

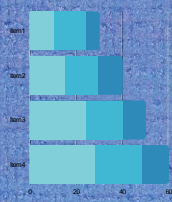
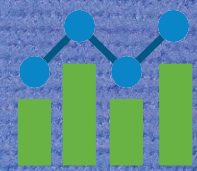
# *Hospital Cancer Registry Report*

2015-2017



**NATIONAL INSTITUTE OF  
CANCER RESEARCH & HOSPITAL (NICRH)**





**HOSPITAL CANCER REGISTRY**  
National Institute of Cancer Research & Hospital

**ANNUAL REPORT  
2005**

Directorate General of Health Services  
Ministry of Health and Family Welfare  
Supported by : World Health Organization

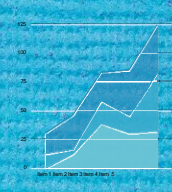
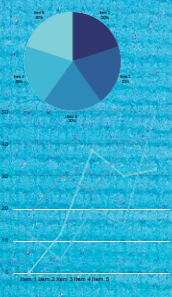
**Cancer Registry Report**  
National Institute of Cancer Research and Hospital  
2005-2007

World Health Organization  
Country Office for Bangladesh

**Cancer Registry Report**  
2008-2010

**Hospital-based Cancer Registry Report**  
2014

National Institute of Cancer Research & Hospital  
Mohakhali, Dhaka-1212





# **Cancer Registry Report**

## **2015-2017**



**NATIONAL INSTITUTE OF CANCER RESEARCH & HOSPITAL (NICRH)**

**DEPARTMENT OF CANCER EPIDEMIOLOGY**

**[www.nicrh.gov.bd](http://www.nicrh.gov.bd)**

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2015-2017

National Institute of cancer Research & Hospital (NICRH)

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**Director cum Professor of Radiotherapy**  
National Institute of cancer Research &  
Hospital (NICRH)

### *Message from the Director*

It is a matter of great pleasure that after sometimes a new report of hospital cancer registry of NICRH is finally published. This is the combined report for the year 2015 to 2017. I knew that despite many shortcomings the department of Cancer Epidemiology is maintaining a cancer registry form 2005 which is praiseworthy.

To combat cancer properly the role of cancer registry is crucial. The real scenario of any disease can only be known through concerned disease registry. There are mainly two types of cancer registry 1) Population Based Cancer Registry (PBCR) and 2) Hospital Based Cancer Registry (HBCR). The first type is most important to know the distribution of the disease in the community. On the other hand, second type of registry is mainly used to manage the hospital resources efficiently for the betterment of the cancer patients in a particular cancer hospital. Still we are lacking a PBCR so the HBCR of NICRH is the only available reliable source in understanding the cancer trends as most of the cancer patients of Bangladesh visit NICRH for receiving cancer treatment.

It is the most basic form of cancer registry. I believe in recent future the department will be able to bring out a complete package of cancer registry encompassing all related variables.

I will not miss the opportunity to thank the entire team of this registry who took immense pressure to compile such report despite the COVID-19 pandemic situation.

**Professor (Dr.) Qazi Mushtaq Hussain**  
Director cum Professor of Radiotherapy



**Associate Professor and Head**  
Department of Cancer Epidemiology  
National Institute of Cancer Research and Hospital

## *Preface*

I express my heartiest thanks and gratitude to the policymakers and our senior oncologists who worked on the project proposal of establishment of the initial fifty-bedded cancer hospital, in the 80s of the 20th century, for their visionary step to include the department of cancer epidemiology since its inception. In course of time, this small but country's only specialized cancer centre turned into a 300-bedded comprehensive National Institute of Cancer Research and Hospital (NICRH) in phases.

Oncology itself is a relatively newer area of healthcare in our country. Its different branches and super-specialties took decades to develop here.

Actual functioning of the Department of Cancer Epidemiology at NICRH started in 2003 after the first regular appointment of the undersigned as a faculty here. Cancer registry was introduced, first time in Bangladesh, with the development of hospital-based cancer registry at NICRH in 2004 by this department with support from World Health Organization. A cancer registration form was developed through several workshops keeping international guidelines with some modifications as per our social context.

The first report was published for the year 2005 followed by compiled report 2005-2007, 2008-2010, 2011-2013 (draft), HBCR Report 2014 was uploaded on DGHS website.

Initiatives were taken to expand HBCR at the government medical college hospitals in 2007, but the outcome was not satisfactory for some constraints.

Cancer registry is an organization for systemic collection, storage, analysis, interpretation of data on persons with cancer. It is an essential part of cancer control to produce statistics on the occurrence of cancer and to provide a framework for assessing and controlling the impact of cancer on the community. There are two main types of cancer registries: hospital-based cancer registry (HBCR) and population-based cancer registry (PBCR).

Hospital based cancer registry is concerned with the recording of data on cancer patients seen in a particular hospital. Main purpose is to contribute to patient care by providing readily accessible information on subjects with care, the treatment they received and its result. Data used mainly for administrative purpose and for reviewing clinical performance and to certain extent for epidemiological purposes.

