As on 1st June 2015, we have survival status of more than 90% cancer patients. This information will be utilized for the cancer survival analysis.

The comprehensive cancer treatment facility is not available in Sangrur district. Patient from this area travel to Bathinda, Ludhiana, Bikaner, Chandigarh, Patiala and Faridkot. The nearest centre is 60 Kms and farthest centre is 420 kms. Tata Memorial Centre has started the Homi Bhabha Cancer Hospital in Sangrur district. It is functioning from January 2015.

Results

In the year 2013, the cancer registry has registered 798 incidence cancer cases (378 males and 420 females). The age adjusted incidence rate for males 43.7 per 100,000 and for females 52.6 per 100,000 population. The cumulative risk for the age group 0-74 in males is 5% (1 in 20 men is at risk of getting cancer) and in females it is 6% i.e. (1 in 16 females is at risk of getting cancer).

The cancer registry has registered 448 cancer deaths. In males we have registered 243 deaths and 205 females deaths. The age adjusted mortality rate for males 28.4 per 100,000 and for females 26.0 per 100,000 population.

Leading Cancer Sites

In males, Oesophagus, Prostate, Brain, Liver and Lung are the leading cancer sites. In female Breast, Cervix Uteri, Oesophagus, Ovary and Gall bladder are the leading cancer sites. Leading cancer sites are mentioned in Table I and II.

Table I: Leading Cancer Sites in Males

ICD 10	Sites	Number	CR	AAR	TR
C15	Oesophagus	44	4.9	5.1	9.7
C61	Prostate	24	2.7	2.7	4.2
C70-C72	Brain, NS	17	1.9	2.0	4.6
C22	Liver	15	1.7	1.8	4.5
C33-C34	Trachea, bronchus & lung	14	1.6	1.7	4.0

Table II: Leading Cancer Sites in Females

ICD 10	Sites	Number	CR	AAR	TR
C50	Breast	96	12.0	11.8	31.9
C53	Cervix Uteri	77	9.6	9.7	24.9
C15	Oesophagus	31	3.9	3.9	9.3
C56	Ovary	28	3.5	3.5	9.0
C23-C24	Gall Bladder	19	2.4	2.4	6.1

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

Under Registration

In the first year, we have noted 13.2% primary unknown cases in males and 6.4% in females. More the primary site unknown cases are clearly related to the quality of diagnostic information as well the poor documentation of the medical records. There may be under registration / under diagnosis of the cancer incidence and mortality cases. We may have missed the clinically diagnosed cases as well the internal organ cancer cases and pediatric cancer cases. We feel under registration will be in the range of 10% to 15%. Mainly the under registration will be more in urban area as it was difficult to cover the urban area with the help of community leaders. Due to continued interaction in the villages the chances of under registration are less while the chances of under diagnosis will be more. For the completeness of the cancer registration, registry has planned house to house survey in the coming years. The quality control exercise was carried out, the results of the quality control are satisfactory.

Comparison of Cancer Registry Rate with other Registries in India

As compared to other parts of the India, cancer Incidence rates are lower and are in comparison with other parts of rural India.

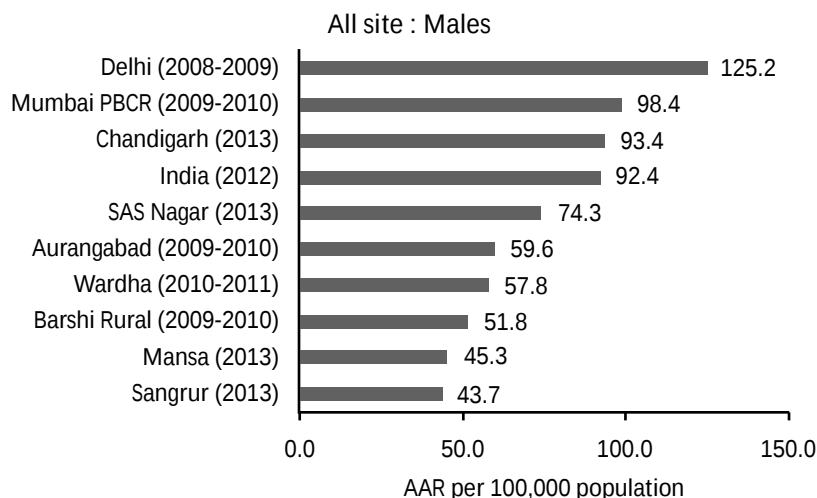


Figure I : All site cancer incidence rate - Males

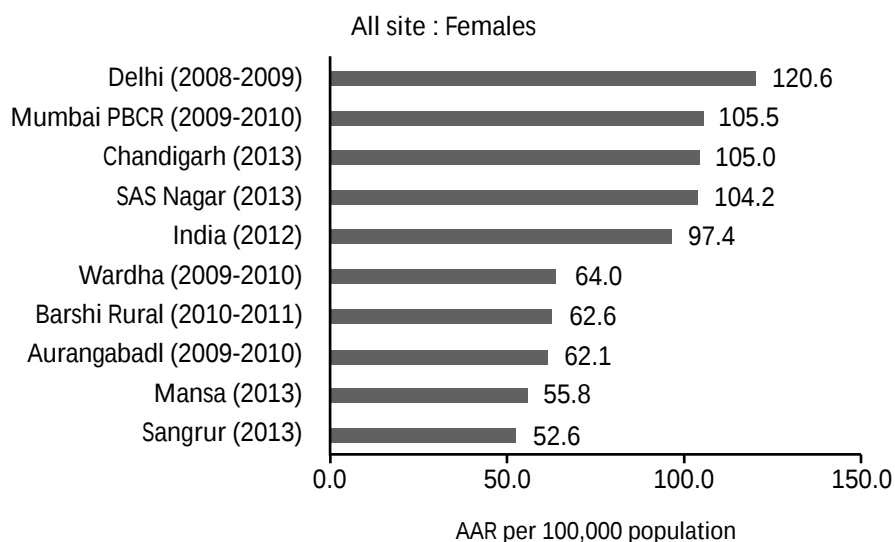


Figure II : All site cancer incidence rate – Females

Cancer Control in Sangrur district

Cancer registries are the first step in cancer control. The registry data has estimated the risk of getting cancer in males is 5% and in females 6%. The major cancers in Sangrur district are Breast, Cervix Uteri, Oesophagus, and prostate. Most of the cancers are preventable. Based on the observation from the registry, Tata Memorial Centre has started satellite centre in Sangrur and will establish comprehensive cancer centre in SAS Nagar. In addition PGIMER is also starting 500 bedded multispeciality hospital in Sangrur besides the facilities offered at Regional Cancer Centre, PGIMER, Chandigarh. Cancer awareness programme needed to be started particularly for early detection of Breast and Cervical cancer. The registries will be useful in future to monitor cancer trends and evaluate the effects of prevention and treatment.

1. Punjab State Profile

Punjab is situated in the northwest India. The Indian state borders the Pakistani province of Punjab to the west, Jammu and Kashmir to the north, Himachal Pradesh to the northeast, Chandigarh to the east, Haryana to the south and southeast and Rajasthan to the southwest. The total area of the state is 50,362 square kilometers. The population is 2,77,04,236 (Census 2011) ¹. Punjab's capital is Chandigarh, which is administered separately as a Union Territory since it is also the capital of neighboring Haryana State.

As per Census 2011, Punjab has a total population of 2,77, 04,236 out of which 1,46,34,819 are males and 1,30,69,417 are females. It constitutes 2.29% of the total population of India. Population density of Punjab is 550 persons per sq.km. The Population of Punjab according to the 2011 census stands at about 27 million, making it the 15th most populated state in India.

The state is spread over an area of about 50,362 sq. km. making it the 19th largest state in the country in terms of area. The state has a growth rate of about 13%, which is below the national average of 17%. The population of the state is rising considerably due to rapid efforts towards development and progress. The literacy rate in the state is about 76.7% a figure that has improved tremendously in the last few years due to the consistent efforts of the government. The sex ratio in Punjab leaves a lot to be desired as it lags behind the national average by a lot of points. The Punjab state profile is presented in Table 1 (Reference: Government of Punjab Website) ²

Table 1: Punjab State population, Literary and area in Sq meters

Sr.No.	Characteristics	Unit	Value
1.	Area	Sq. Km	50362
	(i) Rural-Area		48265
	(ii) Urban Area		2097
2.	Tehsils	Number	81
3.	Total Population (Census 2011)	Lakh	277.04
	(i) Urban population (%)		103.8 (37.5 %)
	(ii) Rural population (%)		173.2 (62.5 %)
4.	Density	per sq. km	550
5.	Female per 1000 Male	Number	893
6.	Literacy rate	%	76.7

2. Sangrur District Profile

The district of Sangrur takes its name from its headquarters town, Sangrur. It is said to have been founded by one Sanghu, a Jat, about four hundred years back. It is bounded by Ludhiana district in the north, by Barnala district in the west, by Patiala district in the east and by Fatehbad district (State Haryana) in the south.

According to 2011 Census of India Sangrur district ranks 7th in Punjab with a population of 16,54,408 which is 6% of the total population 2,77,04,236 (Provisional) of Punjab State³.

The Sangrur district health blocks and number of villages are presented in Table 2. The location of Sangrur district is presented in Figure 1.



Figure 1: Location of Population Based Cancer Registry Sangrur District, Punjab

Table 2: Health Blocks under Sangrur District

Health Block	Number of villages
Sherpur	69
Kauhrian	86
Moonak	91
Longowal	66
Amargarh	106
Bhawanigarh	68
Fatehgarh Panj Garian	99
Total	585

Health Infrastructure of Sangrur District

Sangrur district is having one district hospital, three sub district hospitals with basic diagnostic and surgical facilities. The district is having 4 rural hospitals, 7 block primary health centers and 28 mini primary health centers and more than 190 sub centers. The primary health care is taken by these hospitals. The Sangrur district hospital provides supportive services to the cancer cases. The detail information about the hospital and PHC is presented in Table 3.

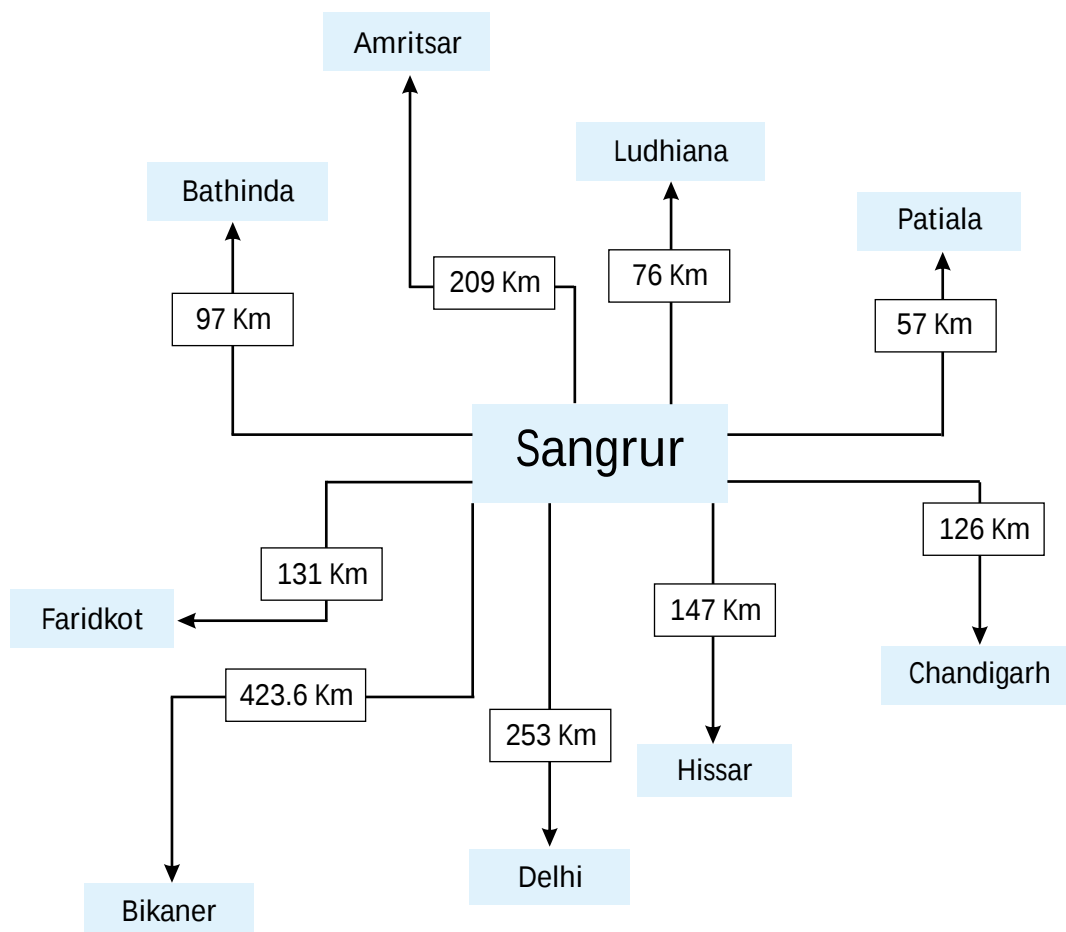
Table 3: Major Health Facilities in Sangrur District

Sr. No.	Institute	Number
1.	District Hospital (DH)	1
2.	Sub District Hospital (SDH)	3
3.	Community Health Centre	6
4.	Block Primary Health Centre (PHC)	7
5.	Mini Primary Health Centre (MPHC)	28
6.	Rural Hospital (RH)	4
7.	Subsidiary Health Centre (SHC)	68
8.	Sub Centre (SC)	196
Total		313

The cancer treatment facility is not available in the district. For the cancer treatment, patient from these area travels to Patiala, Bathinda, Faridkot, Ludhiana, Chandigarh, and New Delhi and also to Bikaner, Rajasthan state. The nearest centre is Patiala (57 KMs) and farthest is Bikaner (420 kms). The distance from Sangrur to different cancer treatment centres is shown in Figure 2.

Tata Memorial Centre Mumbai – an autonomous unit of Department of Atomic Energy, Government of India with the support of Government of Punjab has started the Homi Bhabha Cancer Hospital in Sangrur district (HBCH). The hospital has started functioning from January 2015. The HBCH is having surgical, radiotherapy and medical oncology facilities. Till today more than 1000 cancer patients were treated. The hospital is listed in the Government Sponsor scheme “Mukhyamantri Punjab Cancer RahatKosh Scheme” for cancer treatment.

Figure 2: Distance from the Sangrur to the Treatment Centre



3. Administrative order by the State Government For The Cancer Registration Process

The Government of Punjab – State Programme Office – Cancer Control Cell has issued the administrative order to all the hospitals in the state which are empaneled under Mukhmantri Punjab Cancer Rahat Kosh Scheme to provide the data of the cancer patient to the population based cancer registries from Mansa, Sangrur and S.A.S. Nagar. Due to administrative support from the Government of Punjab we have very good co-operation from the government institute.

	
NATIONAL PROGRAMME FOR PREVENTION AND CONTROL OF CANCER, DIABETES, CARDIOVASCULAR DISEASES & STROKE Directorate of Health & Family Welfare Room No 502 , 4 th Floor, Sector 34 A , Chandigarh 0172-2605600	
No. NPCDCS/Pb/2013/ To	Dated:-11-03-2013
1. Civil Surgeons Mohali ,Sangrur and Mansa. 2. All empanelled Hospitals underMukhMantri Punjab Cancer RahatKosh scheme.	
Subject :- Population Based Cancer Registries (PBCR) – An initiative by Punjab Government in collaboration with Tata Memorial Centre , Mumbai and PGIMER , Chandigarh.	
Population Based Cancer Registry in Urban and Rural areas in Chandigarh , Mohali and Sangrur , Mansa , urban and rural areas respectively, has already started since 1st Jan 2013 . These registries will provide annual Cancer incidence , Mortality and trends of Cancer in Punjab. For the above said purpose , the teams will be visiting various institutions , Public and Private , in your area . As per the orders of Worthy PSHFW , Punjab , you are directed to co-operate and co-ordinate with them in every possible way to make this initiative taken by Punjab Government , a success.	
 State Programme Officer Cancer Control Cell	
No. NPCDCS/Pb/2013/	Dated:-11-03-2013
A copy of above is forwarded to:-	
1. PA to PSHFW , for information of Worthy PSHFW , Punjab please. 2. PA to DHS , for information of Worthy DHS , Punjab please. 3. Civil Surgeon Mohali , Snagrur and Mansa for information and necessary action please. 4. All empanelled Hospitals (Public and Private) under Mukh Mantri Punjab Cancer Rahat Kosh.	

4. Population covered by the cancer registry

Sangrur district is divided into seven Health Blocks Moonak, Longwol, Bhawanigarh, Amargarh, Kauhrian, Sherpur and Fatehgarh Panj-Garian. As per 2011 census the total population of Sangrur district 1655169. Of the total population 1139204 (68.8%) is rural and 515965 (31.2%) is urban. Of the total population males are 53% and females are 47%.The population as per 2011 census is mentioned in Table 4.

Table 4: Sangrur district population as per census 2011

Area	No. of Households	Total	Male	Female
Rural	217864	1139204	604653	534551
Urban	101006	515965	273376	242589
Total	318870	1655169	878029	777140

Estimated population of Sangrur District - 2013

The registry population for 2013 was estimated by exponential growth rate using the growth rate for 2001 to 2011 census population. As per 2013, there are 902730 males and 798646 females. More than 65% population is rural and depends on agriculture related activities. The estimated population of 2013 is presented in Table 5. The population pyramid of Sangrur district is shown in figure 3.

Table 5: Estimated population of Sangrur District as on 1st July 2013

Age-group	Male	%	Female	%	Total
0_4	70257	7.8	59682	7.5	129939
5_9	79246	8.8	63813	8.0	143059
10_14	89897	10.0	69870	8.7	159767
15_19	98776	10.9	77633	9.7	176409
20_24	92722	10.3	81744	10.2	174466
25_29	77238	8.6	70988	8.9	148226
30_34	63650	7.1	60617	7.6	124267
35_39	59431	6.6	57698	7.2	117129
40_44	55661	6.2	54134	6.8	109795
45_49	50163	5.6	47045	5.9	97208
50_54	40840	4.5	35520	4.4	76360
55_59	28355	3.1	28151	3.5	56506
60_64	31853	3.5	33064	4.1	64917
65_69	24589	2.7	22245	2.8	46834
70_74	18580	2.1	15461	1.9	34041
75+	21471	2.4	20981	2.6	42452
Total	902729	100.0	798646	100.0	1701375

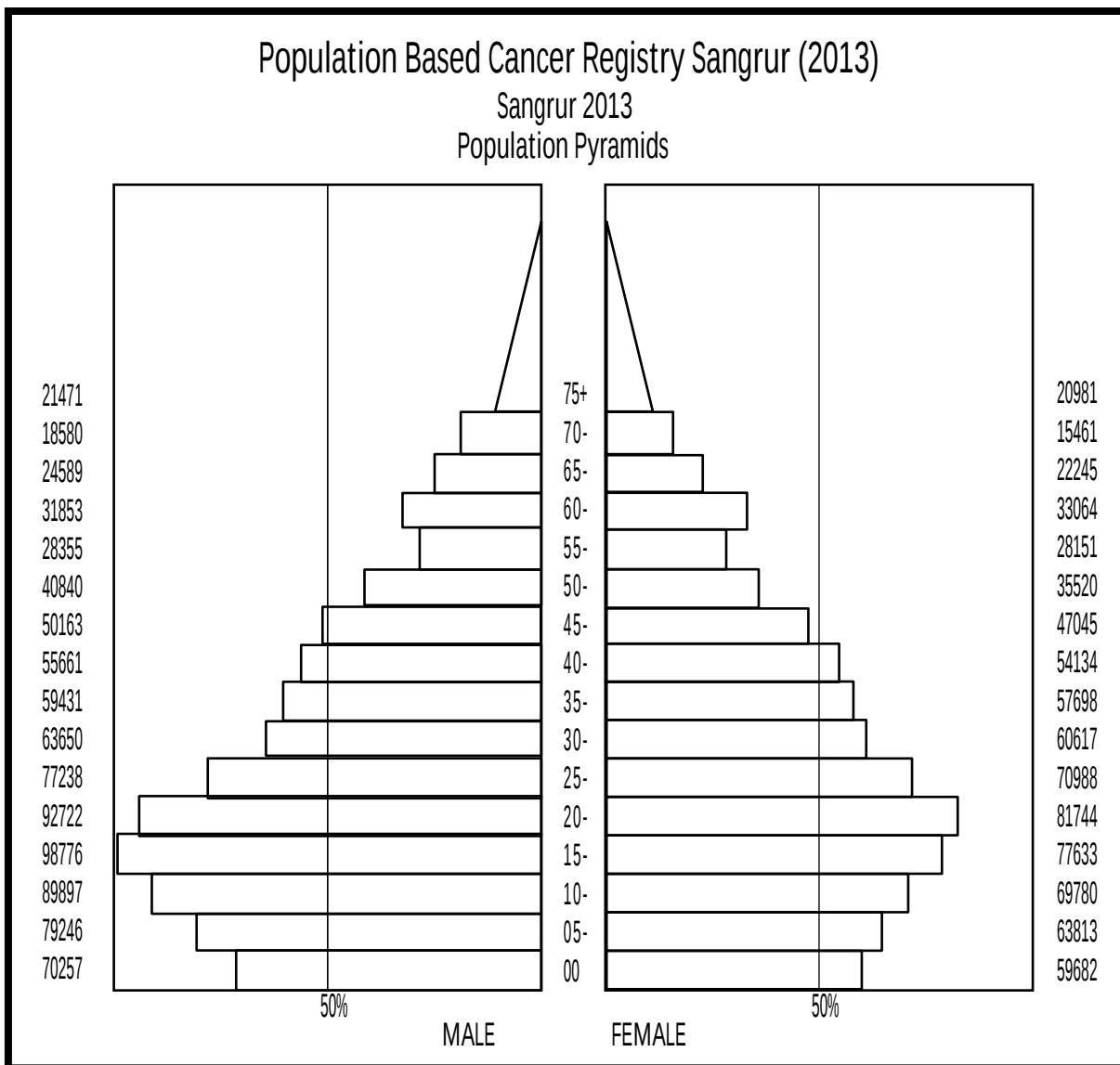


Figure 3: Population pyramid of Sangrur district as on 1st July 2013

5. Cancer Registration Method

Cancer Incidence Cases

Trained social worker and field staff of the registry visits the allotted villages periodically (in a period of 6 to 8 months) to identify the cancer cases diagnosed in the area as well as cancer deaths noted in the village administrative office. Field staff interacts with village sarpanch, Auxiliary Nurse Midwife (ANM), anganwadi workers, ASHA workers and from medical officer of the Primary Health Centre to get to know the cancer cases diagnosed in the village/ any cancer death occurred in the village. The social worker takes the detail information of the cancer case and visits the patient's house along with the ASHA workers. The field staff interacts with the patient/ patient's relative and asks the questions.

- When was the patient diagnosed as a cancer?
- Whether the patient is having the case file number of the treating hospital?
- Whether the patient does have any discharge report, biopsy report and CT Scan Report?

As per the information, the social workers note down the information available with the patient. As per the information provided by the patient/patients', relative, the field staff interacts with the treating cancer center and collects the clinical details and registered the cancer case in the prescribed proforma. If we do not get access to the medical records of the patient we register the cases based on the information provided by the patient's relative.

In the second visit, field staff update the status of the cancer cases. He also identify there, any new cancer case/death in the village and repeat the same procedure mentioned above. This is a continuous process during village visit

Cancer Death Cases

During the village visit social worker enquire about the cancer death happened in the village. They also collect death cases information from the village birth and death registrar office. As like the cancer incidence cases, the field staff interacts with the patient's relative and enquires about the deaths happened. Based on the information provided by the relatives and by matching with the medical records available in the cancer registry the cancer death has been registered.

Cancer Prevalence Cases

During the field visit field staff comes across the cases diagnosed before 2013. The field staff takes the detail information of the cancer case from the patient's relative and maintains the data in the registry office. In the second visit field staff update the status of the cancer cases. If there is any death of the prevalent case in that year, then after matching with the registry record the cancer death has been registered.

Data Checking

All the cases collected by field from the villages as well as from the hospital were scrutinized by the senior staff member. After residence confirmation the cancer case information has been documented in the prescribed format. The primary site and histology has been coded by International Classification of Diseases for Oncology – Third edition : WHO, Geneva 2000 (ICD-03⁷).

Data Entry

The data entry was carried out in the CanReg5 software developed by the International Agency for Research on Cancer, Lyon, France⁶.

After duplicate checking and other quality measures the cancer incidence and death cases has been registered.

The cancer registration process of the registry is presented in Figure 4.

Cancer Cases Data Collection from Different Hospitals, Nursing Centers

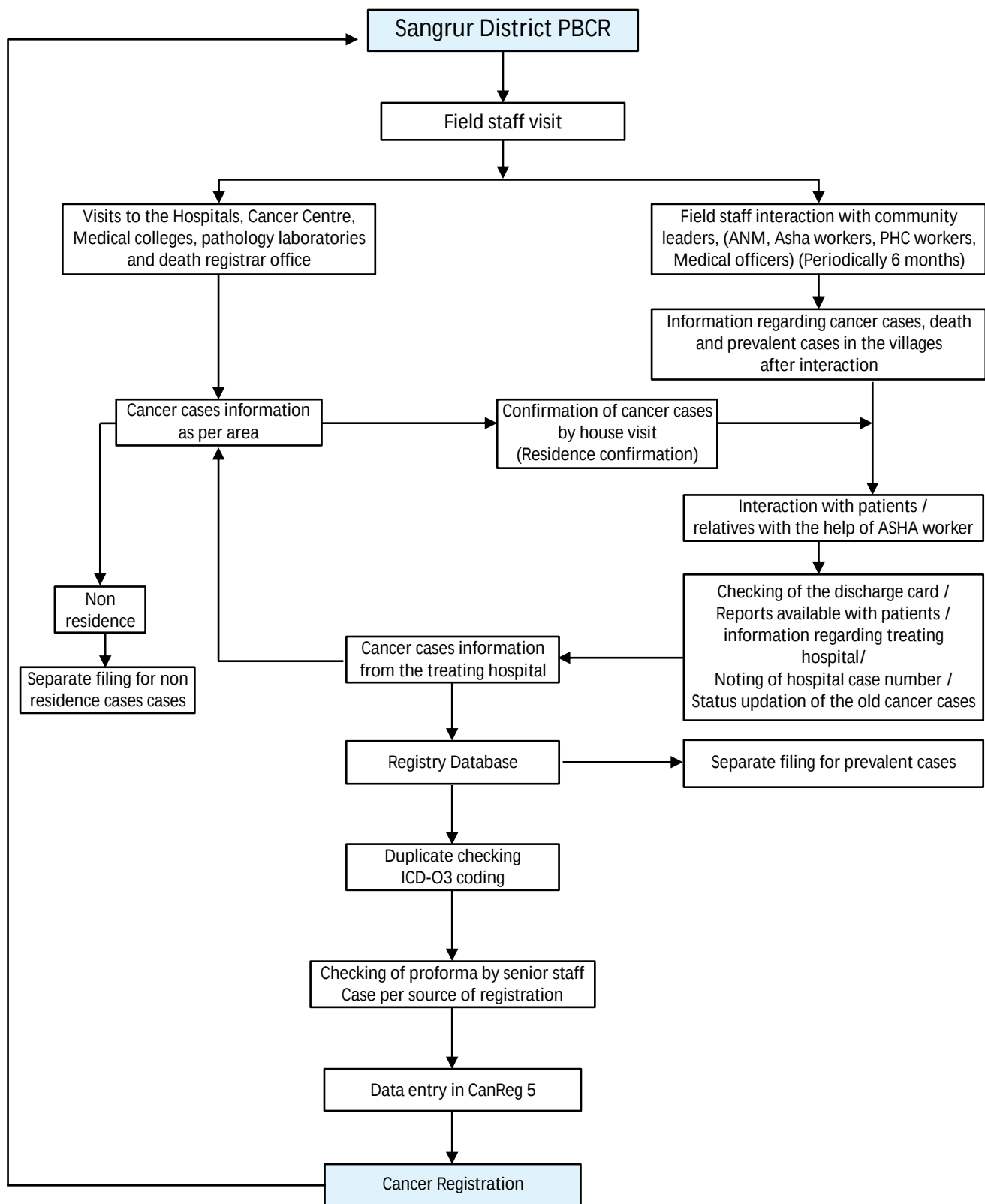
Registry staff regularly visits the following centers to collect the cancer cases / death cases information from the Sangrur district. The Chandigarh and SAS Nagar PBCR staff appointed by TMC who regularly visit all the hospitals from Chandigarh and SAS Nagar area to collect the cancer case data. They provide the cancer cases data to the cancer registry staff of Sangrur during their monthly meeting. The different sources of data collection are mentioned in Table 6.

Table 6: Different sources of data collection

Sr. No.	Institution Name	Place
1	Post Graduate Institute of Medical Education and Research / PBCR	Chandigarh
2	Civil Hospital	Sangrur
3	Civil Hospital	Malerkotla
4	Civil Hospital	Dhuri
5	Community Health Centre	Amargarh
6	Community Health Centre	Bhawanigarh
7	Community Health Centre	Kauhrian
8	Community Health Centre	Lehragaga
9	Community Health Centre	Longowal
10	Community Health Centre	Ahmedgarh
11	Primary Health Centre	Sherpur
12	Primary Health Centre	Moonak
13	Primary Health Centre	Fatehgarh Panjgarian
14	Births and Deaths Registrar	Sangrur
15	Births and Deaths Registrar	Dhuri
16	Births and Deaths Registrar	Ahmedgarh
17	Births and Deaths Registrar	Dirba
18	Births and Deaths Registrar	Cheema
19	Births and Deaths Registrar	Sunam
20	Births and Deaths Registrar	Amargarh
21	Births and Deaths Registrar	Malerkotla
22	Births and Deaths Registrar	Bhawanigarh
23	Births and Deaths Registrar	Khanauri
24	Births and Deaths Registrar	Lehragaga
25	Births and Deaths Registrar	Moonak
26	Births and Deaths Registrar	Dirba
27	Mohan Dai Oswal Cancer Hospital	Ludhiana
28	Government Medical College/Rajindra Hospital	Patiala
29	Poonam Lab	Sangrur
30	Guru Gobind Singh Medical College & Hospital	Faridkot
31	Sodhi Scan Centre Hospital	Sangrur
32	Dyanand Medical College & Hospital	Ludhiana
33	Christian Medical College & Hospital,	Ludhiana
34	Acharaya Tulsi Regional Cancer Treatment Centre & Research Institute	Bikaner
35	Cancer Cell	Sangrur

Sr. No.	Institution Name	Place
36	Max Super Speciality Hospital	Bathinda
37	Government Medical College and Hospital, Sec-32	Chandigarh
38	Government Multi Speciality Hospital, Sec-16	Chandigarh
39	Grecian Super Speciality Hospital	Mohali
40	Fortis Hospital	Mohali
41	Indus Hospital	Mohali
42	IVY Hospital	Mohali
43	Max Hospital	Mohali
44	Behgal Hospital	Mohali
45	Gian Sagar Medical College and Hospital	Banur
46	Harbans Ultrasound and CT Scan Centre	Sangrur
47	Jyoti Ultrasound	Sunam
48	Hazrat Haleema Hospital	Malerkotla
49	Pandit Bhagwat Dayal Sharma, PGIMS	Rohtak
50	Fortis Hospital	Ludhiana
51	Satgur Partap Singh Apollo Hospital	Ludhiana

Figure 4 : Cancer Registration Method



6. Community Involvement in the Cancer Registration Process

The cancer patient from this area travels from 60 kms to 420 kms for the cancer treatment. It is practically difficult for the registry staff to visit these entire centers regularly. The Punjab Government has conducted door to door campaign and household survey to know the prevalence of cancer in each district of the state¹¹. Due to these programme, the community leaders are aware about the importance of the disease and cancer registration process. The primary health centre staff, ASHA workers and Anganwadi workers provide their co-operation in giving the information of the newly diagnosed cancer / cancer deaths occurred in the village. The trained field staff from the registry continuously interacts with these community members to get to know the cancer cases information in the villages.

Due to community interaction we are 100% sure about the residence confirmation of the cancer cases. Due to interaction with the patient/patients' relatives they provide the demographic information such as education, income and religion etc. Due to regularly village visit and interaction with community we update the status of cancer patient which will be utilized for the cancer survival analysis. In the initial period, two major cancer centers refused to provide the cancer cases data. In that situation, due to field visit and interaction with community leaders we are able to get the information of the cancer cases from the village after contacting patients / their relatives. Registry staff visited more than 1900 community members from 585 villages.

Registry staff interacted with community leaders and Primary Health Centre staff to know the information of the cancer cases diagnosed. The detail of the same by block is presented in Table 7.

Table 7: Community Leaders/Primary Health Centre Staff involved in the Cancer Registration Process

Block Name	Total No. of Villages	Sarpanch/ Panch	SMO	MO	B.E.E	ANM	ASHA	Anganwadi workers	MPHW	Other	Total
Sherpur	69	45	1	4	1	37	118	35	7	9	257
Kauhrian	86	61	1	6	1	51	172	14	9	6	321
Moonak	91	59	1	2	1	54	142	54	3	17	333
Longowal	66	39	0	3	1	35	78	2	20	7	185
Amargarh	106	54	1	1	1	34	108	31	6	27	263
Bhawanigarh	68	48	1	5	1	22	78	61	5	21	242
Fatehgarh Panjgarian	99	33	1	1	1	37	64	152	6	13	308
Total	585	339	6	22	7	270	760	349	56	100	1909

SMO – Senior Medical Officer, MO – Medical Officer, BEE : Block Extententure Educator

MPHW : Multipurpose Health Worker ANM : Auxiliary Nurse Midwife ASHA : Accredited Social Health Activist

7. Quality Control

Mortality to Incidence Ratio

The mortality-incidence or MI ratio is an indicator of the completeness and accuracy of cancer registry data. In the year 2013, 798 incident cancer cases (male-378 and female-420) have been registered by PBCR Sangrur. For the same period, 448 cancer deaths have been registered (243 male and 205 female). The overall mortality to incidence ratio is 56.1% (male-64.3% and female-48.8%) which is good and comparable to other established rural PBCRs in India⁴.

Reabstraction of the Cases

We have registered 554 cases until December 31st, 2013. Quality control exercise was carried out for the improvement of the records and as well as for the capacity building of the staff. An independent medical doctor from PGIMER, Chandigarh has selected 55 cases (randomly 10% of the total cases) for re-abstraction. The overall agreement level was found to be 94.2%. The agreement level for demographic details i.e. name, age, sex and address was found to be 99.1% whereas that for tumour details i.e date of diagnosis, primary site, histology and behavior was found to be 93.6%. During the quality control exercise, it was observed that the staff required retraining in abstraction of cases of unknown primary sites, metastatic cases and lymphoma-leukemia cases. Based on this finding the staff was retrained at TMC / PGIMER Chandigarh. The error observed was corrected and data was modified.

Incidence Rates of Childhood Cancers

In the year 2013, we have registered 5 cases in boys and 6 girls cases. The Age specific rates reported for the paediatric cancer is very low. We may have missed the paediatric cancer cases. The age specific incidence rate by sex is mentioned below in table 8.

Table 8 : Incidence Rate of Paediatric Cancer Cases In Sangrur District: 2013

Age group	Boys		Girls	
	Number of cases	Age Specific Rate	Number of cases	Age Specific Rate
0-4	1	1.4	2	3.4
5-9	3	3.8	1	1.6

Microscopic Verification of the Cases

In the year 2013, out of 378 males cases we have 280 cases (74%) were diagnosed on microscopic verification. 13.5% cases were diagnosed on the basis of radiological findings. Most of the other and unspecified cases were diagnosed on the radiology (eg. Lymph Node, Primary site unknown cases). In females, out of 420 cases we have 329 cases (78%) diagnosed on microscopic verification. Around 10% cases were diagnosed on radiological findings.

Death Certificate Only Cases (DCO)

We have registered 28 (7.4%) cases in males and 39 (9.3%) cases in females under DCO/Other category .The death cases have been registered based on the narration /relative remarks/ discharge summary available with the patient's relative. In principle they are not registered based on death certificate only. As the death certificate does not have the information as a cancer death. This is the first year of the cancer registry; the DCO cases noted were less than 10%.

Per Source Case Registration

We have also seen the number of sources per incident case registered . The cases were counted as per source notification. In Sangrur, the average number of source per case registered is 1.7. The coverage of the sources by the registry is very good¹².

8. Cancer Cases Registered by Source of Registration – First Source of Information

The first information of the cancer cases diagnosed / cancer death is from the village visit due to interaction with the community. After documentation, these cases are further confirmed from the hospital records. More than 55% cases first source of information is from the village visit. The cancer incidence and death cases registered by source of registration are mentioned in Table 9 and Table 10.

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

Sr. No.	Source of registration	Male	%	Female	%	Total	%
1.	Village visit	212	56.1	227	54.0	439	55.0
2.	PGIMER Chandigarh	44	11.6	34	8.1	78	9.8
3.	Mohan Dai Oswal Hospital, Ludhiana	19	5.0	45	10.7	64	8.0
4.	Rajindra Hospital, Patiala	23	6.1	26	6.2	49	6.1
5.	Poonam Lab, Sangrur	7	1.9	22	5.2	29	3.6
6.	Guru Gobind Singh Medical College & Hospital, Faridkot	8	2.1	13	3.1	21	2.6
7.	Sodhi Scan Centre Hospital, Sangrur	7	1.9	10	2.4	17	2.1
8.	Death & Birth Registrar	10	2.6	5	1.2	15	1.9
9.	Dyanand Medical College & Hospital, Ludhiana	10	2.6	5	1.2	15	1.9
10.	Civil Hospital, Sangrur	9	2.4	6	1.4	15	1.9
11.	Acharaya Tulsi Regional Cancer Treatment Research Institute, Bikaner, Rajsthan	8	2.1	5	1.2	13	1.6
12.	Cancer Cell	4	1.1	2	0.5	6	0.8
13.	Max Hospital Bhatinda	3	0.8	2	0.5	5	0.6
14.	Government Medical College and Hospital, Chandigarh	2	0.5	3	0.7	5	0.6
15.	Gracian Super Speciality Hospital, SAS Nagar	3	0.8	1	0.2	4	0.5
16.	Fortis Hospital, SAS Nagar	2	0.5	1	0.2	3	0.4
17.	Indus Hospital, SAS Nagar	0	0.0	3	0.7	3	0.4
18.	IVY Hospital, SAS Nagar	2	0.5	1	0.2	3	0.4
19.	Max Hospital, SAS Nagar	1	0.3	2	0.5	3	0.4
20.	Other	4	1.1	7	1.7	11	1.4
Total		378	100.0	420	100.0	798	100.0

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

Sr. No.	Source of registration	Male	%	Female	%	Total	%
1.	Village visit	184	75.8	175	85.3	359	80.1
2.	Death & Birth Registrar	18	7.4	10	4.9	28	6.3
3.	PGIMER Chandigarh	11	4.5	0	0.0	11	2.5
4.	Civil hospital, Sangrur	3	1.2	4	2.0	7	1.6
5.	Max Hospital Bhatinda	4	1.6	3	1.5	7	1.6
6.	Dyanand Medical College & Hospital, Ludhiana	3	1.2	3	1.5	6	1.3
7.	Rajindra Hospital, Patiala	2	0.8	2	1.0	4	0.9
8.	Sodhi Scan Centre Hospital, Sangrur	1	0.4	2	1.0	3	0.7
9.	Government Medical College and Hospital, Chandigarh	2	0.8	0	0.0	2	0.4
10.	Guru Gobind Singh Medical College & Hospital, Faridkot	2	0.8	0	0.0	2	0.4
11.	Gracian Super Speciality Hospital, Mohali	0	0.0	1	0.5	1	0.2
12.	Sibia Health Care Hospital, Sangrur	0	0.0	1	0.5	1	0.2
13.	Acharaya Tulsi Regional Cancer Treatment Research Institute, Bikaner, Rajasthan	0	0.0	1	0.5	1	0.2
14.	Other	13	5.3	3	1.5	16	3.6
Total		243	100.0	205	100.0	448	100.0

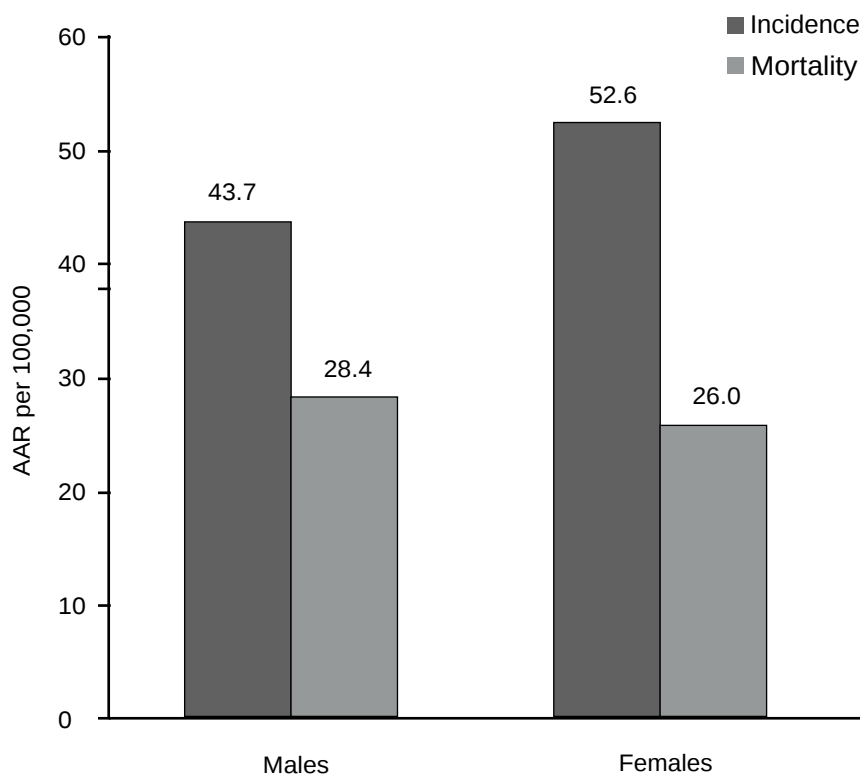
In the coming years due to good rapport with the hospitals, the first source of information from leading hospitals will improve.

9. Cancer Incidence and Mortality – All Sites

In the year 2013, the cancer registry has registered 798 cancer cases. In males, we have 378 cases and 420 female cases. The age adjusted incidence rate for males is 43.7 per 100000 and for females it is 52.6 per 100000 population.

In the year 2013, the cancer registry has registered 448 cancer deaths. In males, we have registered 243 deaths and in females 205 deaths. The age adjusted mortality rate for males is 28.4 per 100000 and for females it is 26.0 per 100000 population. The cancer incidence and mortality rates for all sites for males and females are presented in Figure 5.

Figure 5: All Sites Cancer Incidence and Mortality Rate by Sex



10. Leading Cancer Sites by Sex

In male, Oesophagus, Prostate, Brain, Liver, Lung, Tongue and Myeloid leukemia are the leading cancer sites. The top ten leading cancer sites rates are presented in figure 6. In females Breast, Cervix Uteri, Oesophagus, Ovary, Gall bladder, Liver and Brain are the leading cancer sites. The top ten 10 leading cancer sites are presented in figure 7.

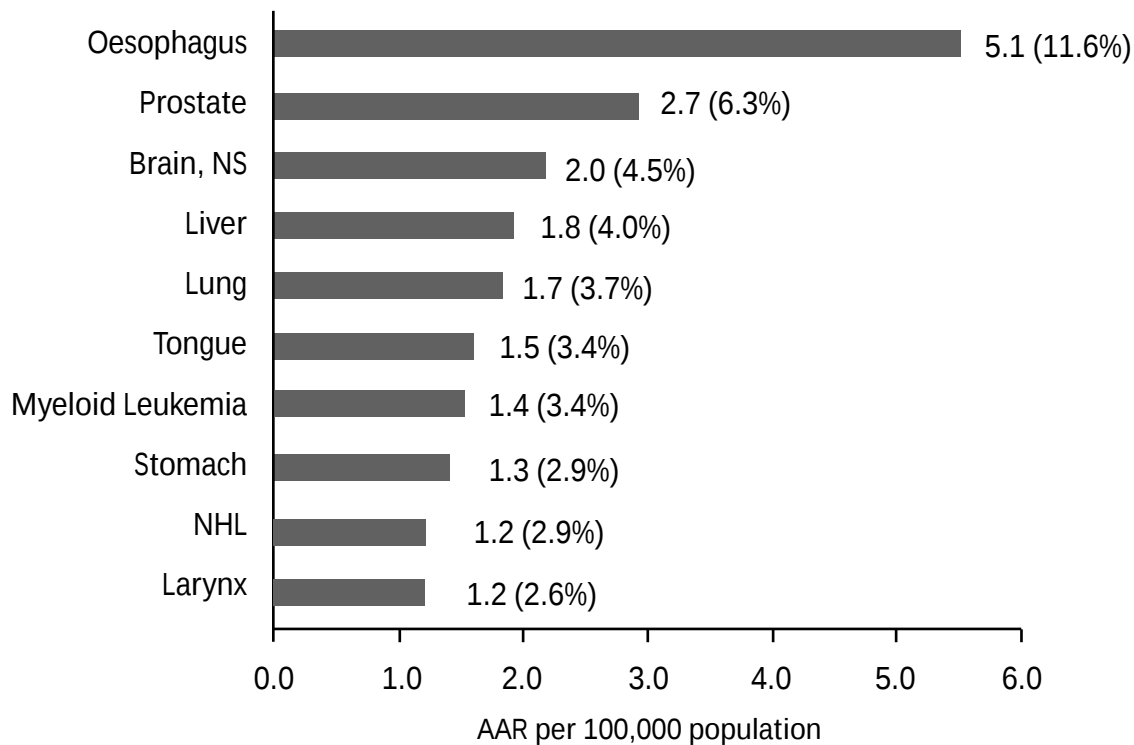


Figure 6: Leading Cancer Sites in Males (figures in Parenthesis Indicate the Percentage)

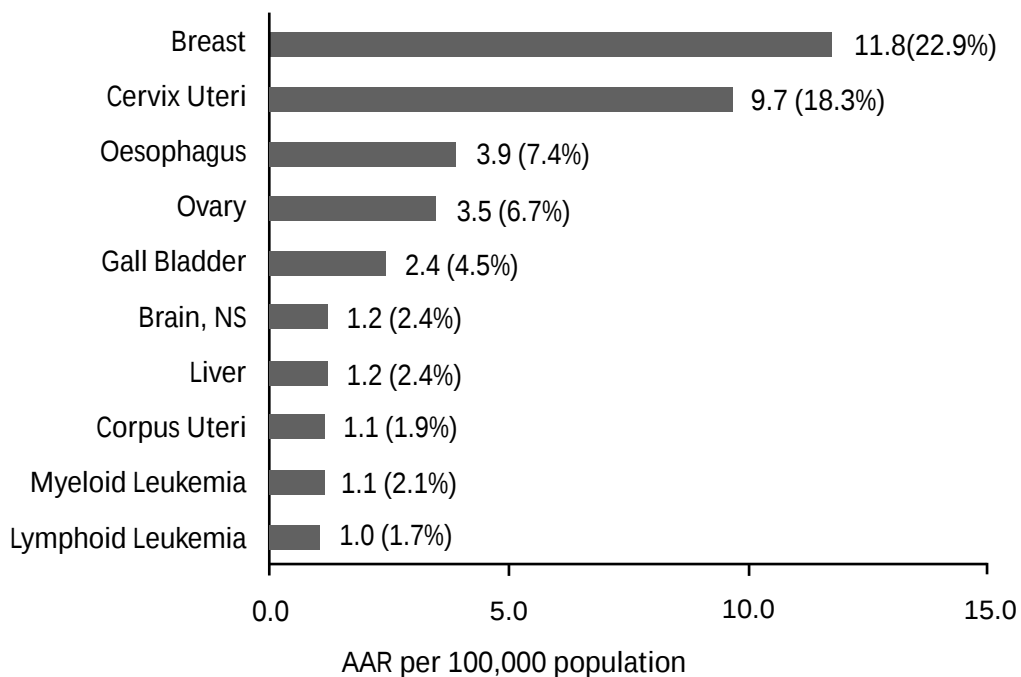


Figure 7: Leading Cancer Sites in Females (figures in Parenthesis Indicate the Percentage)

Cancer of Oesophagus (C15)

	Male	Female
Number of cases	44	31
% to total cases	11.6	7.4
Crude incidence rate per 100,000	4.9	3.9
Age adjusted incidence rate per 100,000	5.1	3.9
Truncated rate per 100,000	9.7	9.3

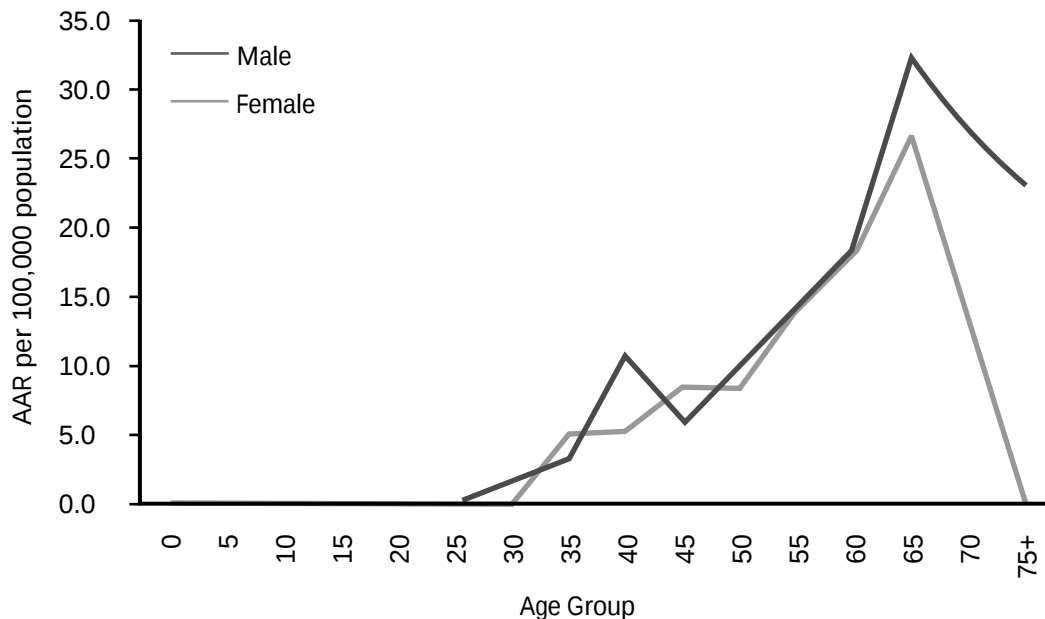


Figure 8: Age Specific Incidence Rate of Cancer Oesophagus (C15)

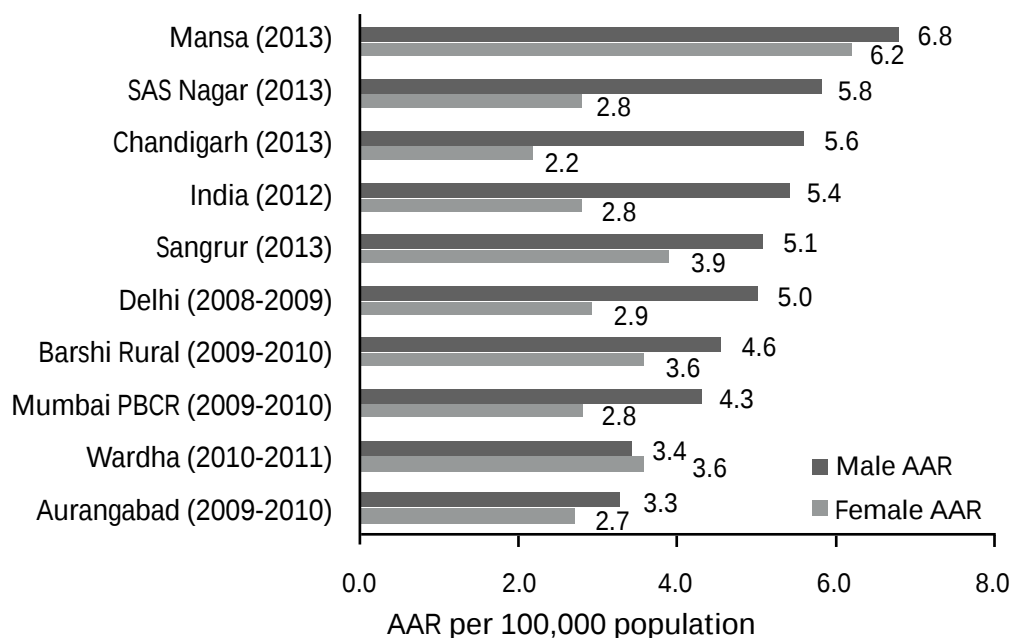


Figure 9: Comparison of Oesophagus Cancer Incidence Rate with other Indian Registries

Cancer of Prostate (C61)

Number of cases	24
% to total cases	6.3
Crude incidence rate per 100,000	2.7
Age adjusted incidence rate per 100,000	2.7
Truncated rate per 100,000	4.2

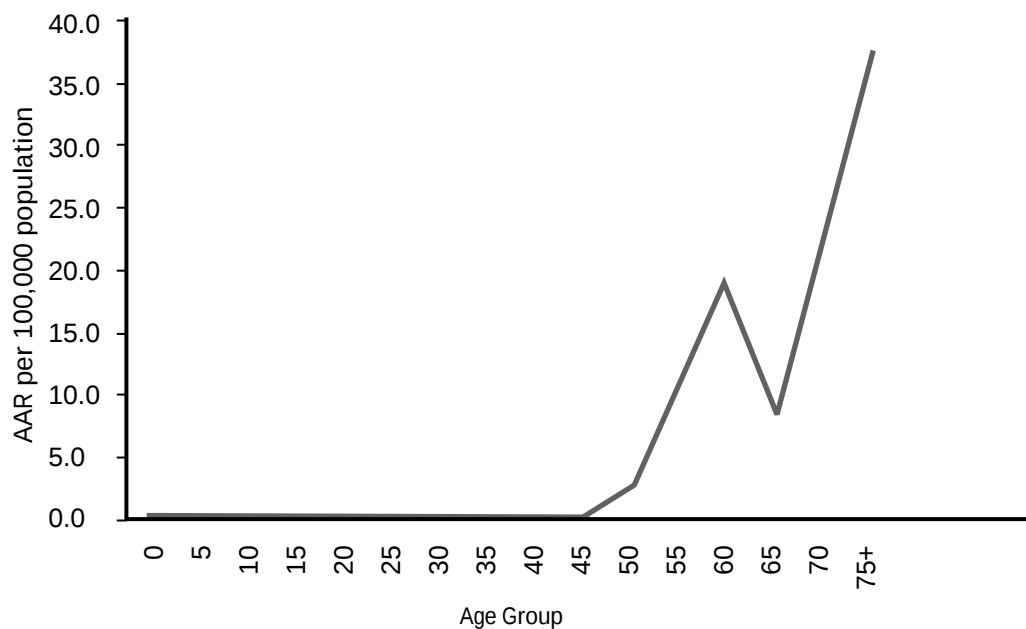


Figure 10: Age Specific Incidence Rate of Cancer Prostate (C61)