But it can not provide measure of occurrence (e.g. incidence, mortality rates) of cancer in a defined population. Population-based cancer registry collect data on all new cases of cancer occurring in a well-defined population. Main objective is to produce statistics on the occurrence of cancer and to provide a framework for assessing and controlling the impact of cancer in the community.

Every country should have a National Cancer Control Strategy and Plan of Action to reduce mortality and morbidity from cancer effectively. National Cancer Registry Program and National Cancer Screening Program are two essential components of it. We are still lacking these essential strategy, plan and programs.

The government is kind enough to allocate budget for strengthening and expansion of treatment facilities and prevention programs to the general people. NICRH has been upgraded in phases. A visionary project is now in implementation phase for establishment of eight 100-bedded multidisciplinary comprehensive cancer centres in eight administrative divisions of the country. After completion of this projects, these centres will work as hubs for all cancer control activities including hospital-based and population-based cancer registries, integrated community-based organized cancer screening programs, modern treatment and palliative care, and mass cancer awareness programs.

Now it is the responsibility of us, the specialists and professionals concerned, to help developing appropriate national strategies, plan of actions and programs.

Department of Cancer Epidemiology, NICRH confirms it's firm determination and dedication to serve it's job and responsibilities in this regards.

I like to express, on behalf of our department, thanks and gratitude to the faculties and doctors of concerned departments for their cooperation to collect data.

Thanks to Professor (Dr.) Qazi Mushtaq Hussain, Director of NICRH for his keen interest in publishing this compiled report. I am also thankful to BOTS Pvt. Limited & Renata Limited for extending support to publish this report.

Associate Professors, Dr. Md. Johirul Islam and Dr. Md. Mostafa Kamal, Research Assistant Dr. Nousheen Laila and all other colleagues in our department have been working hard to run the registry. Dr. Johir took the pain to analyze data and writing report. I am grateful to all of them.

From January 2021, we will include treatment and follow up data in our registry. Both institutional and departmental reports will be published together in upcoming years.

I hope, Ministry of Health and Family Welfare, Directorate General of Health Services, Development Partners will come forward to scale up the activities to strengthen and expand cancer registries, hospital and population-based, in Bangladesh.



**Dr. Md. Habibullah Talukder**

Associate Professor and Head

Department of Cancer Epidemiology

National Institute of Cancer Research and Hospital

## *Contributors*

- **Dr. Md. Habibullah Talukder**  
Associate Professor and Head
- **Dr. Md. Johirul Islam**  
Associate Professor
- **Dr. Md. Mostafa Kamal**  
Associate Professor
- **Dr. Md. Shihabuddin**  
Research Assistant
- **Dr. Noushin Laila**  
Research Assistant

## *Supporting Staff*

- **Shirin Sultana**  
Computer Operator
- **S. M. Ashiqur Rahman**  
Data Entry Operator
- **Md. Almas Uddin**  
Record Keeper
- **Md. Shafiqul Islam**  
Interviewer
- **Md. Rakibuddin**  
Office Assistant cum Computer Operator
- **Md. Kamrul Islam**  
Office Assistant cum Computer Operator
- **Ayesha Khatun**  
Record Supplier



# Cancer Registry Report

## 2015-2017

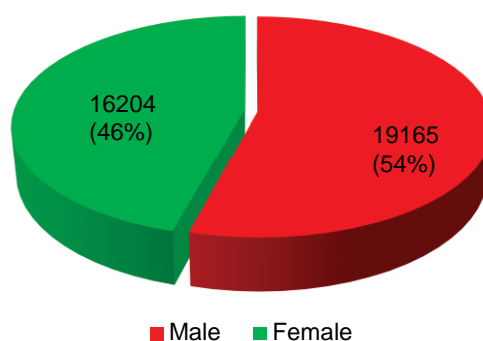
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## Cancer Registry Report 2015 - 2017

### At a glance

First annual report of Hospital Based Cancer Registry (HBCR) for the year 2005 was published in 2006. In December 2009 second report for the year 2005-2007 was published. In December 2013 the third report for the year 2008-2010 was published. In January 2014 a draft report for the year 2011-2013 was published. In December 2015 the report for the year 2014 was published as e-book and uploaded to the website of DGHS. This is the combined report for the year 2015 to 2017. From January 2015 to December 2017 a total of 76543 new patients attended the outpatient department of NICRH, of them 35369 had confirmed or provisional diagnosis of cancer and they were included in the final analysis.