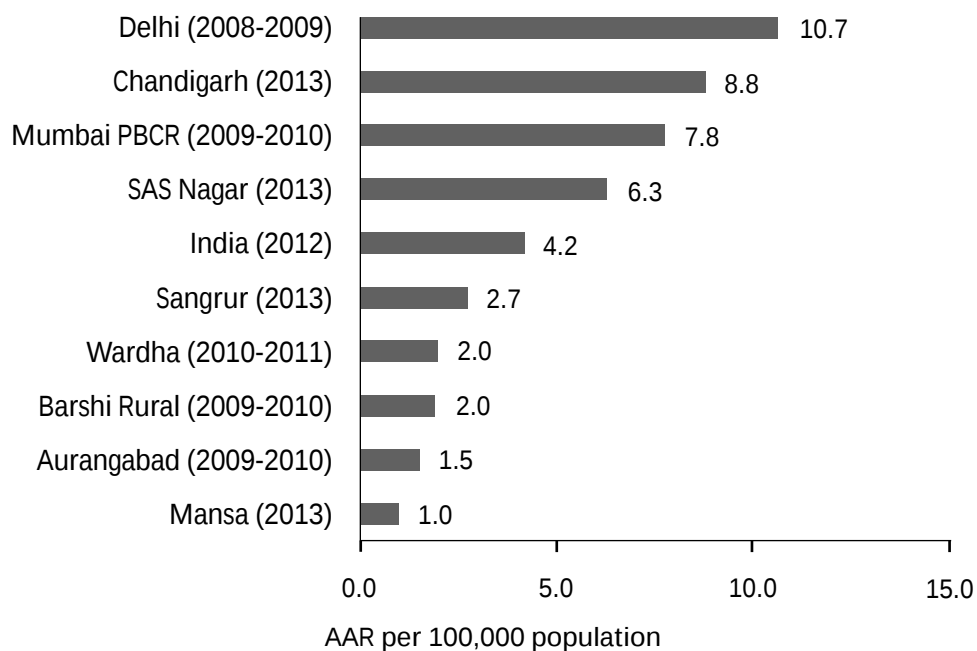


Figure 11: Comparison of Prostate Cancer Incidence Rate with other Indian Registries

Cancer of Brain, Nervous System (C70 –C72)

	Male	Female
Number of cases	17	10
% to total cases	4.5	2.4
Crude incidence rate per 100,000	1.9	1.3
Age adjusted incidence rate per 100,000	2.0	1.2
Truncated rate per 100,000	4.6	3.0

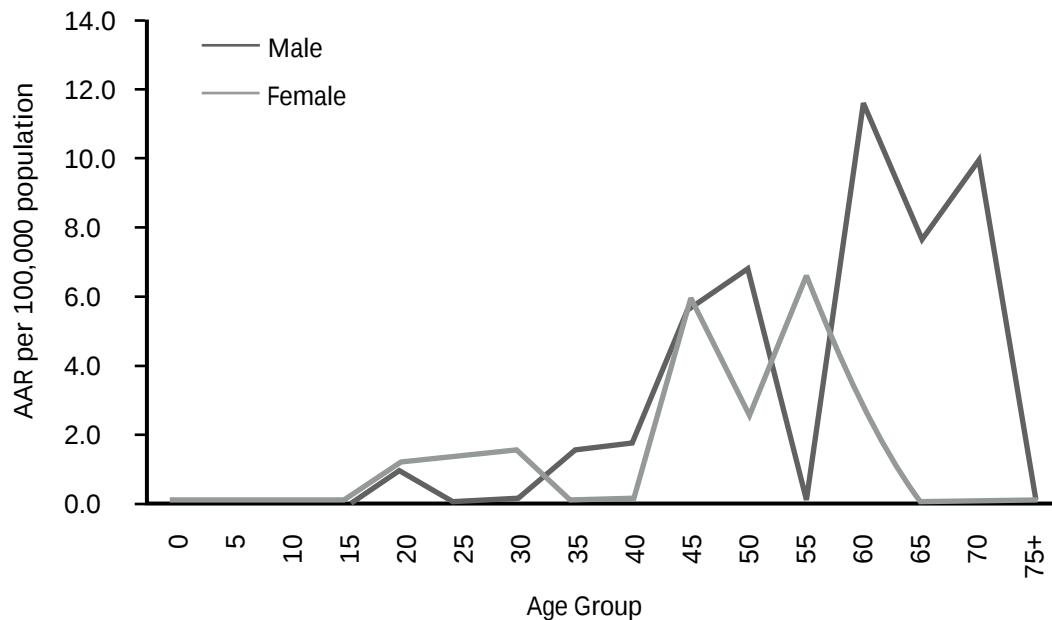


Figure 12: Age Specific Incidence Rate of Cancer Brain, Nervous System (C70 –C72)

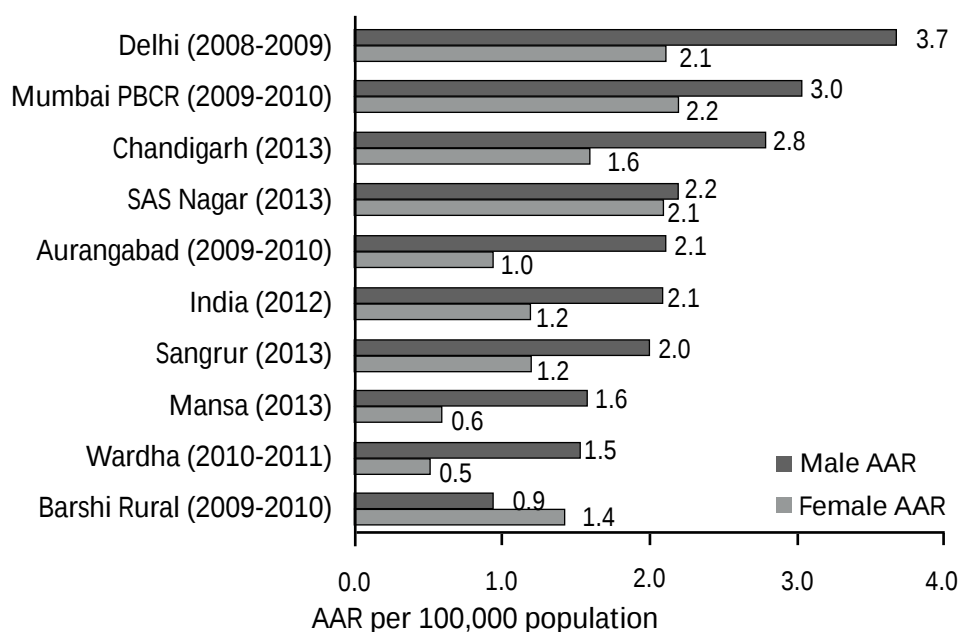


Figure 13: Comparison of Brain, Nervous System Cancer Incidence Rate with other Indian Registries

Cancer of Liver (C22)

	Male	Female
Number of cases	15	10
% to total cases	4.0	2.4
Crude incidence rate per 100,000	1.7	1.3
Age adjusted incidence rate per 100,000	1.8	1.2
Truncated rate per 100,000	4.5	2.9

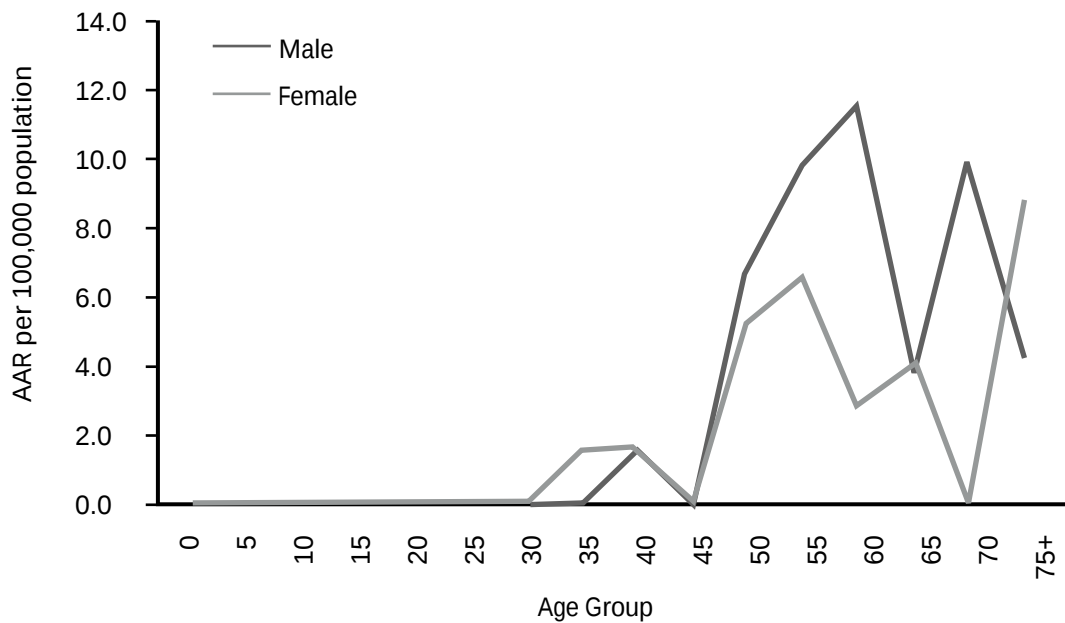


Figure 14: Age Specific Incidence Rate of Cancer Liver (C22)

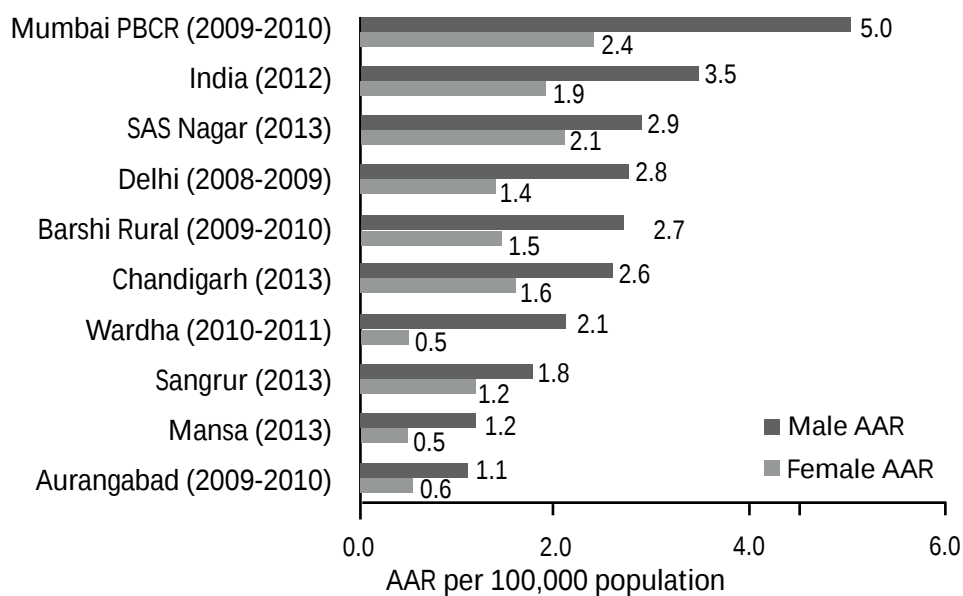


Figure 15: Comparison of Liver Cancer Incidence Rate with other Indian Registries

Cancer of Lung (C33 – C34)

	Male
Number of cases	14
% to total cases	3.7
Crude incidence rate per 100,000	1.6
Age adjusted incidence rate per 100,000	1.7
Truncated rate per 100,000	4.0

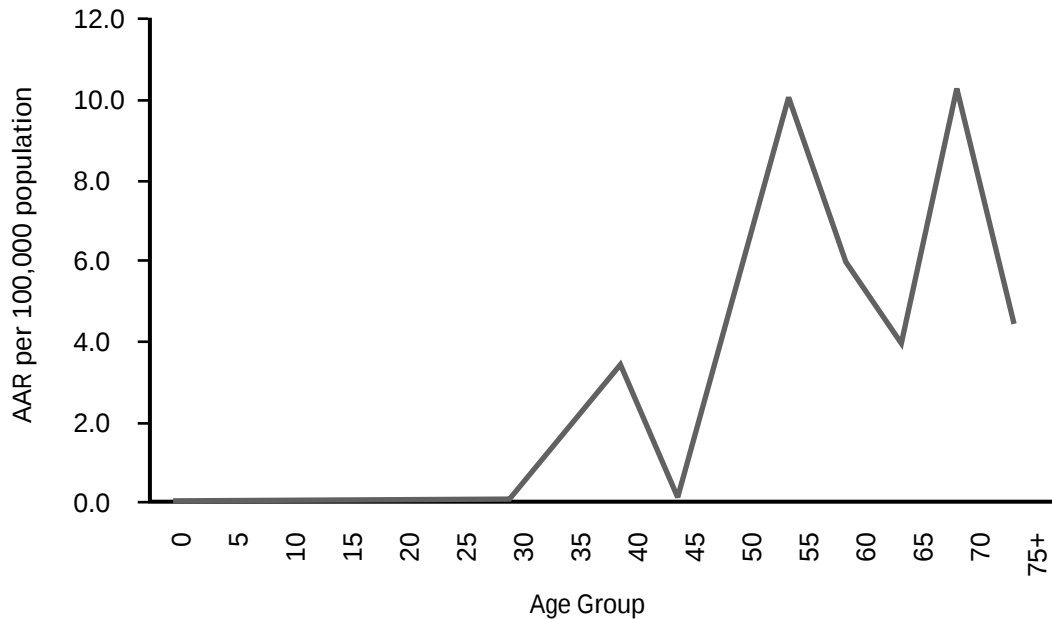


Figure 16: Age Specific Incidence Rate of Cancer Lung (C33 – C34)

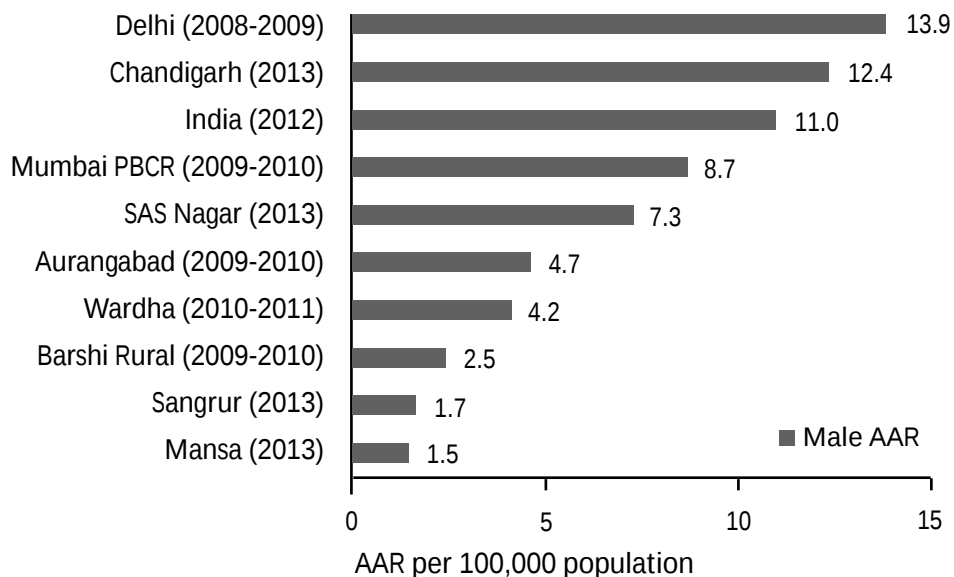


Figure 17: Comparison of Lung Cancer Incidence Rate with other Indian Registries

Cancer of Breast (C50)

Number of cases	96
% to total cases	22.9
Crude incidence rate per 100,000	12.0
Age adjusted incidence rate per 100,000	11.8
Truncated rate per 100,000	31.9

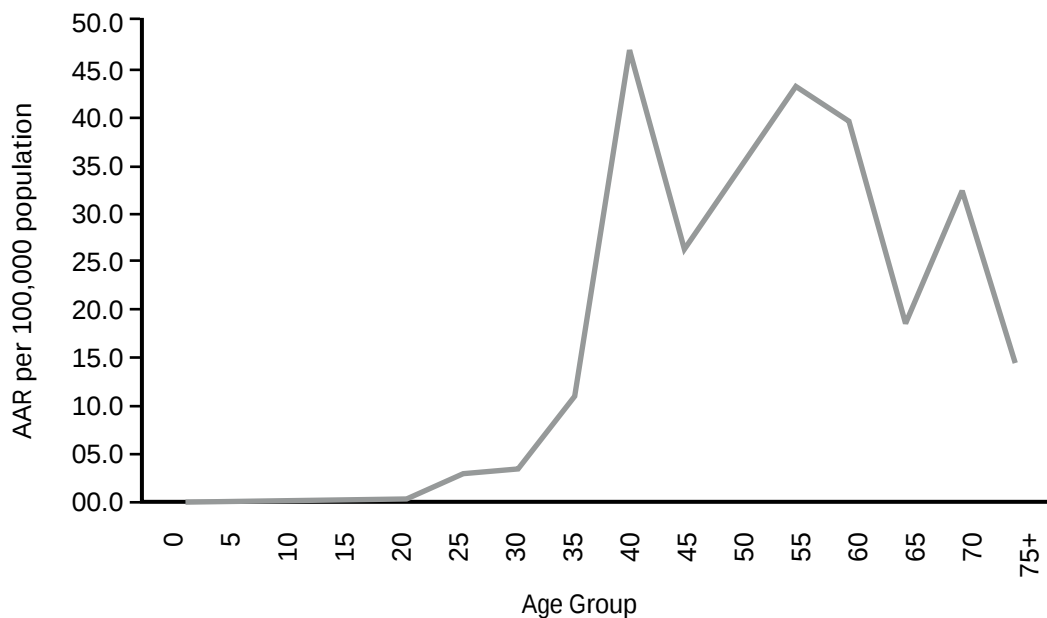


Figure 18: Age Specific Incidence Rate of Cancer Breast (C50)

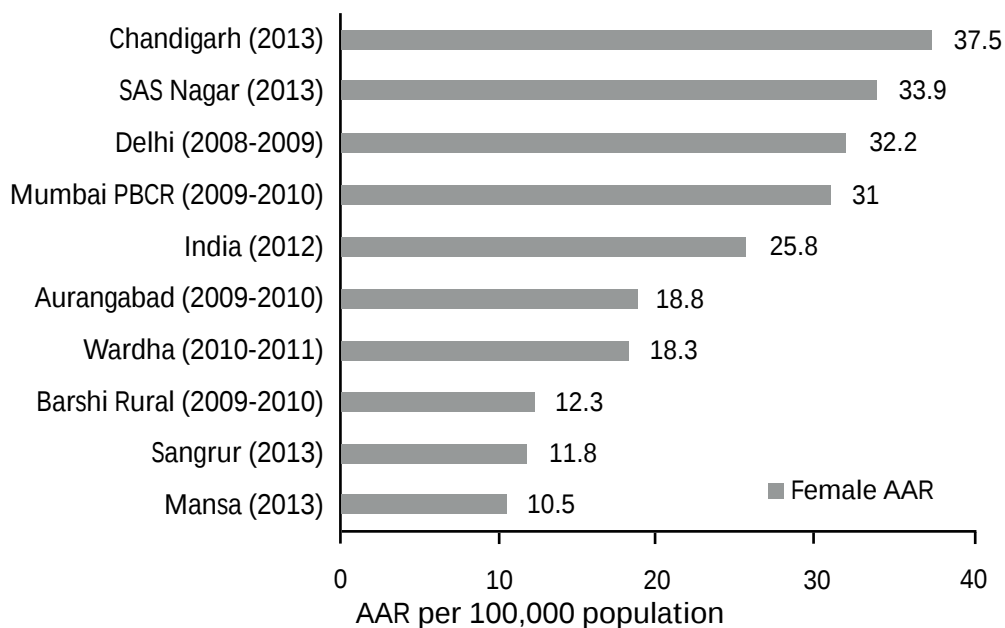


Figure 19: Comparison of Breast Cancer Incidence Rate with other Indian Registries

Cancer of Cervix Uteri (C53)

Number of cases	77
% to total cases	18.3
Crude incidence rate per 100,000	9.6
Age adjusted incidence rate per 100,000	9.7
Truncated rate per 100,000	24.9

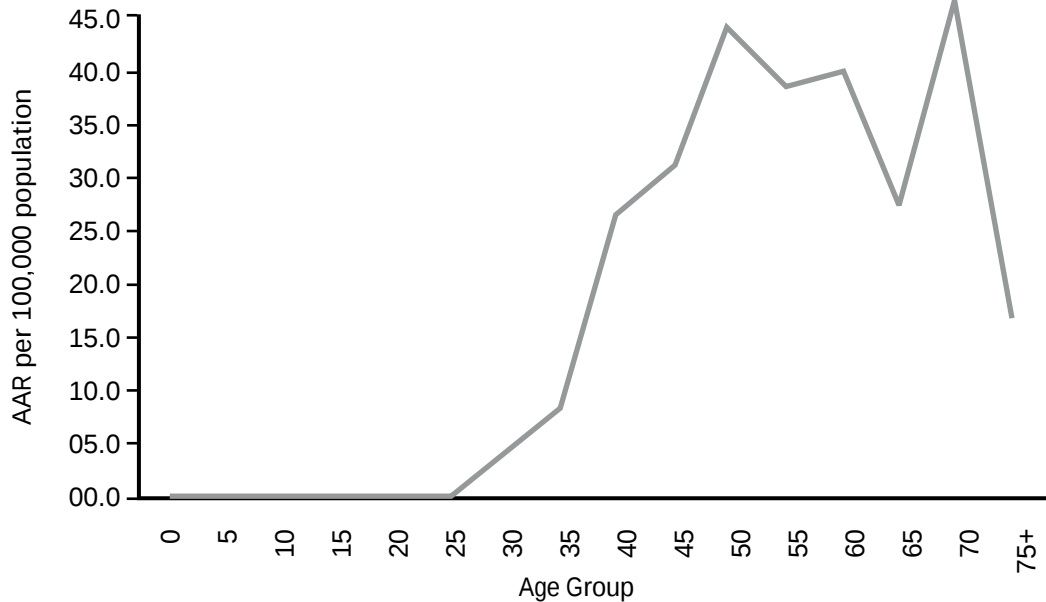


Figure 20: Age Specific Incidence Rate of Cancer Cervix Uteri (C53)

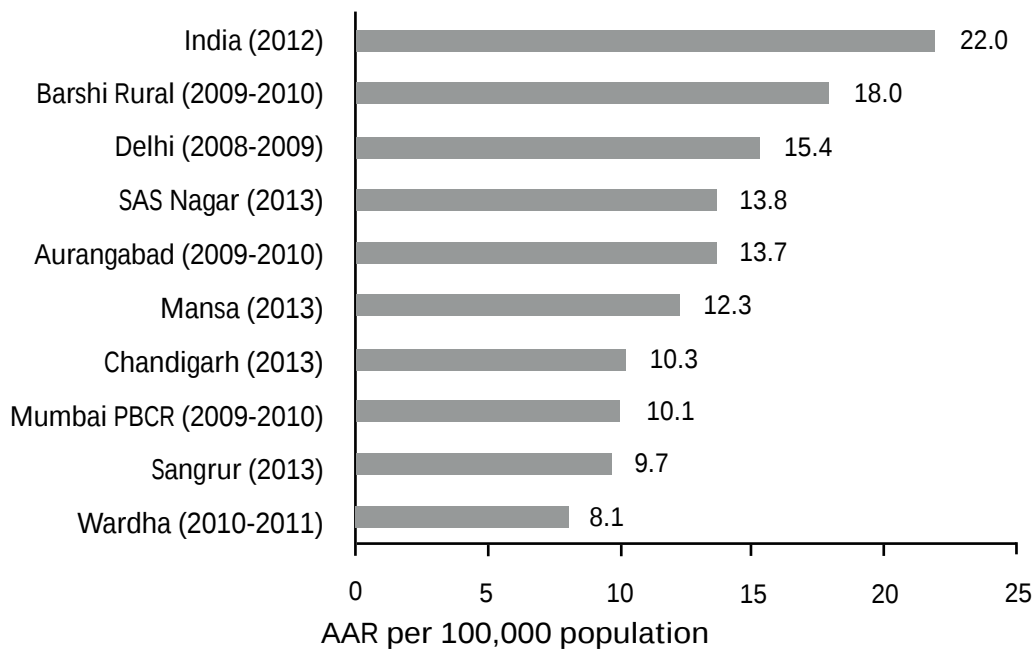


Figure 21: Comparison of Cervix Uteri Cancer Incidence Rate with other Indian Registries

Cancer of Ovary (C56)

Number of cases	28
% to total cases	6.7
Crude incidence rate per 100,000	3.5
Age adjusted incidence rate per 100,000	3.5
Truncated rate per 100,000	9.0

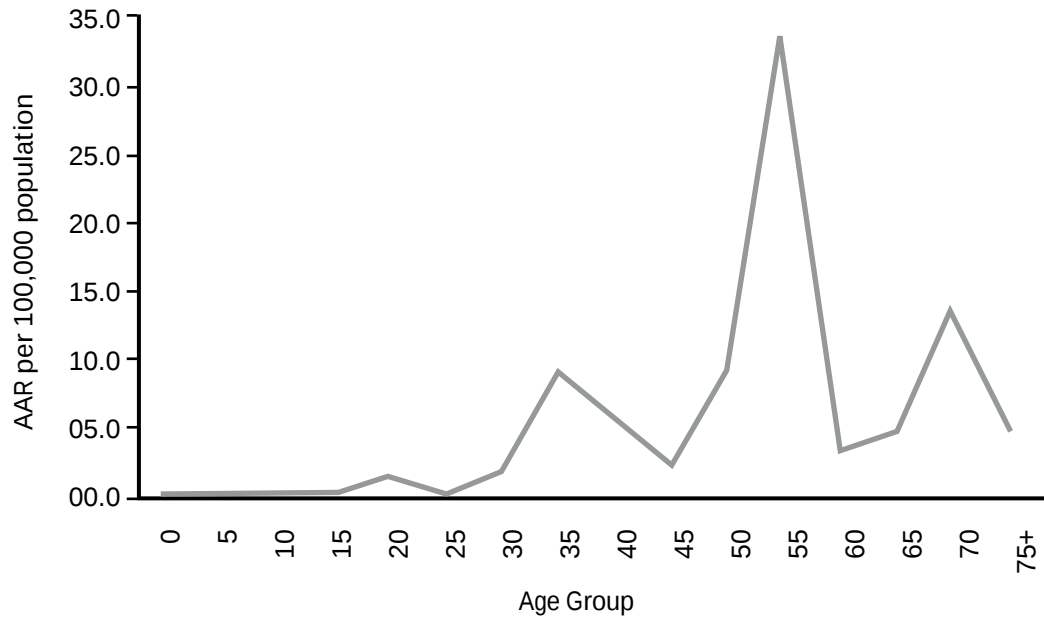


Figure 22: Age Specific Incidence Rate of Cancer Ovary (C56)

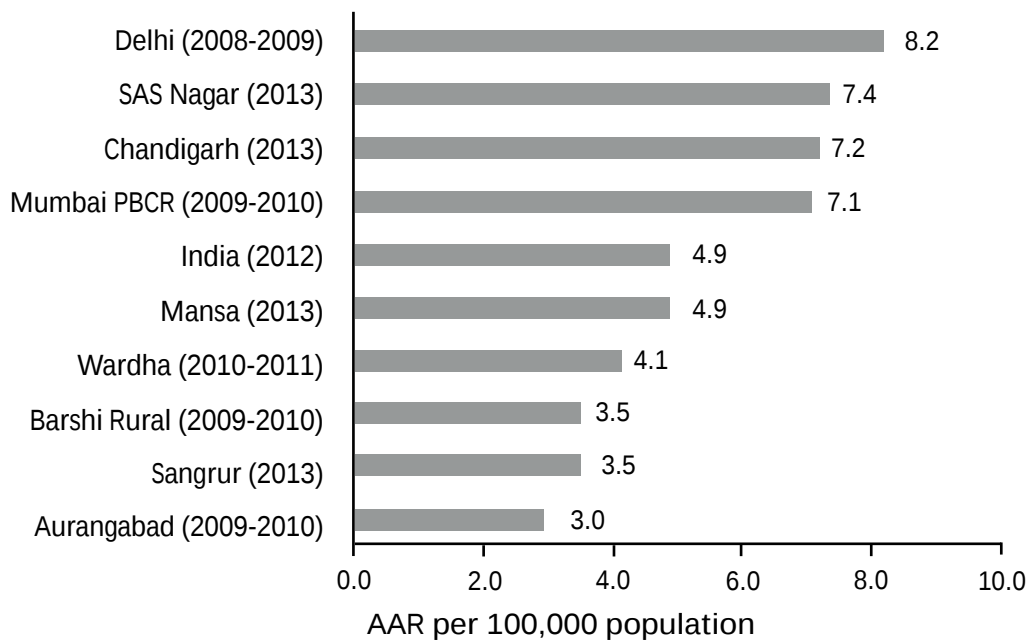


Figure 23: Comparison of Ovarian Cancer Incidence Rate with other Indian Registries

Cancer of Gall Bladder (C23 – C24)

	Male	Female
Number of cases	7	19
% to total cases	1.9	4.5
Crude incidence rate per 100,000	0.8	2.4
Age adjusted incidence rate per 100,000	0.8	2.4
Truncated rate per 100,000	1.6	6.1

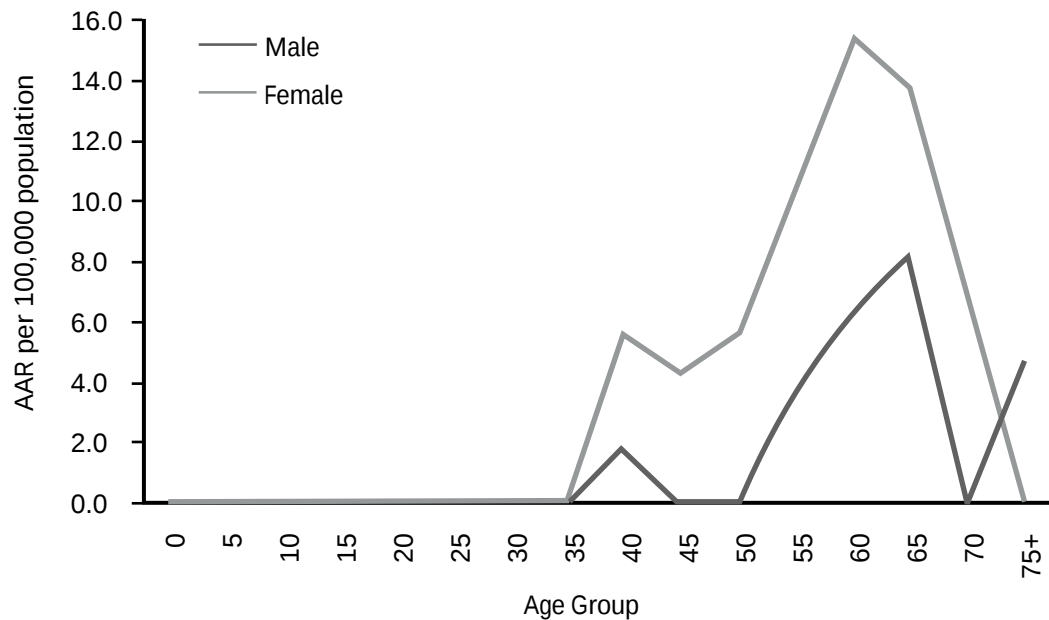


Figure 24: Age Specific Incidence Rate of Cancer Gall Bladder (C23 – C24)

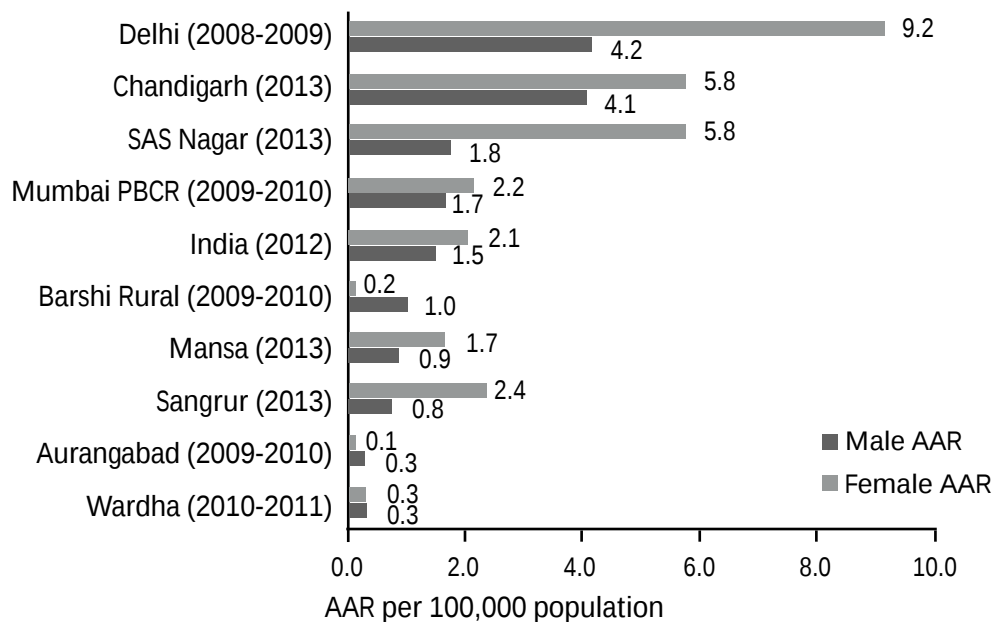


Figure 25: Comparison of Gall Bladder Cancer Incidence Rate with other Indian Registries

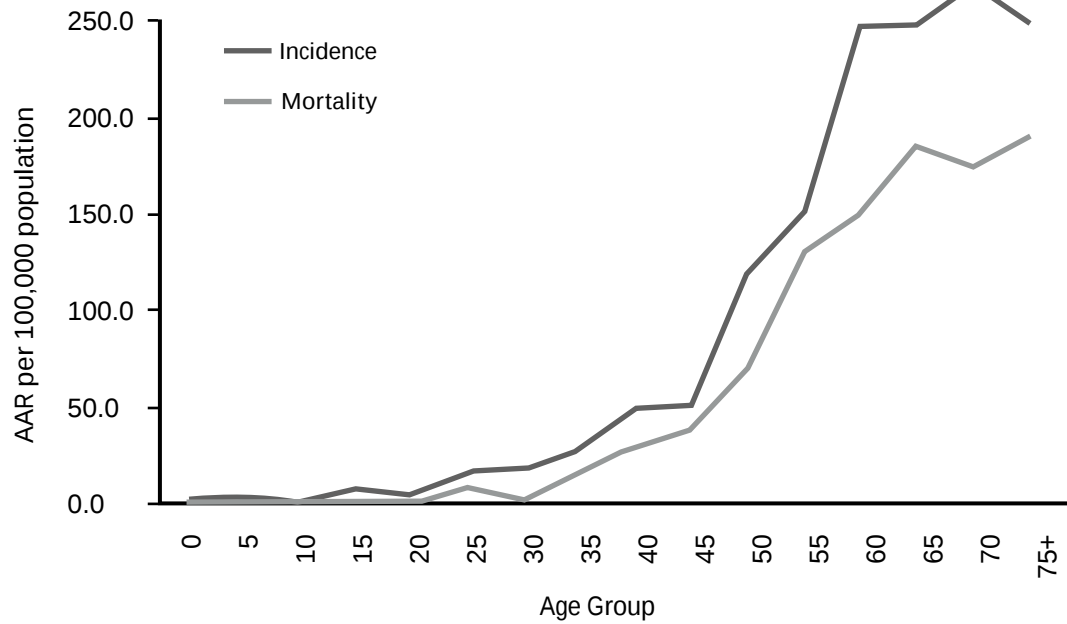


Figure 26: Age Specific Incidence and Mortality Rate – Male All Sites

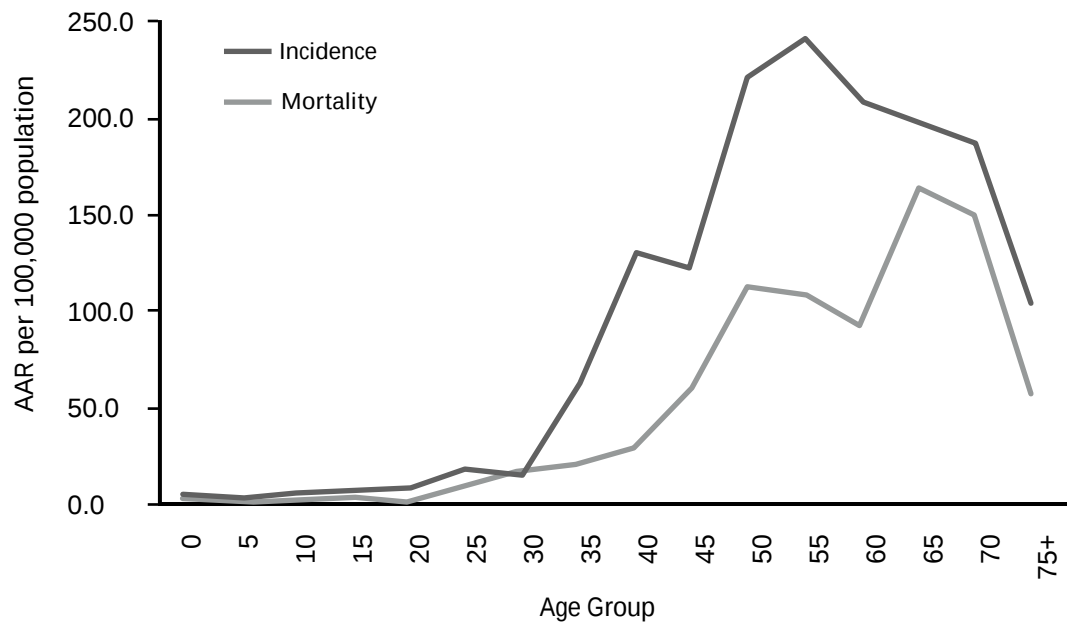


Figure 27: Age Specific Incidence and Mortality Rate – Female All Sites

Other and Unspecified Sites

The other and unspecified cancer sites are C26 – Other and ill defined digestive organ, C39- Other and ill defined sites within respiratory systems and interthoracic organ, C48- Retro peritoneum and peritoneum, C75- Other endocrine glands and related structures, C76 Other and ill-defined, secondary and unspecified sites, C77 – Secondary and unspecified malignant neoplasm of lymph node, C78 – secondary malignant neoplasm of respiratory and digestive organs, C79 – Secondary malignant neoplasm of other and unspecified sites, C80 – Malignant neoplasm without specification of site and C97 – Malignant neoplasm of independent (Primary) multiple.

In male out of 378 cases, 78 cases are of other and unspecified sites. The predominant cases are C80 – Primary Unknown (13.2%) followed by C76 – Other and ill-defined, secondary and unspecified sites, C77 – Secondary and unspecified malignant neoplasm of lymph node (2.4 %) and other sites (2.7%). In Female out of 420 cases, 48 cases are of other and unspecified sites. The predominant cases are C80 – Primary unknown (6.4%) followed by C78 – secondary malignant neoplasm of respiratory and digestive organs (1.9%) and other sites (3.1% cases). The details are presented in Table 11.

The more primary site unknown cases are clearly related to the quality of diagnostic information as well the poor documentation of the medical records. In the year 2013- 2014, the Sangrur district does not have comprehensive cancer diagnostic and treatment facility. Most of the patient go to the urban centre when the disease reached at the advanced stage. We have gone through medical records, discharge reports available with the patients and most of the time it was mentioned as a lymph node, Lung metastatic, Liver Metastatic, bone metastatic. After the disease is reached to the metastatic stage most of the cases prefer to take the alternative medicine i.e. local desi treatment. To know the primary site the diagnostic work include extensive histopathology and modern imaging technology and which include huge cost burden on the patient. The more primary site unknown reflects the health infrastructure for cancer care available in the region.

The primary unknown is the indicator of the health infrastructure and this type of cases will be more in rural part of India where there is limitation of diagnostic and treatment facility. In the first year of the cancer registration it was expected that there will be more primary site unknown cases. However in the coming years due to improvement in the diagnostic and treatment facilities as there will be few primary site unknown cases.

Table 11: Other and Unspecified Cases by Sex

ICD	Male		Female	
	Number	%	Number	%
C48	1	0.3	0	0.0
C76	9	2.4	2	0.5
C77	9	2.4	5	1.2
C78	5	1.3	8	1.9
C79	4	1.1	6	1.4
C80	50	13.2	27	6.4
Total Cancer Cases	378	100.0	420	100.0

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

	Male	Female
Number of cases	78	48
% to total cases	20.6	11.4
Crude incidence rate per 100,000	8.6	6.0
Age adjusted incidence rate per 100,000	9.0	6.2
Truncated rate per 100,000	15.5	15.6

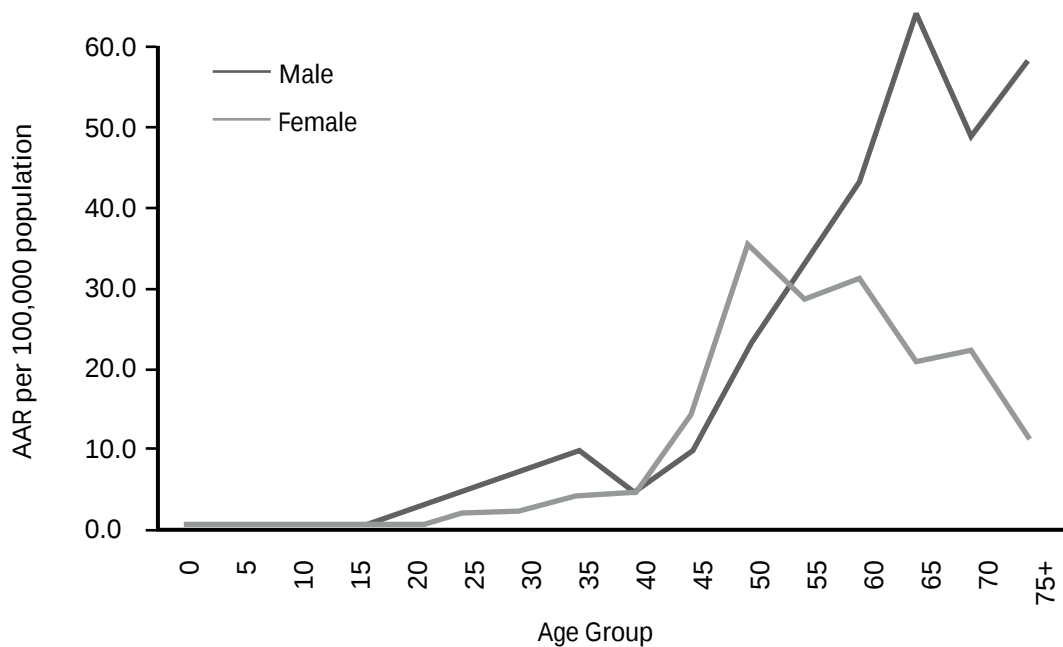


Figure 28: Age Specific Incidence Rate of Other and Unspecified Site

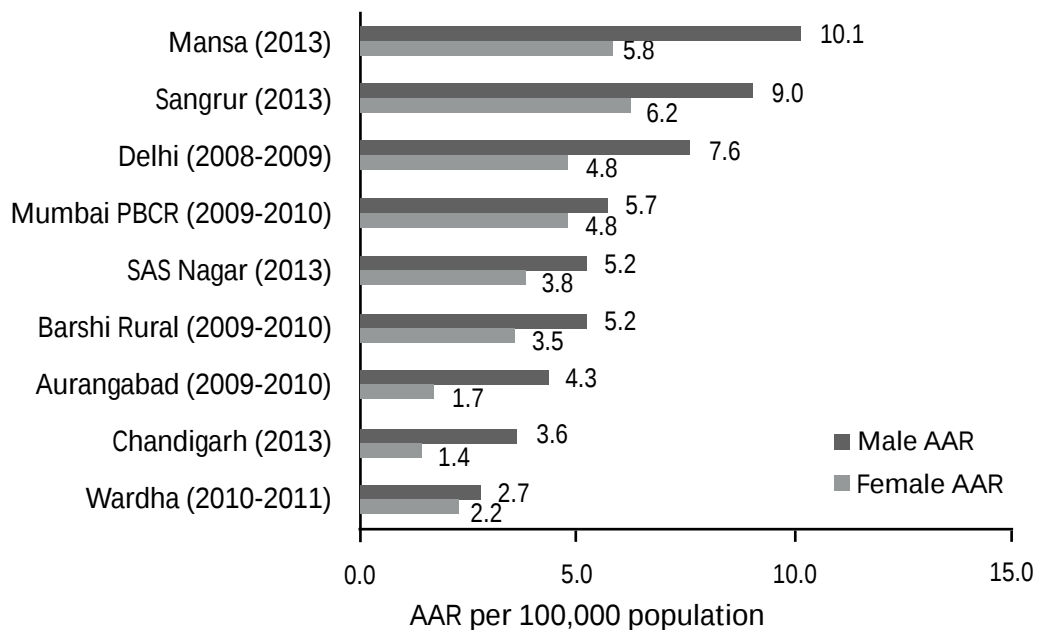


Figure 29: Comparison of Other and Unspecified Cancer Incidence Rate with other Indian Registries

11. Comparison of Cancer Incidence Rate with other Indian Registries

Age adjusted incidence rate for all sites for both the sex for the year 2013 was compared with other Indian PBCR (Fig 30 &31). The cancer incidence of Sangrur district are lower than urban area and it is in comparison with other rural cancer registries in the country.

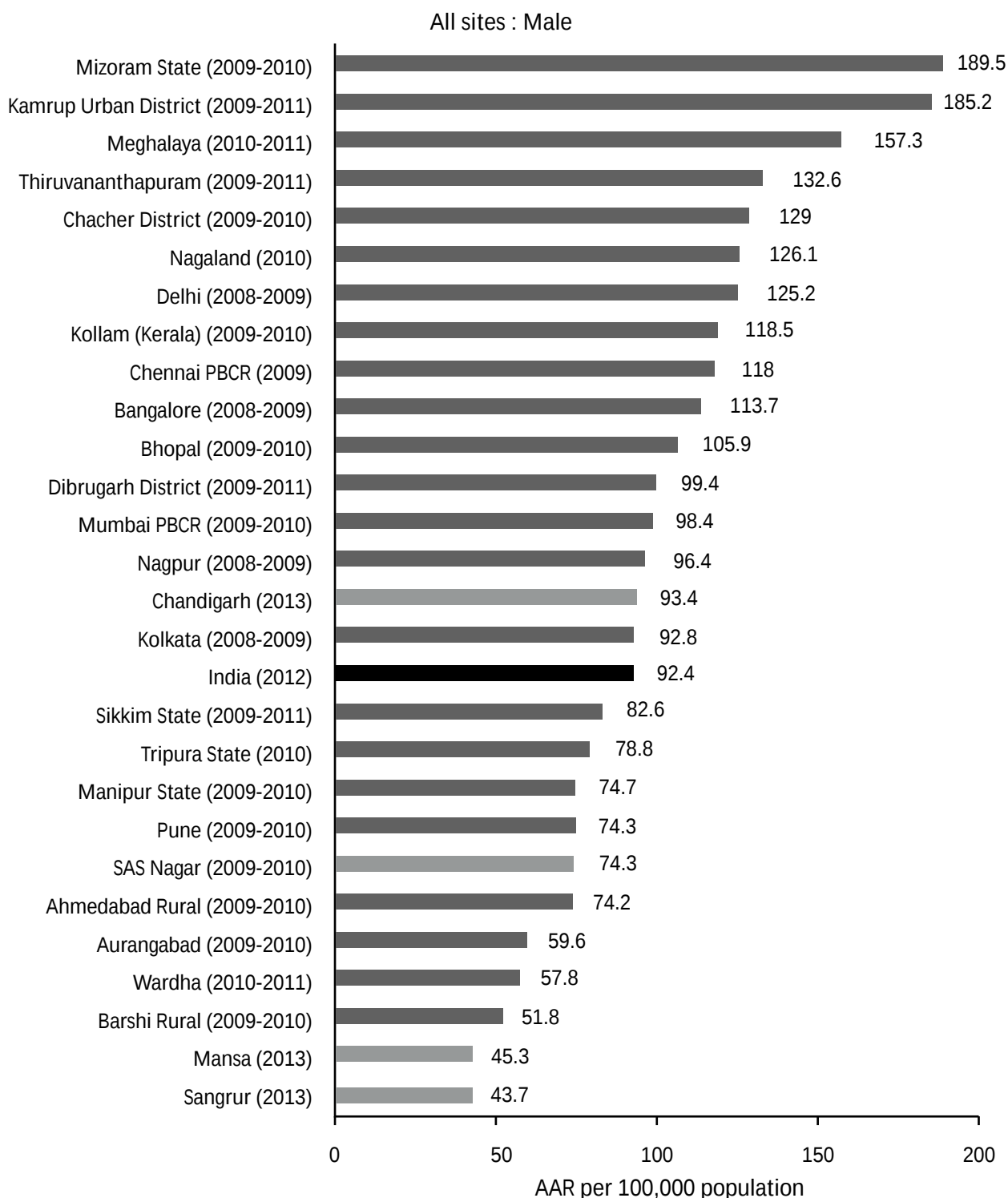


Figure 30: Age adjusted incidence rate of all cancer sites in male
Reference : 4,5,8,9 and 10

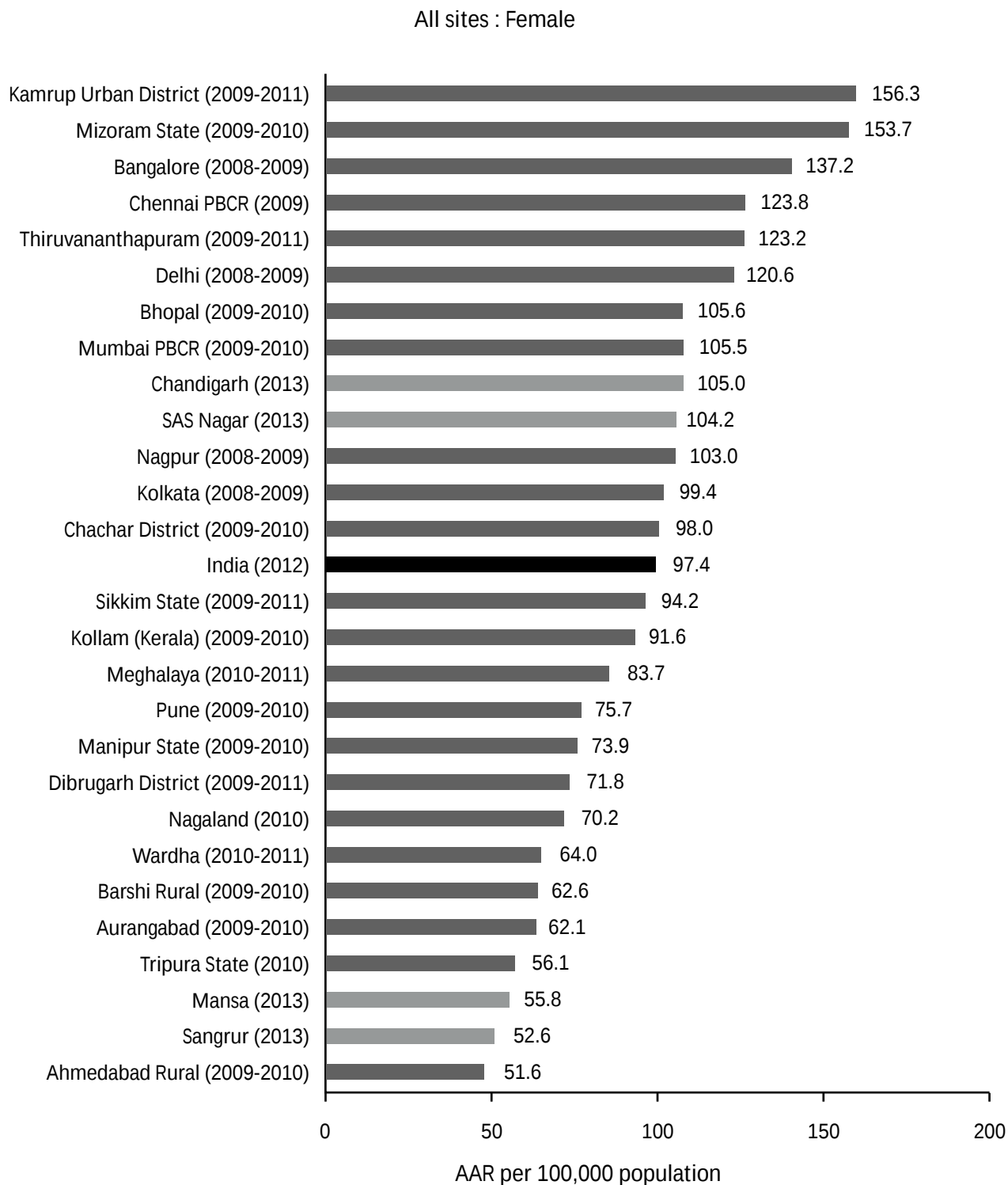


Figure 31: Age adjusted incidence rate of all cancer sites in female
Reference : 4,5,8,9 and 10

12. Under Registration / Under Diagnosed Cases

There may be under registration / under diagnosis of the cancer incidence and mortality cases. We may have missed the clinically diagnosed cases as well as pediatric cancer cases. Under registration/under diagnosis occurs mainly in the older age group 65 onwards due to reduced access to health care in the elderly age group. The Truncated rate in males is reported as 80.7 per 100000 and age adjusted rate 43.7 per 100000. The most of cases are registered in the age group 35 to 69 and there is declining trend in the age specific incidence rate in 70+ age. In the females the truncated rate is 127.2 per 100000 and age adjusted rate is 52.6 per 100000. The most of the cancer cases are registered in the age group 35-64 and there is declining trend in the age specific incidence rate after 65 age group.

In the first year of the registry, we were expecting the under registration due to difficulty in collecting the data as the cancer patients from this area travelled from 60 KMS to near about 420 kms for taking the cancer treatment. Due to continuous interaction in the village we have feeling that we may have missed very few cancer cases in the rural area however we may have under registration likely more in the urban population as it will be difficult to cover the urban population with the help community leaders. In the coming year we are planning to undertake house to house survey in 5% randomly selected population to check the completeness of the cancer registration process and we will get the exact percentage of under registration of the cases.

13. Hurdles in Establishing the Rural Cancer Registry

The cancer registry should be located in the area where diagnostic and treatment facilities should be available in the district. It was a difficult task to establish the cancer registry in the area where patient travelled several places for the cancer treatment. However, due to interaction with the community and constant efforts, we were able to get the cancer cases information.

In the initial period, five trained staff left the job. We had appointed new staff and trained them again. The selected staff was provided training at TMC, PGIMER, Barshi and Mumbai PBCR.

In the initial period two major cancer centers refused to provide the data. We were more dependent on the village visit. After continuous meeting with the authorities, one centre has permitted us to collect the data. Still one cancer centre refuse to give the data.

Few hospitals demand at every visit, a fresh request letter for the permission to collect the data. We arranged fresh letter for every visit to that hospital. we have spent lot of time in meeting the authorities.

Few hospitals just provided the cancer patient list with minimum information and they didn't allow us to go through medical records. Few patients' relatives refused to provide the information due to social issues.

There is limited infrastructure in the civil hospital. The registry staff has to depend on the other sources for the basic facilities.

Several times ANM, ASHA workers, PHC staff were busy in their activity and we have to wait until they finish their regular duties.

However due to interaction with the community constant efforts and due to joint collaboration of TMC, PGI and Government of Punjab; we were able to get the cancer cases information.

14. 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 diagnosed from 1st January 2013 to 31st December 2013 in the Sangrur district have been included.

Mortality: Cancer mortality is defined as the number of cancer deaths occurring in a defined population, in a defined geographic area during a particular year(s) per 100,000 population. All cancer deaths between 1st January 2013 to 31st December 2013 in Sangrur district have been 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.

$$CR = \frac{\text{Number of New cancer cases observed in the period 2013}}{\text{Estimated Population of the same year}} \times 100000$$

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 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 multiplying by 100,000

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

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

15. Standard Registry Tables

Table 12: Number of Incidence Cancers by Five Year Age Group and Site (ICD 10): 2013 – Males Sangrur District
% = Relative Proportion of Cancers of All Sites

ICD 10	Sites	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Total	%
C00	Lip	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.3
C01-C02	Tongue	-	-	-	-	-	1	1	1	1	1	2	-	2	1	2	1	13	3.4
C03-C06	Mouth	-	-	-	1	-	-	-	-	-	-	1	2	1	-	-	-	5	1.3
C07-C08	Salivary glands	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	2	0.5
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.3
C10	Other Oropharynx	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	3	0.8
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-C13	Hypopharynx	-	-	-	-	-	1	-	1	1	-	-	1	1	3	-	1	9	2.4
C14	Pharynx Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.3
C15	Oesophagus	-	-	-	-	-	-	1	2	6	3	4	4	6	8	5	5	44	11.6
C16	Stomach	-	-	-	-	-	1	-	-	1	1	1	1	3	2	-	1	11	2.9
C17	Small Intestine	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	0.5
C18	Colon	-	-	-	-	-	1	-	2	-	1	-	-	1	1	-	-	6	1.6
C19-C20	Rectum	-	-	-	-	-	1	-	1	-	-	1	-	3	1	-	2	9	2.4
C21	Anus & Anal Canal	-	-	-	-	-	1	-	-	1	1	1	-	-	-	1	-	5	1.3
C22	Liver	-	-	-	-	-	-	-	-	1	-	3	3	4	1	2	1	15	4.0
C23-C24	Gall Bladder	-	-	-	-	-	-	-	-	1	-	-	1	2	2	-	1	7	1.9
C25	Pancreas	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1	4	1.1
C30-C31	Nose, sinuses etc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C32	Larynx	-	-	-	-	-	-	1	-	-	2	1	3	1	-	1	1	10	2.6
C33-C34	Lung	-	-	-	-	-	-	-	1	2	-	2	3	2	1	2	1	14	3.7
C37-C38	Other Thoracic organ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	Bone	-	-	-	-	-	-	-	-	-	-	2	-	1	-	2	-	5	1.3
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	Other Skin	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.3
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	Conn. & Soft tissue	-	-	-	1	-	-	1	-	-	-	1	-	-	-	-	2	5	1.3
C50	Breast	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	0.5
C60	Penis	-	-	-	-	-	-	1	-	1	-	-	-	1	2	-	2	7	1.9
C61	Prostate	-	-	-	-	-	-	-	-	-	-	1	3	6	2	4	8	24	6.3
C62	Testis	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	2	0.5
C63	Other male genital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney etc.	-	-	-	-	-	-	-	-	-	1	-	-	1	1	2	-	5	1.3
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	-	-	-	-	-	-	-	-	1	2	2	1	1	1	8	2.1
C68	Uns. Urinary Organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	1.3
C70-C72	Brain, NS	-	-	-	-	1	-	-	1	1	3	3	-	4	2	2	-	17	4.5
C73	Thyroid	-	-	-	-	-	-	-	-	2	-	1	-	1	-	1	-	5	1.3
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	Hodgkins Disease	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	3	0.8
C82-C85,C96	NHL	-	-	1	-	-	-	-	-	-	3	-	-	-	1	5	1	11	2.9
C88	Imm. disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	-	-	-	-	1	-	-	1	2	1	-	1	6	1.6
C91	Lymphoid Leukemia	-	1	-	2	1	-	-	-	-	1	1	1	2	-	-	1	10	2.6
C92-C94	Myeloid Leukemia	-	-	-	-	1	3	1	-	-	-	1	-	2	3	1	1	13	3.4
C95	Leukemia Unspecified	-	-	-	2	-	-	-	-	1	1	2	1	1	1	-	-	9	2.4
	Other & Unspecified*	-	-	-	-	1	2	3	5	2	4	8	8	12	14	8	11	78	20.6
	Total	1	3	1	7	4	11	10	15	23	22	41	36	66	51	42	45	378	100.0

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

Table 13: Number of Incidence Cancers by Five Year Age Group and Site (ICD 10): 2013 – Females Sangrur District
% = Relative Proportion of Cancers of All Sites

ICD 10	Sites	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	Total	%
C00	Lip	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.2
C01-C02	Tongue	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	1	3	0.7
C03-C06	Mouth	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	2	0.5
C07-C08	Salivary gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	Other Oropharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.2
C12-C13	Hypopharynx	-	-	-	-	-	1	-	-	-	-	1	-	1	-	-	-	3	0.7
C14	Pharynx Unspecified	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.2
C15	Oesophagus	-	-	-	-	-	-	-	3	3	4	3	4	6	6	2	-	31	7.4
C16	Stomach	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	-	3	0.7
C17	Small intestine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C18	Colon	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	2	0.5
C19-C20	Rectum	-	-	-	-	-	1	-	-	-	1	-	-	1	1	-	-	4	1.0
C21	Anus	-	-	-	-	-	-	-	-	1	0	1	-	-	-	-	-	2	0.5
C22	Liver	-	-	-	-	-	-	-	1	1	0	2	2	1	1	-	2	10	2.4
C23-C24	Gall Bladder	-	-	-	-	-	-	-	-	3	2	2	3	5	3	1	-	19	4.5
C25	Pancreas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	0.2
C30-C31	Nose, Sinuses etc	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.2
C32	Larynx	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	0.2
C33-C34	Lung	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	0.2
C37-C38	Other Thoracic organ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	Bone	-	-	-	-	1	2	-	-	-	1	-	-	-	1	-	-	5	1.2
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	Other skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	Conn & soft tissue	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.2
C50	Breast	-	-	-	-	-	2	2	6	25	12	12	12	13	4	5	3	96	22.9
C51	Vulva	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	3	0.7
C52	Vagina	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	0.5
C53	Cervix Uteri	-	-	-	-	-	-	2	4	12	12	13	9	11	5	6	3	77	18.3
C54	Corpus Uteri	-	-	-	-	-	-	-	-	1	-	5	-	1	-	1	-	8	1.9
C55	Uterus unspecified	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-	5	1.2
C56	Ovary etc.	-	-	-	-	1	-	1	5	3	1	3	9	1	1	2	1	28	6.7
C57	Other female genital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C58	Placenta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	2	0.5
C65	Renal Pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	4	1.0
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	3	0.7
C70-C72	Brain, NS	-	-	-	-	1	1	1	-	-	3	1	2	1	-	-	-	10	2.4
C73	Thyroid	-	-	-	-	-	1	-	1	-	-	-	2	1	0	1	1	7	1.7
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	Hodgkins Disease	-	-	1	-	-	-	-	2	-	1	-	-	-	-	-	-	4	1.0
C82-C85,C96	NHL	-	-	-	-	-	-	-	-	-	-	2	1	1	1	-	-	5	1.2
C88	Imm. disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple Myeloma	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	3	0.7
C91	Lymphoid Leukemia	1	1	-	1	-	-	-	1	-	-	1	1	-	-	-	1	7	1.7
C92-C94	Myeloid Leukemia	-	-	-	1	1	-	-	1	1	1	3	-	-	1	-	-	9	2.1
C95	Leukemia Unspecified	-	-	-	1	-	-	-	1	-	-	1	-	-	2	1	1	7	1.7
	Other & Unspecified*	-	-	-	-	-	1	1	2	2	6	11	7	9	4	3	2	48	11.4
	Total	2	1	3	3	4	10	7	29	58	47	65	56	57	36	24	18	420	100.0

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

Table 14: Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35-64 yrs) (TR) Incidence Rate per 100,000 population: 2013 – Males Sangrur District

ICD 10	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TR
C00	-	-	-	-	-	-	-	-	-	-	-	-	3.1	-	-	-	0.1	0.1	0.4
C01-02	-	-	-	-	-	1.3	1.6	1.7	1.8	2.0	4.9	-	6.3	4.1	10.8	4.7	1.4	1.5	2.7
C03-06	-	-	-	1.0	-	-	-	-	-	-	2.4	7.1	3.1	-	-	-	0.6	0.6	1.7
C07-C08	-	-	-	-	-	-	-	-	-	-	4.9	-	-	-	-	-	0.2	0.2	0.8
C09	-	-	-	-	-	-	-	-	-	-	-	3.5	-	-	-	-	0.1	0.1	0.5
C10	-	-	-	-	-	-	-	-	-	-	2.4	-	6.3	-	-	-	0.3	0.4	1.2
C11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-C13	-	-	-	-	-	1.3	-	1.7	1.8	-	-	3.5	3.1	12.2	-	4.7	1.0	1.0	1.5
C14	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	-	-	0.1	0.1	-
C15	-	-	-	-	-	-	1.6	3.4	10.8	6.0	9.8	14.1	18.8	32.5	26.9	23.3	4.9	5.1	9.7
C16	-	-	-	-	-	1.3	-	-	1.8	2.0	2.4	3.5	9.4	8.1	-	4.7	1.2	1.3	2.8
C17	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1	-	-	0.2	0.2	-
C18	-	-	-	-	-	1.3	-	3.4	-	2.0	-	-	3.1	4.1	-	-	0.7	0.7	1.4
C19-C20	-	-	-	-	-	1.3	-	1.7	-	-	2.4	-	9.4	4.1	-	9.3	1.0	1.0	1.9
C21	-	-	-	-	-	1.3	-	-	1.8	2.0	2.4	-	-	-	5.4	-	0.6	0.6	1.1
C22	-	-	-	-	-	-	-	-	1.8	-	7.3	10.6	12.6	4.1	10.8	4.7	1.7	1.8	4.5
C23-C24	-	-	-	-	-	-	-	-	1.8	-	-	3.5	6.3	8.1	-	4.7	0.8	0.8	1.6
C25	-	-	-	-	-	-	-	-	-	-	2.4	-	-	-	10.8	4.7	0.4	0.4	0.4
C30-C31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C32	-	-	-	-	-	-	1.6	-	-	4.0	2.4	10.6	3.1	-	5.4	4.7	1.1	1.2	2.9
C33-C34	-	-	-	-	-	-	-	1.7	3.6	-	4.9	10.6	6.3	4.1	10.8	4.7	1.6	1.7	4.0
C37-C38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	-	-	-	-	-	-	-	-	-	-	4.9	-	3.1	-	10.8	-	0.6	0.6	1.2
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	-	-	-	-	-	-	-	-	-	-	-	-	3.1	-	-	-	0.1	0.1	0.4
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	-	-	-	1.0	-	-	1.6	-	-	-	2.4	-	-	-	-	9.3	0.6	0.5	0.4
C50	-	-	-	-	-	-	-	-	-	-	-	-	3.1	-	5.4	-	0.2	0.2	0.4
C60	-	-	-	-	-	-	1.6	-	1.8	-	-	-	3.1	8.1	-	9.3	0.8	0.8	0.8
C61	-	-	-	-	-	-	-	-	-	-	2.4	10.6	18.8	8.1	21.5	37.3	2.7	2.7	4.2
C62	-	-	-	-	-	-	-	1.7	1.8	-	-	-	-	-	-	-	0.2	0.2	0.7
C63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	-	-	-	-	-	-	-	-	-	2.0	-	-	3.1	4.1	10.8	-	0.6	0.6	0.8
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	-	-	-	-	2.4	7.1	6.3	4.1	5.4	4.7	0.9	1.0	2.1
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	1.4	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	0.6	0.6	-
C70-C72	-	-	-	-	1.1	-	-	1.7	1.8	6.0	7.3	-	12.6	8.1	10.8	-	1.9	2.0	4.6
C73	-	-	-	-	-	-	-	-	3.6	-	2.4	-	3.1	-	5.4	-	0.6	0.6	1.5
C74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	-	-	-	1.0	-	-	1.6	-	-	-	-	3.5	-	-	-	-	0.3	0.3	0.5
C82-C85, C96	-	-	1.1	-	-	-	-	-	-	6.0	-	-	-	4.1	26.9	4.7	1.2	1.2	1.2
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	1.8	-	-	3.5	6.3	4.1	-	4.7	0.7	0.7	1.6
C91	-	1.3	-	2.0	1.1	-	-	-	-	2.0	2.4	3.5	6.3	-	-	4.7	1.1	1.1	2.0
C92-C94	-	-	-	-	1.1	3.9	1.6	-	-	-	2.4	-	6.3	12.2	5.4	4.7	1.4	1.4	1.2
C95	-	-	-	2.0	-	-	-	-	1.8	2.0	4.9	3.5	3.1	4.1	-	-	1.0	1.0	2.4
O & U*	-	-	-	-	1.1	2.6	4.7	8.4	3.6	8.0	19.6	28.2	37.7	56.9	43.1	51.2	8.6	9.0	15.5
Total	1.4	3.8	1.1	7.1	4.3	14.2	15.7	25.2	41.3	43.9	100.4	127	207.2	207.4	226.0	209.6	41.9	43.7	80.7

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

Table 15: Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35- 64 yrs) (TR) Incidence Rate per 100,000 population: 2013 – Females Sangrur District

ICD 10	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TR
C00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8	0.1	0.1	-
C01-C02	-	-	-	-	-	-	-	1.7	-	-	2.8	-	-	-	-	4.8	0.4	0.3	0.8
C03-C06	-	-	-	-	-	-	-	-	-	-	-	-	3.0	4.5	-	-	0.3	0.3	0.4
C07-C08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-	-	0.1	0.1	0.4
C12-C13	-	-	-	-	-	1.4	-	-	-	-	2.8	-	3.0	-	-	-	0.4	0.4	0.8
C14	-	-	-	-	-	-	-	-	-	-	-	3.6	-	-	-	-	0.1	0.1	0.5
C15	-	-	-	-	-	-	-	5.2	5.5	8.5	8.4	14.2	18.1	27.0	12.9	-	3.9	3.9	9.3
C16	-	-	-	-	-	-	-	1.7	-	2.1	-	-	-	-	6.5	-	0.4	0.4	0.7
C17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C18	-	-	-	-	-	1.4	-	-	1.8	-	-	-	-	-	-	-	0.3	0.2	0.4
C19-C20	-	-	-	-	-	1.4	-	-	-	2.1	-	-	3.0	4.5	-	-	0.5	0.5	0.8
C21	-	-	-	-	-	-	-	-	1.8	-	2.8	-	-	-	-	-	0.3	0.3	0.8
C22	-	-	-	-	-	-	-	1.7	1.8	-	5.6	7.1	3.0	4.5	-	9.5	1.3	1.2	2.9
C23-C24	-	-	-	-	-	-	-	-	5.5	4.3	5.6	10.7	15.1	13.5	6.5	-	2.4	2.4	6.1
C25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	0.1	0.1	-
C30-C31	-	-	-	-	-	-	-	-	-	-	-	3.6	-	-	-	-	0.1	0.1	0.5
C32	-	-	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	0.1	0.1	0.4
C33-C34	-	-	-	-	-	-	-	-	-	-	2.8	-	-	-	-	-	0.1	0.1	0.5
C37-C38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	-	-	-	-	1.2	2.8	-	-	-	2.1	-	-	-	4.5	-	-	0.6	0.6	0.4
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-	-	0.1	0.1	0.4
C50	-	-	-	-	-	2.8	3.3	10.4	46.2	25.5	33.8	42.6	39.3	18.0	32.3	14.3	12.0	11.8	31.9
C51	-	-	-	-	-	-	-	-	-	-	2.8	3.6	-	-	-	4.8	0.4	0.4	0.9
C52	-	-	-	-	-	-	-	-	1.8	-	-	-	-	4.5	-	-	0.3	0.2	0.4
C53	-	-	-	-	-	-	3.3	6.9	22.2	25.5	36.6	32.0	33.3	22.5	38.8	14.3	9.6	9.7	24.9
C54	-	-	-	-	-	-	-	-	1.8	-	14.1	-	3.0	-	6.5	-	1.0	1.1	3.0
C55	-	-	-	-	-	-	-	-	-	2.1	2.8	3.6	3.0	4.5	-	-	0.6	0.7	1.7
C56	-	-	-	-	1.2	-	1.6	8.7	5.5	2.1	8.4	32.0	3.0	4.5	12.9	4.8	3.5	3.5	9.0
C57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	-	-	-	-	-	-	-	-	-	-	-	-	3.0	4.5	-	-	0.3	0.3	0.4
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	-	-	5.5	2.1	-	-	-	-	-	-	0.5	0.5	1.5
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	1.7	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-	4.8	0.4	0.4	-
C70-C72	-	-	-	-	1.2	1.4	1.6	-	-	6.4	2.8	7.1	3.0	-	-	-	1.3	1.2	3.0
C73	-	-	-	-	-	1.4	-	1.7	-	-	-	7.1	3.0	-	6.5	4.8	0.9	0.8	1.6
C74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	-	-	1.4	-	-	-	-	3.5	-	2.1	-	-	-	-	-	-	0.5	0.5	1.1
C82-C85, C96	-	-	-	-	-	-	-	-	-	-	5.6	3.6	3.0	4.5	-	-	0.6	0.7	1.8
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	1.4	-	-	-	-	-	-	-	-	-	-	9.0	-	-	0.4	0.4	-
C91	1.7	1.6	-	1.3	-	-	-	1.7	-	-	2.8	3.6	-	-	-	4.8	0.9	1.0	1.2
C92-C94	-	-	-	1.3	1.2	-	-	1.7	1.8	2.1	8.4	-	-	4.5	-	-	1.1	1.1	2.5
C95	-	-	-	1.3	-	-	-	1.7	-	-	2.8	-	-	9.0	6.5	4.8	0.9	0.9	0.8
O & U*	-	-	-	-	-	1.4	1.6	3.5	3.7	12.8	31.0	24.9	27.2	18.0	19.4	9.5	6.0	6.2	15.6
Total	3.4	1.6	4.3	3.9	4.9	14	11.5	50.3	107.1	99.9	183	198.9	172.4	161.8	155	85.8	52.6	52.6	127.2

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

Table 16: Cumulative rate (Cu. Rate %) & Cumulative risk (Cu. Risk) of individual sites (ICD 10) based on age specific rates (from 0-64 years and 0-74 years) 2013: Male

ICD 10	Sites	0-64 Years		0-74 Years	
		Cu. Rate %	Cu Risk %	Cu. Rate %	Cu Risk %
C00	Lip	-	-	-	-
C01-02	Tongue	0.001	0.001	0.002	0.002
C03-06	Mouth	0.001	0.001	0.001	0.001
C07-C08	Salivary glands	-	-	-	-
C09	Tonsil	-	-	-	-
C10	Other Oropharynx	-	-	-	-
C11	Nasopharynx	-	-	-	-
C12-C13	Hypopharynx	0.001	0.001	0.001	0.001
C14	Pharynx Unspecified	-	-	-	-
C15	Oesophagus	0.003	0.003	0.006	0.006
C16	Stomach	0.001	0.001	0.001	0.001
C17	Small Intestine	-	-	-	-
C18	Colon	-	-	0.001	0.001
C19-C20	Rectum	0.001	0.001	0.001	0.001
C21	Anus & Anal Canal	-	-	0.001	0.001
C22	Liver	0.002	0.002	0.002	0.002
C23-C24	Gall Bladder	0.001	0.001	0.001	0.001
C25	Pancreas	-	-	0.001	0.001
C30-C31	Nose, sinuses etc.	-	-	-	-
C32	Larynx	0.001	0.001	0.001	0.001
C33-C34	Lung	0.001	0.001	0.002	0.002
C37-C38	Other Thoracic organ	-	-	-	-
C40-C41	Bone	-	-	0.001	0.001
C43	Melanoma of skin	-	-	-	-
C44	Other Skin	-	-	-	-
C45	Mesothelioma	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-
C47+C49	Conn. & Soft tissue	-	-	-	-
C50	Breast	-	-	-	-
C60	Penis	-	-	0.001	0.001
C61	Prostate	0.002	0.002	0.003	0.003
C62	Testis	-	-	-	-
C63	Other male genital	-	-	-	-
C64	Kidney etc.	-	-	0.001	0.001
C65	Renal pelvis	-	-	-	-
C66	Ureter	-	-	-	-
C67	Bladder	0.001	0.001	0.001	0.001
C68	Uns. Urinary Organs	-	-	-	-
C69	Eye	-	-	-	-
C70-C72	Brain, NS	0.002	0.002	0.002	0.002
C73	Thyroid	-	-	0.001	0.001
C74	Adrenal gland	-	-	-	-
C81	Hodgkins Disease	-	-	-	-
C82-C85, C96	NHL	-	-	0.002	0.002
C88	Imm. disease	-	-	-	-
C90	Multiple myeloma	0.001	0.001	0.001	0.001
C91	Lymphoid Leukemia	0.001	0.001	0.001	0.001
C92-C94	Myeloid Leukemia	0.001	0.001	0.002	0.002
C95	Leukemia Unspecified	0.001	0.001	0.001	0.001
	Other & Unspecified*	0.01	0.01	0.01	0.01
	Total	0.03	0.03	0.05	0.05

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

Table 17: Cumulative rate (Cu. Rate %) & Cumulative risk (Cu. Risk) of individual sites (ICD 10) based on age specific rates (from 0-64 years and 0-74 years) 2013: Female

ICD 10	Sites	0-64 Years		0-74 Years	
		Cu. Rate %	Cu Risk %	Cu. Rate %	Cu Risk %
C00	Lip	-	-	-	-
C01-C02	Tongue	-	-	-	-
C03-C06	Mouth	-	-	-	-
C07-C08	Salivary gland	-	-	-	-
C09	Tonsil	-	-	-	-
C10	Other oropharynx	-	-	-	-
C11	Nasopharynx	-	-	-	-
C12-C13	Hypopharynx	-	-	-	-
C14	Pharynx Unspecified	-	-	-	-
C15	Oesophagus	0.003	0.003	0.01	0.01
C16	Stomach	-	-	0.001	0.001
C17	Small intestine	-	-	-	-
C18	Colon	-	-	-	-
C19-C20	Rectum	-	-	0.001	0.001
C21	Anus	-	-	-	-
C22	Liver	0.001	0.001	0.001	0.001
C23-C24	Gall Bladder	0.002	0.002	0.003	0.003
C25	Pancreas	-	-	-	-
C30-C31	Nose, Sinuses etc	-	-	-	-
C32	Larynx	-	-	-	-
C33-C34	Lung	-	-	-	-
C37-C38	Other Thoracic organ	-	-	-	-
C40-C41	Bone	-	-	0.001	0.001
C43	Melanoma of skin	-	-	-	-
C44	Other skin	-	-	-	-
C45	Mesothelioma	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-
C47+C49	Conn & soft tissue	-	-	-	-
C50	Breast	0.01	0.01	0.01	0.01
C51	Vulva	-	-	-	-
C52	Vagina	-	-	-	-
C53	Cervix Uteri	0.01	0.01	0.01	0.01
C54	Corpus Uteri	0.001	0.001	0.001	0.001
C55	Uterus unspecified	0.001	0.001	0.001	0.001
C56	Ovary etc.	0.003	0.003	0.004	0.004
C57	Other female genital	-	-	-	-
C58	Placenta	-	-	-	-
C64	Kidney	-	-	-	-
C65	Renal Pelvis	-	-	-	-
C66	Ureter	-	-	-	-
C67	Bladder	-	-	-	-
C68	Other urinary organs	-	-	-	-
C69	Eye	-	-	-	-
C70-C72	Brain, NS	0.001	0.001	0.001	0.001
C73	Thyroid	0.001	0.001	0.001	0.001
C74	Adrenal gland	-	-	-	-
C81	Hodgkins Disease	-	-	-	-
C82-C85 ,C96	NHL	0.001	0.001	0.001	0.001
C88	Imm. disease	-	-	-	-
C90	Multiple Myeloma	-	-	0.001	0.001
C91	Lymphoid Leukemia	0.001	0.001	0.001	0.001
C92-C94	Myeloid Leukemia	0.001	0.001	0.001	0.001
C95	Leukemia Unspecified	-	-	0.001	0.001
	Other & Unspecified*	0.01	0.01	0.01	0.01
	Total	0.04	0.04	0.06	0.06

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

Table 18: Number (#) and Proportion (%) of Cancers by Site (ICD -10) and Method of Diagnosis: 2013 – Males Sangrur District

ICD 10	Site	Clinical		Radiology		Endoscopy		Microscopic		Death Certificate /Other**		Total	
		#	%	#	%	#	%	#	%	#	%	#	%
C00	Lip	-	-	-	-	-	-	1	100.0	-	-	1	100.0
C01-02	Tongue	-	-	-	-	-	-	13	100.0	-	-	13	100.0
C03-06	Mouth	-	-	-	-	-	-	5	100.0	-	-	5	100.0
C07-C08	Salivary glands	-	-	-	-	-	-	2	100.0	-	-	2	100.0
C09	Tonsil	-	-	-	-	-	-	1	100.0	-	-	1	100.0
C10	Other Oropharynx	-	-	-	-	1	33.3	2	66.7	-	-	3	100.0
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	-
C12-C13	Hypopharynx	-	-	1	11.1	-	-	7	77.8	1	11.1	9	100.0
C14	Pharynx Unspecified	-	-	-	-	-	-	1	100.0	-	-	1	100.0
C15	Oesophagus	-	-	-	-	10	22.7	28	63.6	6	13.6	44	100.0
C16	Stomach	-	-	-	-	1	9.1	8	72.7	2	18.2	11	100.0
C17	Small Intestine	-	-	-	-	-	-	2	100.0	-	-	2	100.0
C18	Colon	-	-	-	-	-	-	5	83.3	1	16.7	6	100.0
C19-C20	Rectum	-	-	1	11.1	-	-	7	77.8	1	11.1	9	100.0
C21	Anus & Anal Canal	-	-	1	20.0	-	-	4	80.0	-	-	5	100.0
C22	Liver	-	-	4	26.7	2	13.3	9	60.0	-	-	15	100.0
C23-C24	Gall Bladder	-	-	5	71.4	-	-	2	28.6	-	-	7	100.0
C25	Pancreas	-	-	1	25.0	1	25.0	2	50.0	-	-	4	100.0
C30-C31	Nose, sinuses etc.	-	-	-	-	-	-	-	-	-	-	-	-
C32	Larynx	-	-	-	-	-	-	10	100.0	-	-	10	100.0
C33-C34	Lung	-	-	1	7.1	-	-	13	92.9	-	-	14	100.0
C37-C38	Other Thoracic organ	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	Bone	-	-	2	40.0	-	-	3	60.0	-	-	5	100.0
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-
C44	Other Skin	-	-	-	-	-	-	1	100.0	-	-	1	100.0
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	Conn. & Soft tissue	-	-	-	-	-	-	5	100.0	-	-	5	100.0
C50	Breast	1	50.0	-	-	-	-	1	50.0	-	-	2	100.0
C60	Penis	-	-	-	-	-	-	7	100.0	-	-	7	100.0
C61	Prostate	-	-	1	4.2	-	-	22	91.7	1	4.2	24	100.0
C62	Testis	-	-	-	-	-	-	2	100.0	-	-	2	100.0
C63	Other male genital	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney etc.	-	-	2	40.0	-	-	3	60.0	-	-	5	100.0
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	3	37.5	-	-	5	62.5	-	-	8	100.0
C68	Uns. Urinary Organs	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	-	-	-	-	3	60.0	2	40.0	5	100.0
C70-C72	Brain, NS	-	-	6	35.3	-	-	9	52.9	2	11.8	17	100.0
C73	Thyroid	-	-	-	-	-	-	5	100.0	-	-	5	100.0
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	-	-
C81	Hodgkins Disease	-	-	-	-	-	-	3	100.0	-	-	3	100.0
C82-C85,C96	NHL	-	-	-	-	-	-	9	81.8	2	18.2	11	100.0
C88	Imm. disease	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	-	-	6	100.0	-	-	6	100.0
C91	Lymphoid Leukemia	-	-	-	-	-	-	9	90.0	1	10.0	10	100.0
C92-C94	Myeloid Leukemia	-	-	-	-	-	-	13	100.0	-	-	13	100.0
C95	Leukemia Unspecified	-	-	1	11.1	-	-	8	88.9	-	-	9	100.0
	Other & Unspecified*	1	1.3	22	28.2	3	3.8	44	56.4	8	10.3	78	100.0
	Total	2	0.5	51	13.5	18	4.8	280	74.1	27	7.1	378	100.0

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

** Other: Information based on patients relatives / medical note

Table 19: Number (#) and Proportion (%) of Cancers by Site (ICD -10) and Method of Diagnosis: 2013 – Females Sangrur District

ICD 10	Site	Clinical		Radiology		Endoscopy		Microscopic		Death Certificate /Other**		Total	
		#	%	#	%	#	%	#	%	#	%	#	%
C00	Lip	-	-	-	-	-	-	1	100.0	-	-	1	100.0
C01-C02	Tongue	-	-	-	-	-	-	3	100.0	-	-	3	100.0
C03-C06	Mouth	-	-	-	-	-	-	2	100.0	-	-	2	100.0
C07-C08	Salivary gland	-	-	-	-	-	-	-	-	-	-	-	-
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-
C10	Other oropharynx	-	-	-	-	-	-	-	-	-	-	-	-
C11	Nasopharynx	-	-	-	-	-	-	1	100.0	-	-	1	100.0
C12-C13	Hypopharynx	-	-	-	-	-	-	3	100.0	-	-	3	100.0
C14	Pharynx Unspecified	-	-	-	-	-	-	1	100.0	-	-	1	100.0
C15	Oesophagus	1	3.2	-	-	7	22.6	21	67.7	2	6.5	31	100.0
C16	Stomach	-	-	2	66.7	-	-	1	33.3	-	-	3	100.0
C17	Small intestine	-	-	-	-	-	-	-	-	-	-	-	-
C18	Colon	-	-	-	-	-	-	2	100.0	-	-	2	100.0
C19-C20	Rectum	-	-	-	-	-	-	4	100.0	-	-	4	100.0
C21	Anus	-	-	-	-	-	-	2	100.0	-	-	2	100.0
C22	Liver	-	-	4	40.0	1	10.0	5	50.0	-	-	10	100.0
C23-C24	Gall Bladder	-	-	4	21.1	-	-	15	78.9	-	-	19	100.0
C25	Pancreas	-	-	-	-	-	-	1	100.0	-	-	1	100.0
C30-C31	Nose, Sinuses etc	-	-	-	-	-	-	1	100.0	-	-	1	100.0
C32	Larynx	-	-	-	-	-	-	1	100.0	-	-	1	100.0
C33-C34	Lung	-	-	-	-	-	-	1	100.0	-	-	1	100.0
C37-C38	Other Thoracic organ	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	Bone	-	-	1	20.0	-	-	4	80.0	-	-	5	100.0
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-
C44	Other skin	-	-	-	-	-	-	-	-	-	-	-	-
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	Conn & soft tissue	-	-	1	100.0	-	-	-	-	-	-	1	100.0
C50	Breast	1	1.0	1	1.0	-	-	90	93.8	4	4.2	96	100.0
C51	Vulva	-	-	-	-	-	-	3	100.0	-	-	3	100.0
C52	Vagina	-	-	-	-	-	-	2	100.0	-	-	2	100.0
C53	Cervix Uteri	-	-	9	11.7	-	-	52	67.5	16	20.8	77	100.0
C54	Corpus Uteri	-	-	-	-	-	-	8	100.0	-	-	8	100.0
C55	Uterus unspecified	-	-	-	-	-	-	5	100.0	-	-	5	100.0
C56	Ovary etc.	1	3.6	3	10.7	-	-	17	60.7	7	25.0	28	100.0
C57	Other female genital	-	-	-	-	-	-	-	-	-	-	-	-
C58	Placenta	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	-	-	2	100.0	-	-	-	-	-	-	2	100.0
C65	Renal Pelvis	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	1	25.0	-	-	3	75.0	-	-	4	100.0
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	1	33.3	1	33.3	-	-	-	-	1	33.3	3	100.0
C70-C72	Brain, NS	-	-	-	-	-	-	9	90.0	1	10.0	10	100.0
C73	Thyroid	-	-	-	-	-	-	7	100.0	-	-	7	100.0
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	-	-
C81	Hodgkins Disease	-	-	-	-	-	-	4	100.0	-	-	4	100.0
C82-C85,C96	NHL	-	-	-	-	-	-	5	100.0	-	-	5	100.0
C88	Imm. disease	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple Myeloma	-	-	-	-	-	-	3	100.0	-	-	3	100.0
C91	Lymphoid Leukemia	-	-	-	-	-	-	7	100.0	-	-	7	100.0
C92-C94	Myeloid Leukemia	-	-	-	-	-	-	9	100.0	-	-	9	100.0
C95	Leukemia Unspecified	-	-	-	-	-	-	6	85.7	1	14.3	7	100.0
Other & Unspecified*		-	-	12	25.0	-	-	30	62.5	6	12.5	48	100.0
Total		4	1.0	41	9.8	8	1.9	329	78.3	38	9.0	420	100.0

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

** Other: Information based on patients relatives / medical note

Table 20: Number of Cancer Deaths by Five Year Age Group and Site (ICD 10): 2013 –Males Sangrur District
% = Relative Proportion of Cancers of All Sites

ICD 10	Code	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	2	-	1	-	7	2.9
C03-06	Mouth	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	0.4
C07-C08	Salivary glands	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.4
C10	Other Oropharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	Nasopharynx	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	0.4
C12-C13	Hypopharynx	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	2	0.8
C14	Pharynx Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C15	Oesophagus	-	-	-	-	-	2	-	1	3	2	4	4	11	6	4	1	38	15.6
C16	Stomach	-	-	-	-	-	-	-	-	1	-	-	2	2	-	-	1	6	2.5
C17	Small Intestine	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.4
C18	Colon	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	3	1.2
C19-C20	Rectum	-	-	-	-	-	-	-	3	-	-	2	-	-	2	-	2	9	3.7
C21	Anus & Anal Canal	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	3	1.2
C22	Liver	-	-	-	-	-	-	-	-	1	-	3	5	3	1	2	3	18	7.4
C23-C24	Gall Bladder	-	-	-	-	-	-	-	-	2	-	1	-	1	1	-	3	8	3.3
C25	Pancreas	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2	0.8
C30-C31	Nose, sinuses etc.	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.4
C32	Larynx	-	-	-	-	-	-	-	-	-	1	1	2	-	-	2	1	7	2.9
C33-C34	Lung	-	-	-	-	-	-	-	1	1	-	1	2	1	-	3	1	10	4.1
C37-C38	Other Thoracic organ	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	0.4
C40-C41	Bone	-	-	-	-	-	-	-	-	-	-	1	2	1	2	1	-	7	2.9
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	Other Skin	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	2	0.8
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	Conn. & Soft tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C50	Breast	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.4
C60	Penis	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	3	1.2
C61	Prostate	-	-	-	-	-	-	-	-	-	-	-	-	2	5	-	4	11	4.5
C62	Testis	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	2	0.8
C63	Other male genital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney etc.	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	4	1.6
C65	Renal pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	2	5	2.1
C68	Uns. Urinary Organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	0.8
C70-C72	Brain, NS	-	-	-	-	-	-	-	1	-	1	2	2	2	2	2	1	13	5.3
C73	Thyroid	-	-	-	-	-	-	-	-	-	1	-	-	2	-	1	-	4	1.6
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	Hodgkins Disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C82-C85, C96	NHL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C88	Imm. disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple myeloma	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	3	1.2
C91	Lymphoid Leukemia	-	1	-	2	-	-	-	-	-	-	-	1	-	-	-	-	4	1.6
C92-C94	Myeloid Leukemia	-	-	-	-	-	2	-	-	-	-	-	-	2	1	2	-	7	2.9
C95	Leukemia Unspecified	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	2	0.8
	Other & Unspecified*	-	-	-	-	-	2	-	-	2	6	3	6	8	11	9	7	54	22.2
	Total	-	1	-	2	-	6	1	9	14	16	24	31	40	38	27	34	243	100.0

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

Table 21: Number of Cancer Deaths by Five Year Age Group and Site (ICD 10): 2013 –Females Sangrur District
% = Relative Proportion of Cancers of All Sites

ICD 10	Code	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-C02	Tongue	-	-	-	-	-	-	-	1	-	1	-	-	1	1	-	1	5	2.4
C03-C06	Mouth	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	1.0
C07-C08	Salivary gland	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	0.5
C09	Tonsil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	Other oropharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	Nasopharynx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-C13	Hypopharynx	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	0.5
C14	Pharynx Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C15	Oesophagus	-	-	-	-	-	-	1	1	1	4	5	5	3	2	4	2	28	13.7
C16	Stomach	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	3	1.5
C17	Small intestine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C18	Colon	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	0.5
C19-C20	Rectum	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	2	1.0
C21	Anus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22	Liver	-	-	-	-	-	-	-	1	1	1	3	1	-	3	-	2	12	5.9
C23-C24	Gall Bladder	-	-	-	-	-	-	-	-	-	1	-	5	2	2	2	-	12	5.9
C25	Pancreas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	0.5
C30-C31	Nose, Sinuses etc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C32	Larynx	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	0.5
C33-C34	Lung	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C37-C38	Other Thoracic organ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	Bone	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	2	1.0
C43	Melanoma of skin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	Other skin	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	0.5
C45	Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	Kaposi Sarcoma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	Conn & soft tissue	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	0.5
C50	Breast	-	-	-	-	-	1	2	2	4	4	9	7	4	4	1	1	39	19.0
C51	Vulva	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	1.0
C52	Vagina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C53	Cervix Uteri	-	-	-	-	-	-	3	2	2	4	6	2	4	2	2	-	27	13.2
C54	Corpus Uteri	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.5
C55	Uterus unspecified	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	3	1.5
C56	Ovary etc.	-	-	-	-	-	-	-	-	-	-	1	-	1	2	2	-	6	2.9
C57	Other female genital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C58	Placenta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	Kidney	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	2	1.0
C65	Renal Pelvis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	Ureter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	Bladder	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	2	1.0
C68	Other urinary organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	Eye	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1.0
C70-C72	Brain, NS	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	2	1.0
C73	Thyroid	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	2	1.0
C74	Adrenal gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	Hodgkins Disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C82-C85, C96	NHL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C88	Imm. disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	Multiple Myeloma	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.5
C91	Lymphoid Leukemia	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	3	1.5
C92-C94	Myeloid Leukemia	-	-	-	-	-	-	-	1	1	-	-	-	-	1	-	-	3	1.5
C95	Leukemia Unspecified	-	-	-	1	-	-	1	-	-	-	-	-	-	1	-	-	3	1.5
	Other & Unspecified*	-	-	-	-	-	1	-	-	1	4	6	3	7	6	5	1	34	16.6
	Total	1	-	1	2	0	5	8	10	13	23	33	25	25	30	19	10	205	100.0

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

Table 22: Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35- 64 yrs) (TR) Mortality Rate per 100,000 population: 2013 – Males Sangrur District

ICD 10	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TR
C00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C01-02	-	-	-	-	-	-	1.6	-	-	2.0	2.4	3.5	6.3	-	5.4	-	0.8	0.8	2.0
C03-06	-	-	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	0.1	0.1	0.3
C07-C08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C09	-	-	-	-	-	-	-	-	-	-	-	-	3.1	-	-	-	0.1	0.1	0.4
C10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	-	0.1	0.1	0.3
C12-C13	-	-	-	-	-	-	-	-	-	-	2.4	-	-	-	-	4.7	0.2	0.2	0.4
C14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C15	-	-	-	-	-	2.6	-	1.7	5.4	4.0	9.8	14.1	34.5	24.4	21.5	4.7	4.2	4.6	10.0
C16	-	-	-	-	-	-	-	-	1.8	-	-	7.1	6.3	-	-	4.7	0.7	0.7	2.1
C17	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	-	-	0.1	0.1	-
C18	-	-	-	-	-	-	-	-	-	-	4.9	-	-	4.1	-	-	0.3	0.4	0.8
C19-C20	-	-	-	-	-	-	-	5.0	-	-	4.9	-	-	8.1	-	9.3	1.0	1.0	1.8
C21	-	-	-	-	-	-	-	-	1.8	-	2.4	-	-	-	-	4.7	0.3	0.3	0.7
C22	-	-	-	-	-	-	-	-	1.8	-	7.3	17.6	9.4	4.1	10.8	14.0	2.0	2.2	5.0
C23-C24	-	-	-	-	-	-	-	-	3.6	-	2.4	-	3.1	4.1	-	14.0	0.9	0.9	1.5
C25	-	-	-	-	-	-	-	-	-	-	2.4	3.5	-	-	-	-	0.2	0.3	0.8
C30-C31	-	-	-	-	-	-	-	-	-	-	-	-	3.1	-	-	-	0.1	0.1	0.4
C32	-	-	-	-	-	-	-	-	-	2.0	2.4	7.1	-	-	10.8	4.7	0.8	0.8	1.7
C33-C34	-	-	-	-	-	-	-	1.7	1.8	-	2.4	7.1	3.1	-	16.1	4.7	1.1	1.2	2.4
C37-C38	-	-	-	-	-	-	-	-	-	-	-	3.5	-	-	-	-	0.1	0.1	0.5
C40-C41	-	-	-	-	-	-	-	-	-	-	2.4	7.1	3.1	8.1	5.4	-	0.8	0.9	1.7
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	-	-	-	-	-	-	-	-	-	2.0	-	-	-	-	-	4.7	0.2	0.2	0.4
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	0.1	0.1	-
C60	-	-	-	-	-	-	-	-	-	4.0	-	-	-	4.1	-	-	0.3	0.4	0.8
C61	-	-	-	-	-	-	-	-	-	-	-	-	6.3	20.3	-	18.6	1.2	1.2	0.8
C62	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	4.7	0.2	0.2	0.3
C63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	-	-	-	-	-	-	-	-	-	2.0	-	3.5	-	4.1	-	4.7	0.4	0.5	0.8
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	-	-	1.8	-	-	-	3.1	4.1	-	9.3	0.6	0.5	0.8
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	0.2	0.2	-
C70-C72	-	-	-	-	-	-	-	1.7	-	2.0	4.9	7.1	6.3	8.1	10.8	4.7	1.4	1.6	3.2
C73	-	-	-	-	-	-	-	-	-	2.0	-	-	6.3	-	5.4	-	0.4	0.5	1.2
C74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C82-C85 C96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	-	-	-	-	-	-	1.8	-	-	3.5	-	4.1	-	-	0.3	0.4	0.8
C91	-	1.3	-	2.0	-	-	-	-	-	-	-	3.5	-	-	-	-	0.4	0.4	0.5
C92-C94	-	-	-	-	-	2.6	-	-	-	-	-	-	6.3	4.1	10.8	-	0.8	0.8	0.8
C95	-	-	-	-	-	-	-	1.7	-	-	-	-	-	4.1	-	-	0.2	0.2	0.3
O & U *	-	-	-	-	-	2.6	-	-	3.6	12.0	7.3	21.2	25.1	44.7	48.4	32.6	6.0	6.3	10.2
Total	-	1.3	-	2.0	-	7.8	1.6	15.1	25.2	31.9	58.8	109.3	125.6	154.5	145.3	158.4	26.9	28.4	53.8

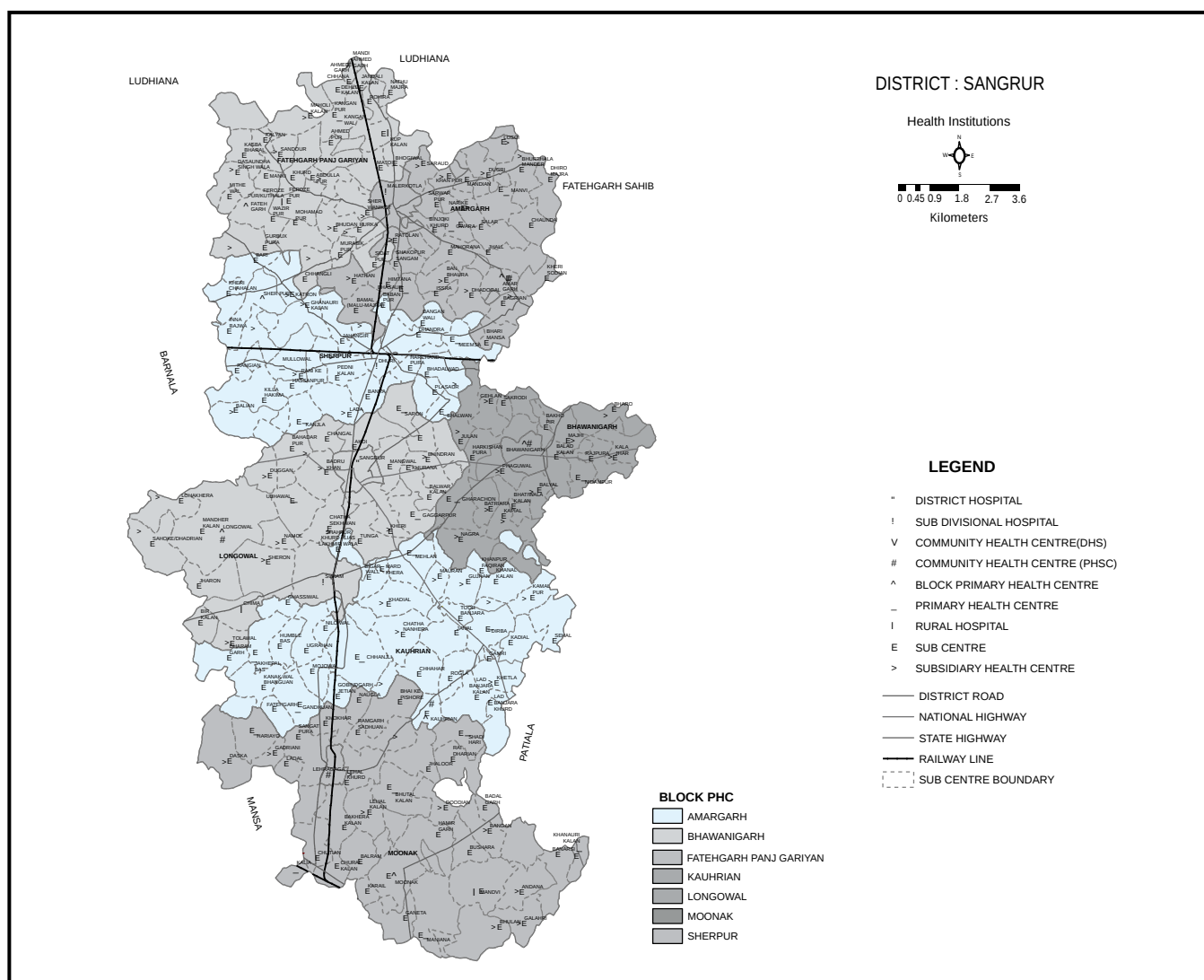
* O & U includes the sites (ICD - 10: C26, C39, C48, C75, C76, C77, C78, C79, C80, C97)

Table 23: Average Annual Age Specific, Crude (CR), Age Adjusted (AAR) and Truncated (35- 64 yrs) (TR) Mortality Rate per 100,000 population: 2013 – Female Sangrur District

ICD 10	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TR
C00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C01-C02	-	-	-	-	-	-	-	1.7	-	2.1	-	-	3.0	4.5	-	4.8	0.6	0.6	1.1
C03-C06	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	6.5	-	0.3	0.3	-
C07-C08	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	-	0.1	0.1	0.3
C09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C12-C13	-	-	-	-	-	1.4	-	-	-	-	-	-	-	-	-	-	0.1	0.1	-
C14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C15	-	-	-	-	-	-	1.6	1.7	1.8	8.5	14.1	17.8	9.1	9.0	25.9	9.5	3.5	3.6	8.1
C16	-	-	-	-	-	-	-	1.7	1.8	-	-	-	3.0	-	-	-	0.4	0.3	1.1
C17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C18	-	-	-	-	-	1.4	-	-	-	-	-	-	-	-	-	-	0.1	0.1	-
C19-C20	-	-	-	-	-	1.4	-	-	1.8	-	-	-	-	-	-	-	0.3	0.2	0.4
C21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C22	-	-	-	-	-	-	-	1.7	1.8	2.1	8.4	3.6	-	13.5	-	9.5	1.5	1.5	2.9
C23-C24	-	-	-	-	-	-	-	-	-	2.1	-	17.8	6.0	9.0	12.9	-	1.5	1.6	3.5
C25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	0.1	0.1	-
C30-C31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C32	-	-	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	0.1	0.1	0.4
C33-C34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C37-C38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C40-C41	-	-	-	-	-	-	-	-	-	-	-	-	3.0	4.5	-	-	0.3	0.3	0.4
C43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C44	-	-	-	-	-	-	-	-	-	2.1	-	-	-	-	-	-	0.1	0.1	0.4
C45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C47+C49	-	-	-	-	-	-	1.6	-	-	-	-	-	-	-	-	-	0.1	0.1	-
C50	-	-	-	-	-	1.4	3.3	3.5	7.4	8.5	25.3	24.9	12.1	18.0	6.5	4.8	4.9	5.0	12.6
C51	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	-	4.8	0.3	0.2	-
C52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C53	-	-	-	-	-	-	4.9	3.5	3.7	8.5	16.9	7.1	12.1	9.0	12.9	-	3.4	3.4	8.2
C54	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	-	-	0.1	0.1	-
C55	-	-	-	-	-	-	-	-	-	-	2.8	-	3.0	4.5	-	-	0.4	0.4	0.8
C56	-	-	-	-	-	-	-	-	-	-	2.8	-	3.0	9.0	12.9	-	0.8	0.8	0.8
C57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C64	-	-	-	-	-	-	-	-	-	2.1	-	-	-	4.5	-	-	0.3	0.3	0.4
C65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C67	-	-	-	-	-	-	-	-	-	2.1	2.8	-	-	-	-	-	0.3	0.3	0.9
C68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.5	0.3	0.2	-
C70-C72	-	-	-	-	-	-	-	-	-	2.1	-	3.6	-	-	-	-	0.3	0.3	0.9
C73	-	-	-	-	-	-	-	-	-	-	2.8	-	-	-	6.5	-	0.3	0.3	0.5
C74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C82-C85, C96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C90	-	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	-
C91	1.7	-	-	1.3	-	-	-	-	-	-	-	3.6	-	-	-	-	0.4	0.5	0.5
C92-C94	-	-	-	-	-	-	-	1.7	1.8	-	-	-	-	4.5	-	-	0.4	0.3	0.7
C95	-	-	-	1.3	-	-	1.6	-	-	-	-	-	-	4.5	-	-	0.4	0.3	-
O & U*	-	-	-	-	-	1.4	-	-	1.8	8.5	16.9	10.7	21.2	27.0	32.3	4.8	4.3	4.4	8.8
Total	1.7	-	1.4	2.6	-	7.0	13.2	17.3	24.0	48.9	92.9	88.8	75.6	134.9	122.9	47.7	25.7	26.0	53.7

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

16. Village wise Incidence and Mortality Cases : 2013



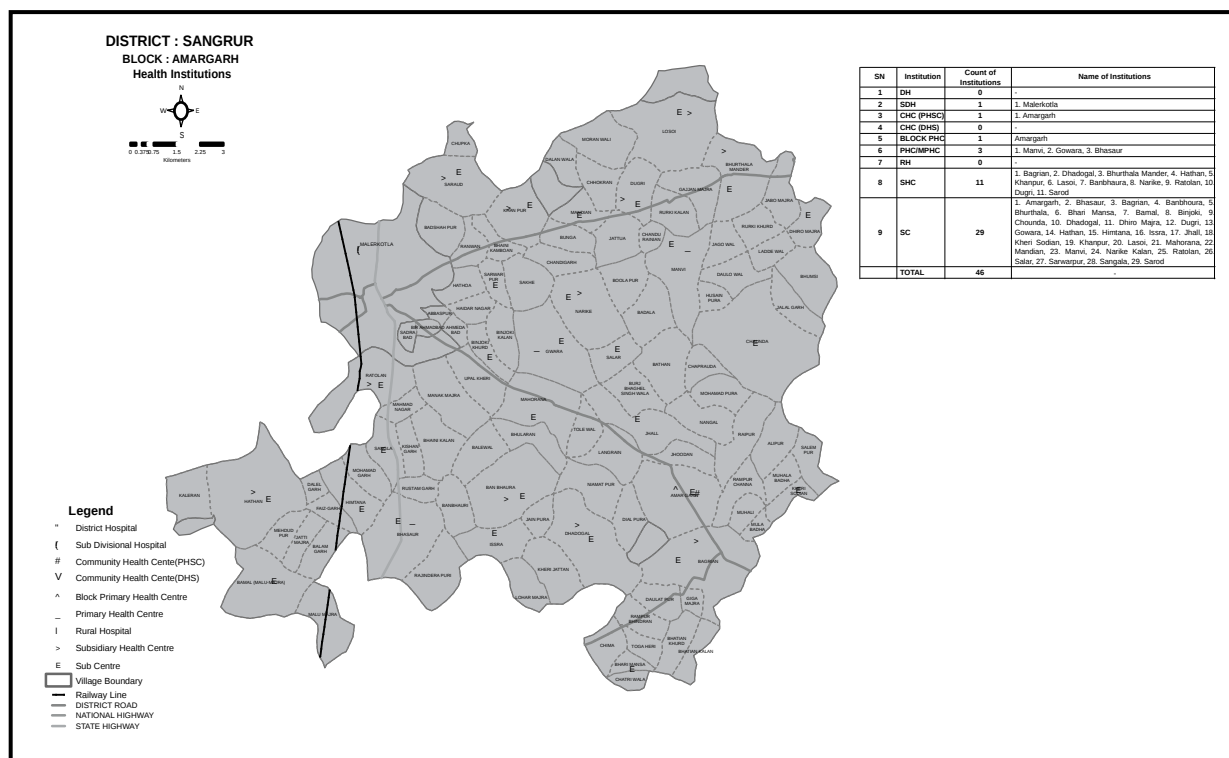
Village wise Cancer Incidence Cases and Mortality Cases: Sangrur District

Block	Incidence cases 2013			Mortality cases 2013		
	Male	Female	Total	Male	Female	Total
Urban area of Sangrur	77	80	157	37	18	55
Amargarh	48	46	94	33	25	58
Bhawanigarh	29	29	58	27	19	46
Fatehgarh Panj Garian	37	36	73	25	23	48
Kauhrian	43	75	118	20	44	64
Longowal	43	45	88	32	25	57
Moonak	67	66	133	51	28	79
Sherpur	34	43	77	18	23	41
Total	378	420	798	243	205	448

Village wise Cancer Incidence Cases and Mortality Cases: Urban, Sangrur District

Cancer Incidence and Mortality In Urban Area of Sangrur District							
Sr. No	Urban area	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
1	Sangrur	21	30	51	6	10	16
2	Sunam	12	19	31	2	4	6
3	Dhuri	13	9	22	5	1	6
4	Malerkotla	31	22	53	24	3	27
Total		77	80	157	37	18	55

Village wise Cancer Incidence Cases and Mortality Cases: Amargarh, Sangrur District



Village wise Cancer Incidence and Mortality : Amargarh, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
1	Ahmedabad	0	0	0	0	0	0
2	Alipur	0	1	1	0	0	0
3	Amargrh	0	2	2	2	2	4
4	Badesha	0	0	0	0	0	0
5	Badla	0	0	0	1	0	1
6	Badraheri	0	0	0	0	0	0
7	Badshahpur	1	0	1	0	0	0
8	Bagrian	3	4	7	2	1	3
9	Balamgarh	0	0	0	0	0	0
10	Bamal	2	2	4	1	0	1
11	Banbhoran	2	0	2	1	0	1
12	Banbhori	1	0	1	0	0	0
13	Batha	3	0	3	4	0	4
14	Beer Ahmedabad	0	0	0	0	0	0
15	Bhaini Kalan	0	2	2	0	0	0
16	Bhaini Kamoan	0	0	0	0	2	2
17	Bhaini khurd	0	0	0	0	0	0
18	Bhari Mansa	0	0	0	1	1	2
19	Bhasaur	2	1	3	1	1	2
20	Bhattian Kalan	0	0	0	0	0	0
21	Bhattian Khurd	0	1	1	0	0	0
22	Bhullran	0	0	0	0	0	0
23	Bhumsi	0	0	0	0	0	0

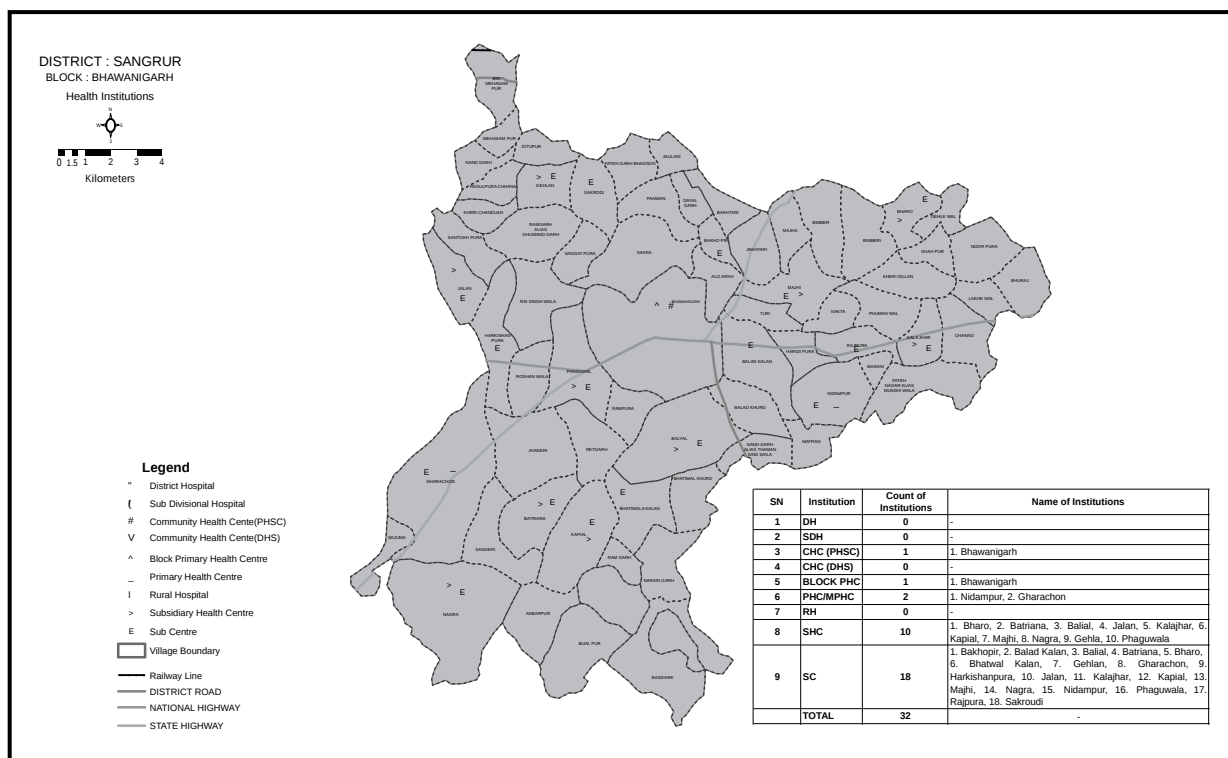
Village wise Cancer Incidence and Mortality: Amargarh, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
24	Bhurthala	0	1	1	0	0	0
25	Binjoki Kalan	0	1	1	0	0	0
26	Binjoki Khurd	1	0	1	0	0	0
27	Bullanpur	1	0	1	1	0	1
28	Bunga	0	0	0	0	0	0
29	Buraj Baghel	0	0	0	0	0	0
30	Chandigarh	0	0	0	0	0	0
31	Chanduraia	0	0	0	0	0	0
32	Chaprauda	0	1	1	0	0	0
33	Chattriwala	0	0	0	0	0	0
34	Chaunda	1	0	1	2	2	4
35	Cheema	1	1	2	0	0	0
36	Chhokran	1	0	1	0	0	0
37	Chupka	0	0	0	0	0	0
38	Dalanwal	1	0	1	1	0	1
39	Dalelgarh	0	0	0	1	0	1
40	Daulatpur Channa	0	0	0	0	0	0
41	Derogawal	0	0	0	0	0	0
42	Dhaddhogal	0	1	1	1	0	1
43	Dhiromajra	0	0	0	0	0	0
44	Dialpir Channa	1	0	1	0	0	0
45	Dolowal	1	0	1	0	0	0
46	Dugni	0	1	1	0	0	0
47	Dugri	1	0	1	0	0	0
48	Faizgarh	1	0	1	1	0	1
49	Gajjan Majra	0	0	0	0	0	0
50	Giga majra	0	0	0	0	0	0
51	Gowara	0	1	1	0	0	0
52	Haidarnagar	1	1	2	1	1	2
53	Hathan	0	1	1	0	0	0
54	Hathoa	1	0	1	0	0	0
55	Himtana	1	0	1	0	0	0
56	Husainpura	1	1	2	0	1	1
57	Issra	1	2	3	0	0	0
58	jabomajra	1	1	2	0	0	0
59	jaggowal	0	0	0	0	0	0
60	Jainpur	0	0	0	0	0	0
61	Jalalgarh	0	0	0	1	0	1
62	Jati Majra	2	0	2	1	0	1
63	Jattuan	1	0	1	0	0	0
64	Jhall	0	2	2	0	0	0
65	Jhunda	0	0	0	0	0	0
66	Kaleran	0	0	0	0	1	1
67	Khanpur	0	0	0	0	1	1
68	Kheri Jattan	0	2	2	0	2	2
69	Kheri Sodhian	0	0	0	0	0	0
70	ladewal	0	1	1	0	0	0
71	Langria	1	1	2	0	1	1

Village wise Cancer Incidence and Mortality: Amargarh, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
72	Lasoi	0	2	2	0	1	1
73	Lohar Majra	0	0	0	0	1	1
74	Mahorana	0	0	0	0	1	1
75	Malumajra	0	0	0	0	0	0
76	manak Majra	1	0	1	0	0	0
77	Mandian	2	0	2	2	0	2
78	Manvi	1	0	1	1	0	1
79	Mohala	1	0	1	0	0	0
80	Mohali	2	0	2	0	0	0
81	Mohamadgarh	0	1	1	0	0	0
82	Mohamadpura	0	0	0	0	0	0
83	moranwali	0	0	0	0	0	0
84	Mula Badan	0	0	0	0	0	0
85	Nangal	0	0	0	0	0	0
86	Narike Kalan	0	1	1	1	0	1
87	Narike Khurd	0	0	0	0	0	0
88	Niamat Pur	0	1	1	0	0	0
89	Radwan	0	0	0	0	0	0
90	Raipuir	1	1	2	1	0	1
91	Rajinder Nagar	0	0	0	1	0	1
92	Rampur Bhindra	0	0	0	0	0	0
93	Rampur Channa	2	1	3	0	0	0
94	Ratolan	0	1	1	0	0	0
95	Rurki Kalan	0	1	1	0	2	2
96	Rurki Khurd	0	1	1	0	0	0
97	Rustam Garh	0	0	0	0	1	1
98	Salar	0	1	1	1	1	2
99	Sampurangerh	0	0	0	0	0	0
100	Sangala	0	0	0	0	0	0
101	Sangali	1	0	1	0	0	0
102	Sarod	1	0	1	1	1	2
103	Sarwarpur	1	0	1	0	0	0
104	Sehke	0	0	0	0	0	0
105	Selempur	0	0	0	0	0	0
106	Togaheri	0	1	1	0	1	1
107	Tolewal	0	2	2	1	0	1
108	Uppoki	1	0	1	1	0	1
Total		48	46	94	33	25	58

Village wise Cancer Incidence Cases and Mortality Cases: Bhawanigarh, Sangrur District



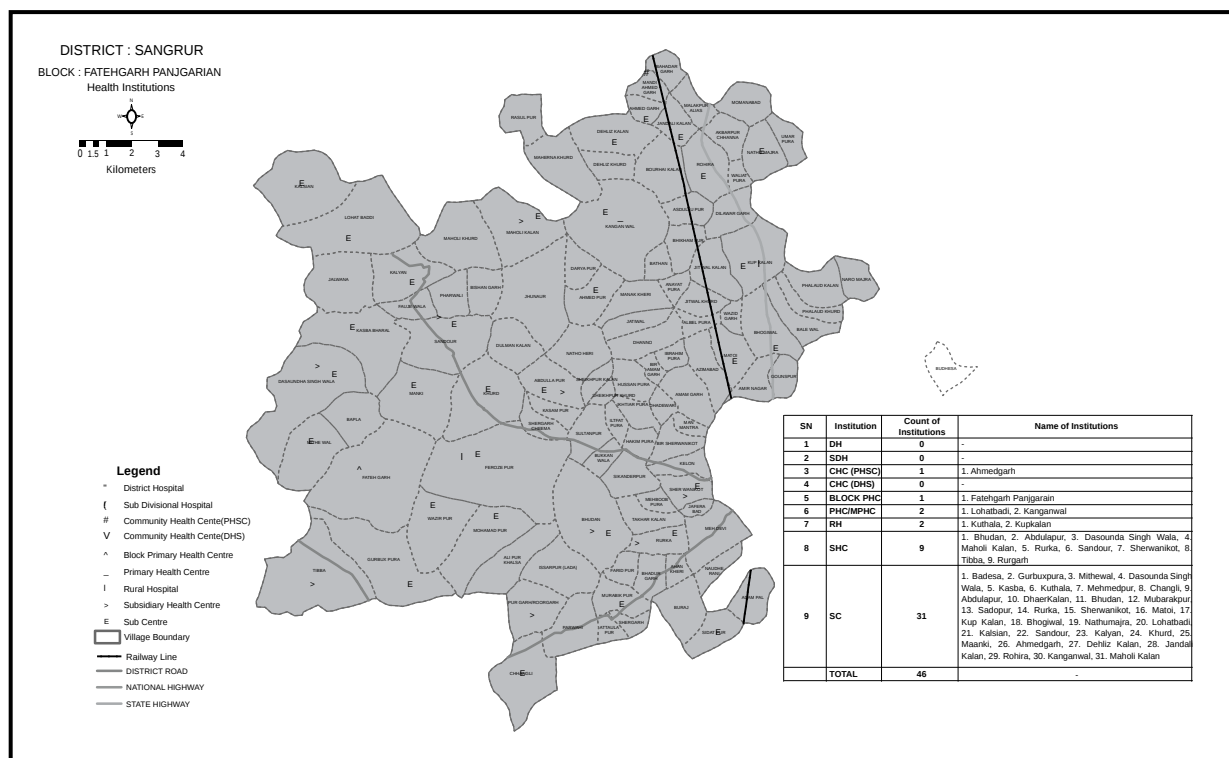
Village wise Cancer Incidence and Mortality: Bhawanigarh, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
1	Akbarpur	2	0	2	2	0	2
2	Aloarkh	0	1	1	0	0	0
3	Bakhopir	0	0	0	0	1	1
4	Bakhtra	0	0	0	1	1	2
5	Bakhtri	0	0	0	0	0	0
6	Balad Kalan	2	3	5	3	0	3
7	Balad Khurd	0	0	0	0	1	1
8	Balad Kothi	0	0	0	0	0	0
9	Balial	2	2	4	0	1	1
10	Bassiark	0	2	2	0	1	1
11	Batriana	0	0	0	0	0	0
12	Bharaj	0	1	1	0	0	0
13	Bharo	0	0	0	0	0	0
14	Bhatiwal Kalan	0	2	2	0	1	1
15	Bhatiwal Kurad	0	0	0	0	0	0
16	Bhawanigarh	8	5	13	4	1	5
17	Bijalpur	0	0	0	0	0	0
18	Bimbar	0	0	0	0	0	0
19	Bimbari	0	0	0	1	0	1
20	Channo	0	0	0	0	0	0
21	Dehlewal	0	0	0	0	0	0
22	Ditupura	0	0	0	0	0	0
23	Diyalgarh	0	0	0	0	0	0

Village wise Cancer Incidence and Mortality : Bhawanigarh, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
24	Fatehgarh Bhadoshan	1	0	1	0	1	1
25	Gehlan	0	0	0	0	0	0
26	Ghamad Singh wala	0	0	0	0	0	0
27	Gharachon	4	3	7	3	2	5
28	Hardipura	0	0	0	0	0	0
29	Harkishanpura	0	0	0	0	0	0
30	Jalan	0	0	0	0	0	0
31	Jaulian	0	0	0	0	0	0
32	Jhaneri	1	3	4	1	2	3
33	Kakra	0	0	0	0	0	0
34	Kalajhar	1	1	2	1		1
35	Kapial	0	1	1	0	0	0
36	Kheri Chandwan	0	0	0	0	0	0
37	Kheri Gillan	0	0	0	0	0	0
38	Lakhewal	0	0	0	0	0	0
39	Majha	0	0	0	0	0	0
40	Majhi	2	0	2	0	0	0
41	Masani	0	0	0	0	0	0
42	Mattran	0	0	0	0	0	0
43	Mehsampur	0	1	1	1	1	2
44	Munshiwala	1	0	1	1	0	1
45	Nadampur	0	1	1	0	1	1
46	Nagra	0	0	0	1	0	1
47	Nakte	0	0	0	0	0	0
48	Nandgarh	0	0	0	0	0	0
49	Naraingarh	0	1	1	0	0	0
50	Noorpura	1	0	1	0	0	0
51	Panwan	0	1	1	2	0	2
52	Phaguwala	0	0	0	1	0	1
53	Phamanwal	0	0	0	1	0	1
54	Rai Singh Wala	0	0	0	0	0	0
55	Rajpura	0	0	0	1	2	3
56	Ramgarh	1	0	1	0	0	0
57	Rampura	1	0	1	1	0	1
58	Rasulpur chhana	0	0	0	0	0	0
59	Retgah	0	1	1	0	1	1
60	Roshanwala	0	0	0	0	0	0
61	Sajuma	0	0	0	0	0	0
62	Sakrodi	0	0	0	0	0	0
63	Sangatpura	1	0	1	1	0	1
64	Sanghreri	1	0	1	0	1	1
65	Santokhpura	0	0	0	0	0	0
66	Shahpur	0	0	0	1	1	2
67	Turi	0	0	0	0	0	0
Total		29	29	58	27	19	46

Village wise cancer incidence cases and mortality cases: Fatehgarh Panj Garian, Sangrur District



Village wise Cancer Incidence and Mortality : Fatehgarh Panj Garian, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
1	Aadam Wal	0	0	0	0	0	0
2	Aahen Kheri	1	0	1	1	0	1
3	Abdulapur	0	0	0	0	1	1
4	Ahmedgarh	1	4	5	4	3	7
5	Ahmedgarh Chhanna	0	0	0	0	0	0
6	Akbarpur Chhanna	0	1	1	0	1	1
7	Albelapur (Rodiwal)	0	0	0	0	0	0
8	Alipur Khalsha	1	1	2	3	1	4
9	Alipura	0	0	0	0	0	0
10	Amirnagar Dulma	0	1	1	0	0	0
11	Badesa	0	0	0	0	0	0
12	Balewal	0	1	1	0	2	2
13	Bapla	0	0	0	0	0	0
14	Barkatpura	0	1	1	1	1	2
15	Bathan	0	0	0	0	0	0
16	Begowal	0	0	0	0	0	0
17	Bhogiwal	1	1	2	0	1	1
18	Bhudan	2	0	2	2	0	2
19	Bir Imamgarh	0	0	0	0	0	0
20	Bishangarh	0	0	0	0	0	0
21	Borhai Kalan	2	0	2	2	0	2
22	Borhai Khurd	0	0	0	0	0	0
23	Budhrawan	0	0	0	0	0	0

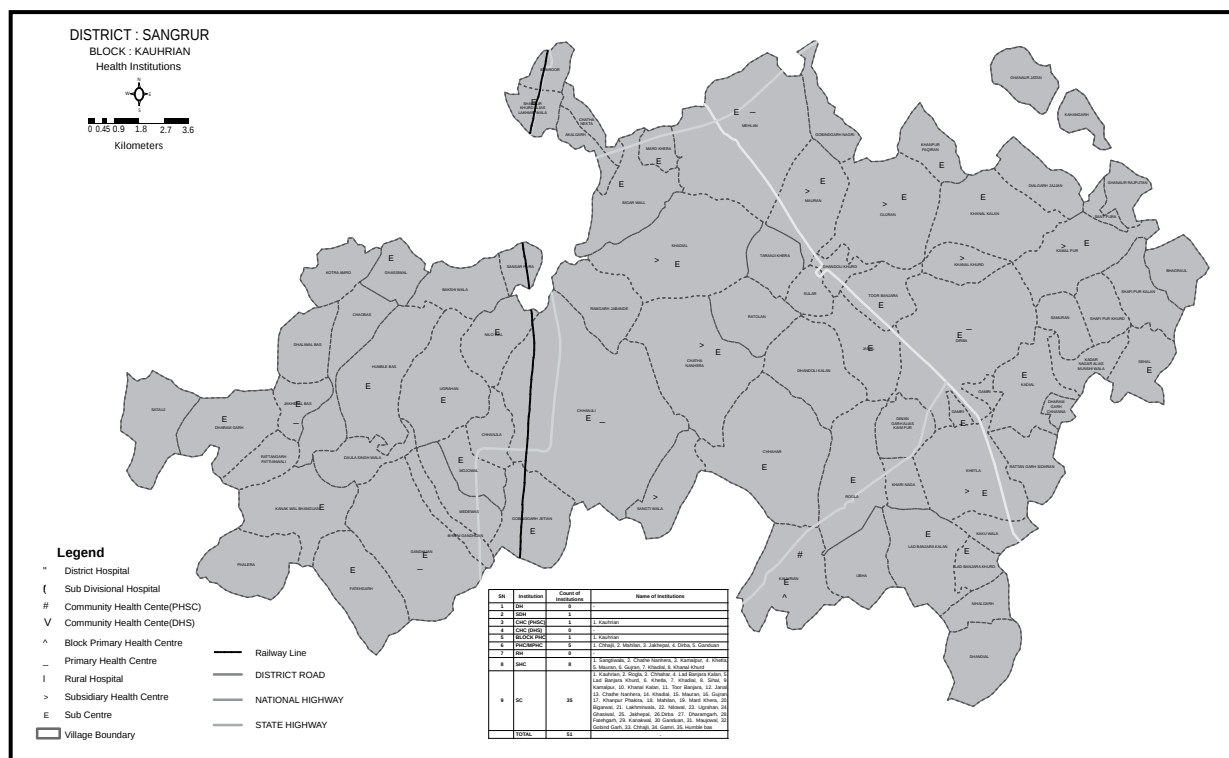
Village wise Cancer Incidence and Mortality : Fatehgarh Panj Garian, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
24	Bukanwal	0	0	0	0	1	1
25	Burj	0	0	0	0	0	0
26	Chak Kalan	0	1	1	0	1	1
27	Chak Khurd	0	0	0	0	0	0
28	Changli	1	0	1	0	0	0
29	Dasaunda Sing Wala	0	1	1	0	0	0
30	Dehliz kalan	1	1	2	0	1	1
31	Dehliz khurd	0	0	0	0	0	0
32	Dhadhewara	0	0	0	1	0	1
33	Dhadhewari	0	0	0	0	0	0
34	Dhaler Kalan	3	1	4	2	1	3
35	Dhaler Khurd	0	0	0	0	0	0
36	Dhano	1	0	1	0	0	0
37	Dulma	0	0	0	0	0	0
38	Falewal	1	1	2	1	0	1
39	Faridpur Kalan	0	0	0	0	0	0
40	Faridpur Khurd	0	0	0	0	0	0
41	Fatehgarh panjgrian	0	2	2	0	0	0
42	Fojewal	0	0	0	0	0	0
43	Gurbaxpura	0	2	2	0	0	0
44	Hakimpura	2	0	2	2	1	3
45	Husainpura	0	0	0	0	0	0
46	Ibrahimpura	0	0	0	0	0	0
47	Imamgarh	0	0	0	0	0	0
48	Isapur Landa	0	0	0	0	0	0
49	Jalwana	1	0	1	0	0	0
50	Jandali Kalan	0	0	0	0	0	0
51	Jandali Khurd	0	1	1	0	0	0
52	Jatiwal	0	1	1	0	0	0
53	Jatiwal Arian	0	0	0	0	0	0
54	Jhaner	1	0	1	0	1	1
55	Jitwal Kalan	0	0	0	0	0	0
56	Jitwal Khurd	0	2	2	0	0	0
57	Kalyan	1	0	1	0	0	0
58	Kanganwal	2	0	2	0	0	0
59	Kasapur	0	2	2	0	0	0
60	Kasba	0	0	0	1	1	2
61	Khurd	2	1	3	0	0	0
62	Kup Kalan	0	0	0	0	1	1
63	Kup Khurd	0	0	0	0	0	0
64	Kuthala	2	1	3	2	0	2
65	Madevi	0	0	0	0	0	0
66	Maherna Khurd	1	0	1	0	0	0
67	Mahmadpur	0	0	0	0	0	0
68	Maholi Kalan	1	0	1	0	0	0
69	Maholi Khurd	0	0	0	0	0	0
70	Manakheri+Anaditpura	0	0	0	0	0	0
71	Manki	0	0	0	1	0	1

Village wise Cancer Incidence and Mortality : Fatehgarh Panj Garian, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
72	Manmajra	0	0	0	0	0	0
73	Matoi	0	0	0	0	0	0
74	Mithewal	1	0	1	0	0	0
75	Momnabad	0	0	0	0	0	0
76	Mubarkpur	0	1	1	0	0	0
77	Naromajra	1	0	1	0	0	0
78	Nathoheri	0	0	0	0	0	0
79	Nathumajra	0	0	0	0	0	0
80	Naudhrani	1	0	1	0	0	0
81	Phalound Kalan	0	0	0	0	0	0
82	Phalound Khurd	0	0	0	0	0	0
83	Pharwahi	2	1	3	1	0	1
84	Pharwali	0	0	0	0	0	0
85	Rasulpur	0	0	0	0	0	0
86	Rohira	1	0	1	0	0	0
87	Roorgarh	0	0	0	0	0	0
88	Rurka	2	0	2	0	0	0
89	Sadopur	0	1	1	0	0	0
90	Sandaur	0	1	1	0	3	3
91	Sangain	0	2	2	0	0	0
92	Shergarh Cheema	0	0	0	0	0	0
93	Sherwanikot	0	0	0	0	0	0
94	Sikanderpura	1	1	2	1	0	1
95	Takhar Kalan	0	1	1	0	1	1
96	Takhar Khurd	0	0	0	0	0	0
97	Tibba	0	1	1	0	1	1
98	Umarpura	0	0	0	0	0	0
99	Wazidpur (Rohno)	0	0	0	0	0	0
Total		37	36	73	25	23	48

Village wise cancer incidence cases and mortality cases: Kauhrian, Sangrur District



Village wise Cancer Incidence and Mortality : Kauhrian, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
1	Akalgarh	0	0	0	0	0	0
2	Amrukotra	0	2	2	0	0	0
3	Baghrol	1	2	3	0	0	0
4	Bakshiwala	1	2	3	0	2	2
5	Bhaini	0	0	0	0	0	0
6	Bharoor	0	0	0	0	0	0
7	Biggarwal	2	2	4	0	2	2
8	Bishanpura	0	1	1	0	1	1
9	Camper	1	0	1	0	0	0
10	Chahhar	1	1	2	2	1	3
11	Chathe Nanhera	0	3	3	0	1	1
12	Chauwas (Jakhepal)	0	2	2	1	1	2
13	Chhajla	0	1	1	0	0	0
14	Chhajli	1	5	6	1	1	2
15	Daula Singh Wala	0	1	1	0	1	1
16	Dhaliwas (Jakhepal)	0	0	0	0	0	0
17	Dhandial	0	0	0	0	0	0
18	Dhandoli Kalan	1	1	2	1	0	1
19	Dhandoli Khurd	0	0	0	0	0	0
20	Dharamgarh	0	0	0	0	0	0
21	Dharamgarh Channa	0	0	0	0	0	0
22	Dialgarh	0	0	0	1	0	1
23	Dirba	4	3	7	1	3	4

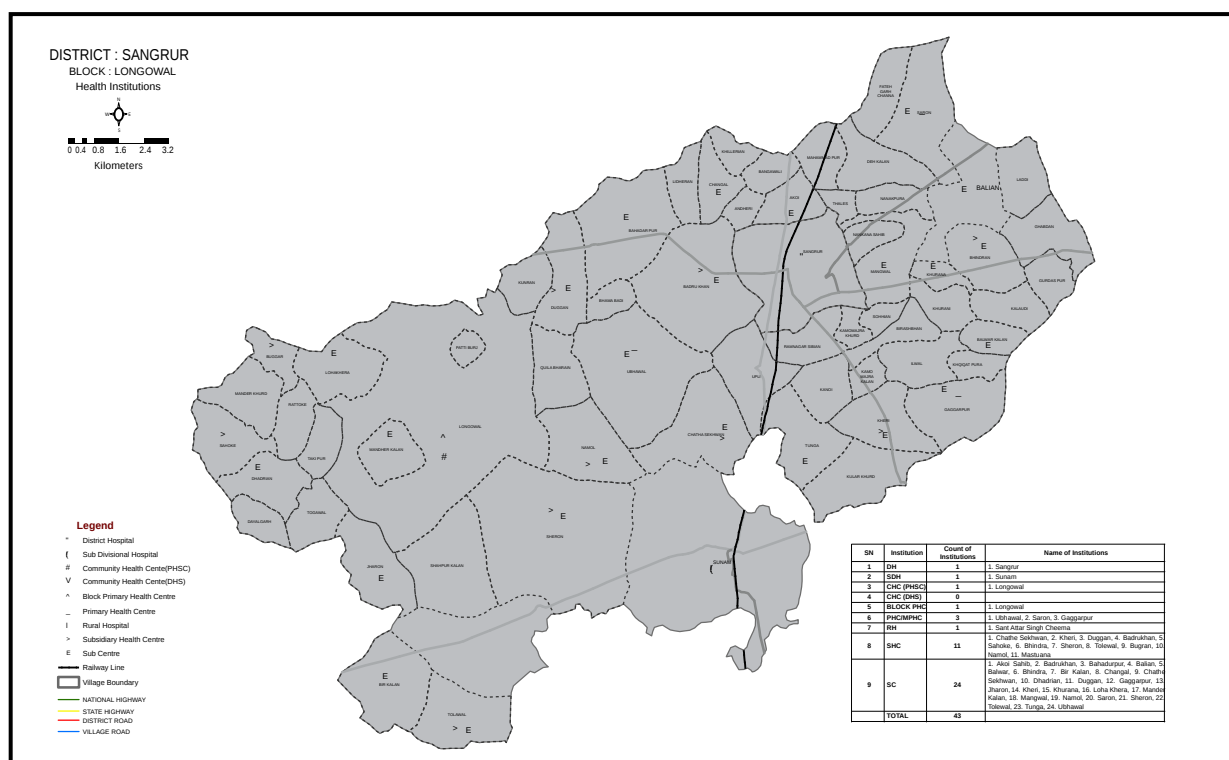
Village wise Cancer Incidence and Mortality : Kauhrian, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
24	Falera	1	1	2	1	1	2
25	Fatehgarh	1	1	2	0	0	0
26	Gamri	0	0	0	0	0	0
27	Ghanaur Jatan	0	0	0	1		1
28	Ghanaur Rajputan	0	1	1	0	1	1
29	Ghanduan	1	2	3	1	0	1
30	Gharat	0	1	1	1	2	3
31	Ghasiwala	0	1	1	0	0	0
32	Gobindgarh Jejian	0	1	1	0	1	1
33	Gujran	1	5	6	1	3	4
34	Hambalwas (Jakhepal)	0	2	2	0	2	2
35	Jaggatpura	0	0	0	0	0	0
36	Jakhepal Was (Jakhepal)	1	2	3	0	0	0
37	Janal	1	3	4	0	1	1
38	Jawandhe	0	0	0	0	0	0
39	Kadial	0	3	3	0	0	0
40	Kahanal Khurd	0	1	1	0	0	0
41	Kahangarh	0	1	1	0	0	0
42	Kakuwala	1	0	1	0	0	0
43	Kamalpur	1	0	1	0	1	1
44	Kanakwal	0	0	0	0	0	0
45	Kauhrian	1	0	1	1	0	1
46	Khadial	0	1	1	0	1	1
47	Khadial Kothe	0	1	1	0	0	0
48	Khanal Kalan	2	2	4	1	3	4
49	Khanpur Fakira	2	0	2	1	0	1
50	Khetla	1	1	2	0	0	0
51	Chhajli Kothe	0	0	0	0	0	0
52	Laadbanajara Khurd	0	0	0	0	1	1
53	Laadbanjara Kalan	1	1	2	0	1	1
54	Lakhmirwala	0	1	1	0	0	0
55	Maidewas	0	1	1	0	1	1
56	Mardkhera	0	0	0	0	0	0
57	Mauran	2	1	3	2	1	3
58	Mehlan	0	3	3	0	0	0
59	Mojowal	0	1	1	0	0	0
60	Munsiwala	0	0	0	0	0	0
61	Nagakheri	0	0	0	0	0	0
62	Nagri	0	0	0	0	0	0
63	Nakte Chathe	0	0	0	0	1	1
64	Nihargarh	0	0	0	0	0	0
65	Nilowal	0	2	2	0	0	0
66	Others	0	0	0	0	0	0
67	Rampur Gujran	1	1	2	0	0	0
68	Ratolan	0	0	0	0	0	0
69	Rattangarh Chindran	0	1	1	0	0	0
70	Rattangarh Patyali	1	0	1	0	0	0
71	Rogla	1	1	2	0	1	1

Village wise Cancer Incidence and Mortality: Kauhrian, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
72	Safipur Kalan	1	0	1	0	0	0
73	Safipur Khurd	0	0	0	0	0	0
74	Sangtiwala	0	0	0	0	0	0
75	Satauj	1	1	2	1	0	1
76	Sihal	0	0	0	0	1	1
77	Singhpura (Gujapir)	0	0	0	0	0	0
78	Smooran	0	0	0	0	1	1
79	Sullar	1	0	1	1	0	1
80	Taranjikhera	0	0	0	0	1	1
81	Tibi Basti Gurbakshpura	0	0	0	0	0	0
82	Toorbanjara	3	1	4	0	1	1
83	Ubhyan	3	0	3	0	3	3
84	Ugrahan	2	4	6	1	2	3
Total		43	75	118	20	44	64

Village Wise Cancer Incidence Cases and Mortality Cases: Longowal, Sangrur District



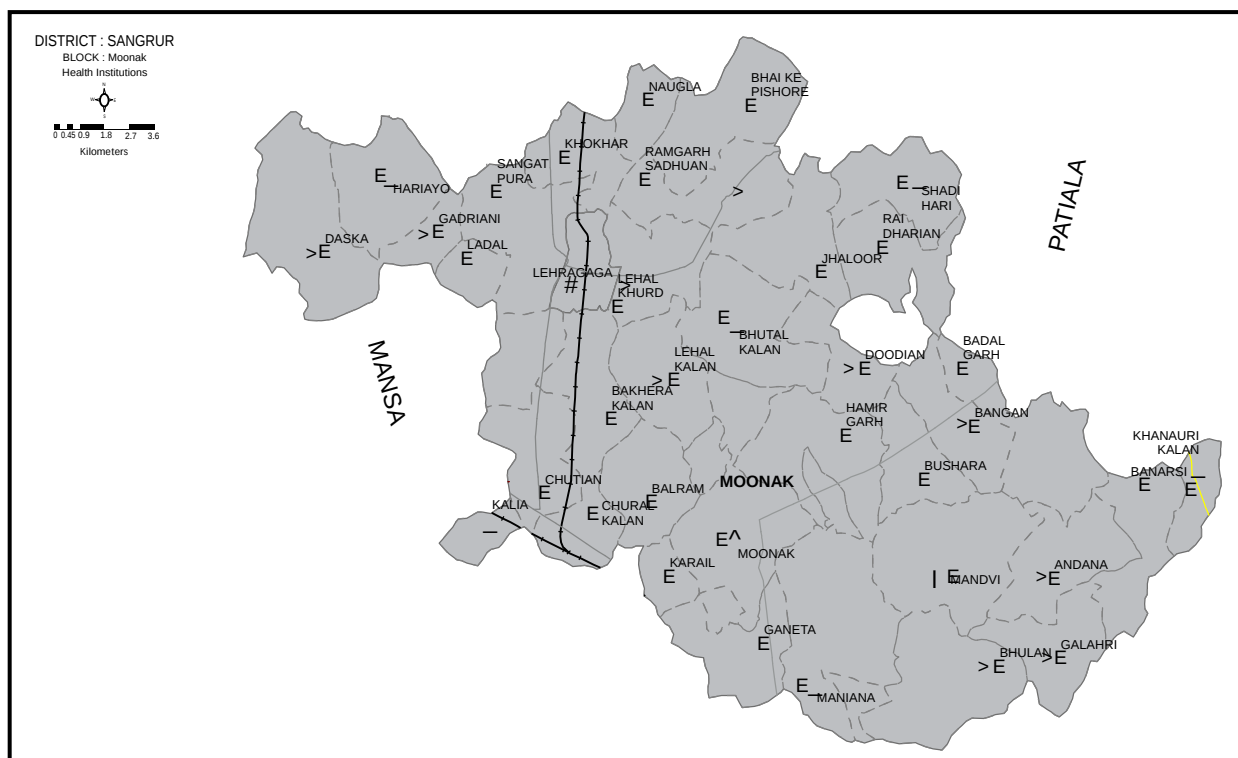
Village wise Cancer Incidence and Mortality : Longowal, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
1	Akoi Sahib	0	0	0	0	0	0
2	Bahadarpur	1	1	2	2	2	4
3	Badrukhan	3	1	4	3	1	4
4	Balbad Kalan	0	0	0	0	0	0
5	Balbad Khurd	0	0	0	0	0	0
6	Balian	0	0	0	0	0	0
7	Banggawali	0	1	1	0	0	0
8	Bhamabaddi	0	0	0	1	0	1
9	Bhindran	0	0	0	0	2	2
10	Bir Kalan	0	1	1	0	1	1
11	Buggar	1	0	1	2	1	3
12	Chawal	0	0	0	0	0	0
13	Chathe Sekhwa	0	0	0	0	1	1
14	Chathe	0	1	1	0	1	1
15	Cheema	0	0	0	1	1	2
16	Dehkalan	0	0	0	0	0	0
17	Dhadrian	0	0	0	0	0	0
18	Dialgarh	0	0	0	0	0	0
19	Duggan	1	1	2	1		1
20	Ellawal	0	1	1	0	0	0
21	Fatehgarh Channa	2	0	2	1	1	2
22	Gaggarpur	1	0	1	1	0	1
23	Ghabadan	0	2	2	1	0	1

Village wise Cancer Incidence and Mortality : Longowal, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
24	Gurdaspura	0	0	0	0	0	0
25	Gurdaspura Gurthli	0	0	0	0	0	0
26	Hreri	0	0	0	0	0	0
27	Jeet Mangwal naiwala	0	0	0	0	0	0
28	Jharron	0	2	2	0	0	0
29	Jheor majra Khurani	0	0	0	0	0	0
30	Jheor majra Sohian	0	0	0	0	0	0
31	Kaloudi	0	0	0	0	1	1
32	Kamomajra kalan	1	0	1	1	0	1
33	Kamomajra Khurad	0	1	1	0	0	0
34	Kanoi	0	1	1	0	0	0
35	Kheri	3	0	3	2	0	2
36	Khilrian	0	0	0	0	0	0
37	Khurani	0	0	0	0	1	1
38	Kila Bharian	0	0	0	0	0	0
39	Kularkhurd	2	0	2	2	1	3
40	Kunran	1	0	1	0	0	0
41	Kurahana	1	2	3	0	0	0
42	Laddi	0	0	0	0	0	0
43	Liddran	1	0	1	0	0	0
44	Loha khera	3	1	4	1	0	1
45	Mander Kalan	0	1	1	0	1	1
46	Mander Khurd	0	1	1	2	1	3
47	Mohammadpur Channa	0	0	0	0	0	0
48	Mangwal	0	1	1	0	1	1
49	Naiwala	0	0	0	0	0	0
50	Namol	2	2	4	0	1	1
51	Rampura	0	0	0	0	0	0
52	Pindian	0	1	1	0	0	0
53	Ratoke	0	2	2	0	1	1
54	Rupa Heri	0	0	0	0	0	0
55	Sahoke	0	3	3	1	1	2
56	Sarron	1	0	1	0	0	0
57	Shahpur	1	3	4	0	0	0
58	Sheron	2	2	4	0	0	0
59	Sibia	0	0	0	0	0	0
60	Sohian	0	0	0	0	0	0
61	Takkipur	0	0	0	0	0	0
62	Thlesan	0	0	0	0	0	0
63	Togowal	5	1	6	1	0	1
64	Tolawal	1	0	1	0	0	0
65	Tunggan	2	0	2	2	1	3
66	Ubhawal	0	1	1	2	1	3
67	Uppli	3	2	5	2	0	2
68	Urban Longowal	5	9	14	3	3	6
Total		43	45	88	32	25	57

Village wise Cancer Incidence Cases and Mortality Cases: Moonak, Sangrur District



Village wise Cancer Incidence and Mortality : Moonak, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
1	Alampur	0	0	0	0	0	0
2	Aliser	0	2	2	0	1	1
3	Andana	0	1	1	2	0	2
4	Arkwass	0	0	0	1	0	1
5	Badalgarh	1	0	1	0	0	0
6	Bahmni wala	0	0	0	1	0	1
7	Bakhora kalan	1	1	2	0	0	0
8	Bakhora Khurd	0	2	2	0	2	2
9	Balran	3	2	5	2	1	3
10	Banarsi	0	0	0	0	0	0
11	Banga	0	0	0	0	0	0
12	Bathua	0	0	0	0	1	1
13	Bhai ke pisor	1	1	2	0	0	0
14	Bhullan	2	0	2	2	1	3
15	BhunderBhaini	2	1	3	1	1	2
16	Bhutal kalan	2	0	2	2	0	2
17	Bhutal Khuard	0	2	2	0	0	0
18	Bishanpura Khokhar	0	1	1	0	0	0
19	Boper	1	0	1	0	1	1
20	Bushera	1	1	2	1	0	1
21	Chandu	0	0	0	0	0	0
22	Changaliwala	1	0	1	1	0	1
23	Chathe gobindapura	0	0	0	0	0	0

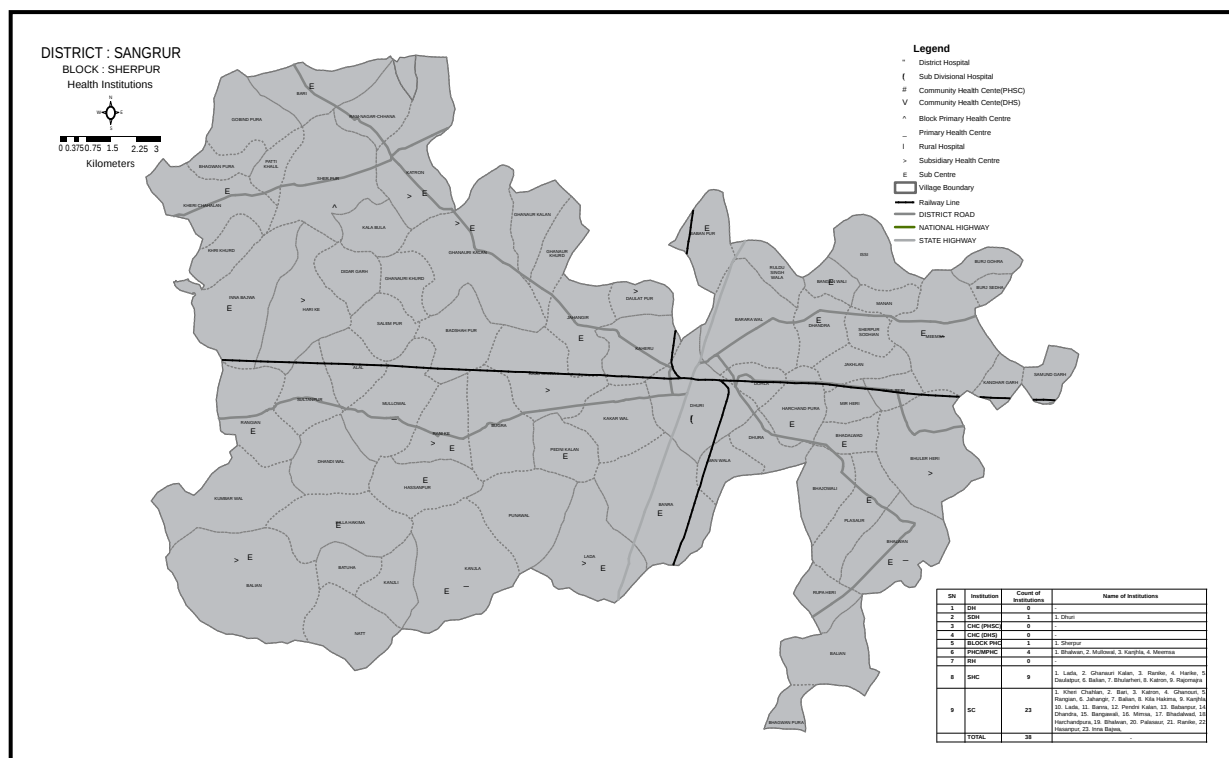
Village wise Cancer Incidence and Mortality : Moonak, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
24	Chotian	0	1	1	0	0	0
25	Churalkalan	0	0	0	0	0	0
26	Churalkhurad	0	0	0	0	0	0
27	Daska	0	1	1	1	0	1
28	Dehla	3	1	4	2	0	2
29	Dera Bhutal kalan	0	0	0	0	0	0
30	Dera Raidharana	0	0	0	0	0	0
31	Dhindsa	1	2	3	0	1	1
32	Doodian	1	1	2	0	0	0
33	Gaga	2	2	4	1	1	2
34	Ganota	1	1	2	1	0	1
35	Ghamoorghat	0	0	0	0	0	0
36	Ghorenab	0	0	0	0	0	0
37	Gidriani	0	1	1	1	1	2
38	Gobindpura Jawahar wala	1	0	1	1	0	1
39	Gobindpura Papda	0	0	0	0	0	0
40	Gulari	4	0	4	2	0	2
41	Gurnekalan	0	0	0	0	0	0
42	Gurnekhurd	0	0	0	0	0	0
43	Guru Nanak Nagar churalkalan	0	1	1	0	0	0
44	Guru teg bahader Haryau	0	0	0	0	0	0
45	Hamirgarh	0	1	1	0	0	0
46	Handa	0	0	0	0	0	0
47	Harigarh	0	0	0	0	0	0
48	Harigarh Gehla	1	0	1	2	2	4
49	Haryao	0	1	1	0	0	0
50	Hotipur	0	0	0	0	0	0
51	Jhaloor	2	2	4	1	0	1
52	Kal banjara	1	1	2	3	0	3
53	Kalian	1	1	2	0	0	0
54	Karail	0	0	0	0	0	0
55	Karoda	1	2	3	1	2	3
56	Khai	3	1	4	0	1	1
57	Khandebad	1	0	1	0	0	0
58	Khanouri	3	0	3	3	0	3
59	Khokhar kalan	0	0	0	0	1	1
60	Khokhar khurd	0	1	1	0	0	0
61	Kother Dashmeshnagar Daska	0	0	0	0	0	0
62	Kotralehal	0	0	0	0	0	0
63	Kudni	0	0	0	0	0	0
64	Ladal	0	0	0	0	0	0
65	Lehalkalan	1	2	3	2	2	4
66	Lehalkhurd	1	0	1	1	1	2
67	Mahansingh wala	0	0	0	0	0	0
68	Makror Sahib	1	1	2	0	0	0
69	Mandvi	0	3	3	0	1	1

Village wise Cancer Incidence and Mortality : Moonak, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
70	Mandvi Khurd	0	0	0	0	0	0
71	Maniana	1	0	1	1	0	1
72	Nangla	0	1	1	0	0	0
73	Navan Gaon	0	2	2	0	0	0
74	Phulad	0	0	0	0	0	0
75	Rai Dharana	1	1	2	1	0	1
76	Rajalheri	0	0	0	0	0	0
77	Ramgarh Gujran	0	0	0	0	0	0
78	Ramgarh Sandhua	0	0	0	0	0	0
79	Rampura gujra	0	0	0	0	0	0
80	Rampura jawahrwala	1	0	1	0	0	0
81	Ratta Khera	0	1	1	0	0	0
82	Rorewala	1	0	1	2	0	2
83	Salemgarh	0	1	1	0	0	0
84	Sangatpura	1	0	1	0	0	0
85	Shadihari	2	2	4	0	1	1
86	Shekhuwass	1	1	2	1	1	2
87	Shergarh	0	0	0	0	0	0
88	Surjan Bhaini	0	0	0	0	0	0
89	Thaska	1	0	1	1	0	1
90	Therri	0	0	0	0	0	0
91	Urban Cheema	1	2	3	0	0	0
92	Urban Moonak	3	8	11	3	4	7
93	Urban Lehragaga	10	6	16	7	1	8
Total		67	66	133	51	28	79

Village Wise Cancer Incidence Cases And Mortality Cases: Sherpur, Sangrur District



Village Wise Cancer Incidence And Mortality : Sherpur, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
1	Alal	1	0	1	1	0	1
2	Babanpur	0	1	1	0	0	0
3	Badashpur	3	0	3	0	0	0
4	ina Bajwa	1	2	3	1	0	1
5	Balian	0	2	2	0	2	2
6	Bangawali	0	1	1	0	0	0
7	Bardwal	0	0	0	0	1	1
8	Barri	0	0	0	0	0	0
9	Batuha	1	0	1	0	0	0
10	Benra	2	2	4	2	3	5
11	Bhadalwad	0	0	0	0	0	0
12	Bhagwanpura	0	0	0	0	0	0
13	Bhalwan	0	0	0	0	0	0
14	Bhojowali	0	0	0	0	1	1
15	Bhullerheri	0	2	2	0	0	0
16	Bugra	1	0	1	1	0	1
17	Burj Gohra	0	0	0	0	0	0
18	Burj Sedha	2	0	2	0	0	0
19	Daultpur	1	0	1	0	0	0
20	Dhandiwal	1	0	1	0	1	1
21	Dhandra	1	0	1	1	0	1
22	Dhura	1	0	1	0	0	0
23	Dhuri Pind	0	3	3	0	0	0

Village wise Cancer Incidence and Mortality : Sherpur, Sangrur District

Sr. No	Village Name	Incidence cases 2013			Mortality cases 2013		
		Male	Female	Total	Male	Female	Total
24	Didargarh	2	1	3	0	1	1
25	Dohla	0	0	0	0	0	0
26	Ghanour Kalan	1	1	2	0	0	0
27	Ghanour Khurd	0	1	1	0	0	0
28	Ghanouri Kalan	0	3	3	2	2	4
29	Ghanouri Khurd	0	1	1	0	0	0
30	Gobindpura	0	0	0	0	0	0
31	Harchandpur	0	1	1	0	0	0
32	Hasanpur	0	0	0	0	0	0
33	Herike	1	0	1	0	0	0
34	Issi	0	0	0	0	0	0
35	Jahangir	0	0	0	0	0	0
36	Jakhlan	0	0	0	0	0	0
37	Kakkarwal	1	0	1	1	0	1
38	Kala Bula	1	0	1	1	0	1
39	Kandhargah	0	1	1	0	0	0
40	Kanjali	0	0	0	0	0	0
41	Kanjla	2	3	5	2	2	4
42	Katron	0	2	2	0	2	2
43	Kaulseri	1	2	3	0	0	0
44	Kheri Kalan	1	1	2	0	0	0
45	Kheri Khurd	0	0	0	0	0	0
46	Kheru	0	0	0	1	0	1
47	Kila Hakima	0	0	0	0	0	0
48	Kumberwal	1	0	1	1	0	1
49	Ladda	0	2	2	0	2	2
50	Ladda Kothi	0	0	0	0	0	0
51	Mana	0	0	0	1	0	1
52	Manwala	1	0	1	0	0	0
53	Meemsa	0	0	0	0	0	0
54	Meerheri	1	0	1	0	0	0
55	Mullowal	2	0	2	1	0	1
56	Natt	0	1	1	0	0	0
57	Palasour	1	1	2	0	0	0
58	Patti Khalil	0	0	0	0	0	0
59	Pedhni Kalan	0	0	0	0	0	0
60	Punnawal	0	0	0	0	0	0
61	Rajomajra	0	1	1	0	1	1
62	Ramnagar Channa	0	0	0	0	1	1
63	Rangian	0	1	1	0	0	0
64	Ranike	1	0	1	0	1	1
65	Ruldu Singh Wala	0	0	0	0	0	0
66	Salempur	0	0	0	1	0	1
67	Samundgarh	0	0	0	0	0	0
68	Sherpur	2	6	8	1	2	3
69	Sherpur Sodhian	0	0	0	0	0	0
70	Sultanpur	0	1	1	0	1	1
Total		34	43	77	18	23	41

17. References

1. Census of India 2011 (censusindia.gov.in – downloaded on 21/12/2015) http://www.censusindia.gov.in/2011-prov_results/data_files/punjab/Provisional%20Populatin%20Result%20Punjab1.pdf
2. Government of Punjab, India :(<http://punjab.gov.in/state-profile> - downloaded on 21/12/2015).
3. Official website of Sangrur district of Punjab State, India (<http://sangrur.nic.in> downloaded on 21/12/2015).
4. National Cancer Registry Programme – Indian Council of Medical Research : Three year report of PBCR 2009-2011, Bangalore 2013
5. GLOBOCAN 2012: Estimated Cancer Incidence, Mortality and Prevalence worldwide: IARC/WHO, Lyon France 2012.
6. Canreg5 Open Source Software: International Agency for Research on Cancer Lyon, France.
7. International Classification of Diseases for Oncology – Third edition : WHO, Geneva 2000
8. Chandigarh Population Based Cancer Registry Report: 2013 – Tata Memorial Center, Mumbai and Post Graduate Institute of Medical Education and Research (PGI), Chandigarh
9. SAS Nagar Population Based Cancer Registry Report: 2013 – Tata Memorial Center, Mumbai and Post Graduate Institute of Medical Education and Research (PGI), Chandigarh
10. Mansa Population Based Cancer Registry Report: 2013 – Tata Memorial Center, Mumbai and Post Graduate Institute of Medical Education and Research (PGI), Chandigarh.
11. Report of government of Punjab State wide door to door campaign cancer awareness and symptom based early detection (2013): NRHM Department of Health and Family Welfare, Punjab.
12. Dr. MA Bashar (2015): MD Thesis “ Quality Assesmmnet of Four New Population Based Cancer Registries in Chandigarh and Punjab”: PGIMER, Chandigarh
13. Official website of Department of Health and Family Welfare, Government of Punjab (www.pbhealth.gov.in).

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19. Annexure

Other activities of the Cancer Registry

CME on early detection of Cancer (6th April 2013)

CME programme for the medical officers from the primary health centers of Sangrur and Mansa district was organized by Tata Memorial Centre at Sangrur to educate the medical officers about the early detection of cancer. In the CME, a lecture on importance of the cancer registration was given. The medical officers have agreed to provide full co-operation to the cancer registration process.



Medical officer from Sangrur and Mansa districts participated in the CME

Workshop on Cancer Registration and Cancer Control (10th – 13th October 2013)

'Workshop on Cancer Registration and Cancer Control' was organized by Population Based Cancer Registries Chandigarh, SAS Nagar, Sangrur and Mansa was held at Bhargava Auditorium of PGIMER on 10th to 13th October, 2013. The Chief Minister of Punjab, S Parkash Singh Badal was the Chief Guest of the function.

In his speech, the chief guest appreciated the efforts made by the collaborating institutes (TMC, Mumbai and PGIMER, Chandigarh) in executing the cancer control activities. National and international faculties conducted the lectures and the practical session. More than 50 participants from Punjab and other states of India participated.

Inaugural Function: Lighting ceremony by S. Parkash Singh Badal, Honorable Chief Minister of Punjab – Workshop on Cancer Registration and Cancer Control



Cancer Awareness Programme

The cancer registry has organized the cancer awareness programme on cancer and its effect on the health. In this programme around 200 girls from the age 14 to 16 participated. This activity was helpful in raising the cancer awareness about breast, cervical, mouth and oesophagus cancer.

Cancer Awareness programme in the Government Girls Sen. Sec. School, Dhuri (Sangrur)