**Figure 1:** Distribution of the cancer patients by gender

**Table I: Top 10 cancer in both sexes (2015-2017)**

Top 10 cancers	Frequency	Percentage
Lung	5887	16.6
Breast	4998	14.1
Cervix	2719	7.7
Oesophagus	1582	4.5
Stomach	1366	3.9
Liver	1224	3.5
Lymphoma	1177	3.3
Rectum	1054	3.0
Cheek /buccal mucosa	884	2.5
Gall bladder	485	1.4

**Table II: Top 10 cancer in male (2015-2017)**

<b>Top 10 cancers</b>	<b>Frequency</b>	<b>Percentage</b>
Lung	5005	26.1
Oesophagus	2679	14.0
Stomach	1101	5.7
Liver	982	5.1
Lymphoma	509	2.7
Rectum	637	3.3
Bladder	785	4.1
Tongue	396	2.1
Larynx	418	2.2
Blood	112	0.6

**Table III: Top 10 cancer in female (2015-2017)**

<b>Top 10 cancers</b>	<b>Frequency</b>	<b>Percentage</b>
Breast	4930	30.4
Cervix	2703	16.7
Lung	882	5.4
Rectum	608	3.8
Cheek /buccal mucosa	517	3.2
Oesophagus	481	3.0
Gall bladder	397	2.5
Stomach	384	2.4
Liver	365	2.3
Lymphoma	343	2.1



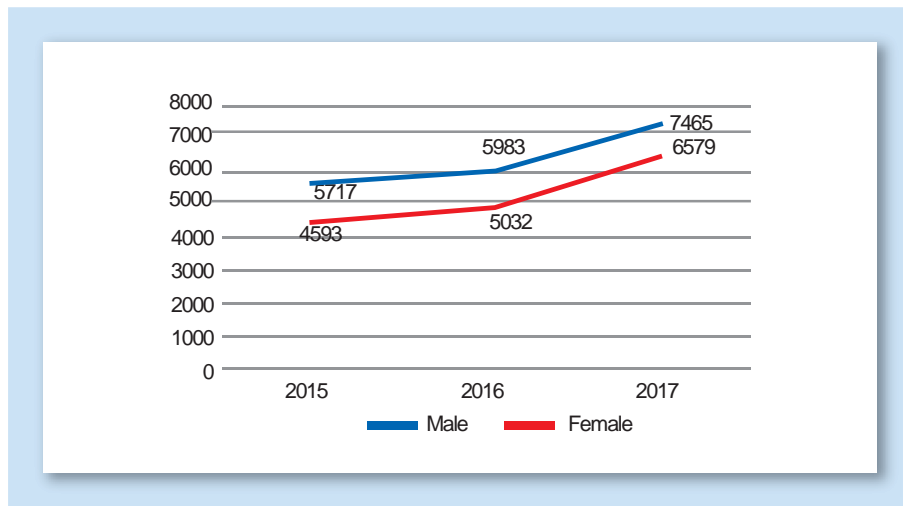


Figure 2: Trend of cancer patients in 2015-2017

# **Cancer Registry Report 2015**

In 2015 a total of 22108 patients attended the Outpatient Department of NICRH; of them 10310 (46.63%) patients had either confirmed or provisional diagnosis of some sorts of cancer and included in this report. The rest were excluded as they had no medical records with them.

**Demography:**

Majorities (5717, 55.5%) of the patients were male and the rest 4593 (45.5%) patients were female giving rise to a male female ratio of 1.2:1. Mean age of the patients was 50.33 years with  $SD \pm 15.77$  which ranged from 1 to 100 years. Among the all patients 94% (9691) were Muslims & 89.7% (9248) were married. A huge number of patients (3914) were illiterate & about 43% patients (4423) had at least primary level education. Agricultural activities were main profession of men (3112/5717) while majority of female (4263/4593) were housewives.

**Systemwise distribution:**

Cancer of the respiratory system and intrathoracic organ the top position (2321, 22.5%) followed by GIT (1942, 18.8%), breast (1374, 13.3%), lip, oral cavity and pharynx (1037, 10.1%) and female genital organ cancers (1136, 10%).

**Leading sites:**

Like previous registry lung was the main leading site of cancers in both sexes (1869, 18.1%). Breast came up with 2<sup>nd</sup> position (1372, 13.3%), cervix (799, 7.7%), lymphoma (535, 5.2%), oesophagus (440, 4.3%), stomach (411, 4%), liver (311, 3%), rectum (297, 2.9%), cheek/buccal mucosa (232, 2.3%) and gall bladder (214, 2.1%) occupied the successive places.

Lung cancer was the leading cancer in male patients (1598, 28%), lymphoma (373, 6.5%), oesophagus (314, 5.5%), stomach (304, 5.3%) and liver cancers (223, 3.9%) came next in that order.

Among female carcinoma of the breast lead the tally (1354, 29.9%) followed by cervix (798, 17.4%), lung (271, 5.9%), lymphoma (162, 3.5%) and Cheek/buccal mucosa cancers (133, 2.9%).

**Residential status:**

Majority of the patients attended OPD of NICRH were from Dhaka division (3608, 35%) and next from Chittagong division (2261, 21.9%). The other divisional representations were as follows: Khulna (1117, 10.8%), Barishal (1002, 9.7%), Mymensingh (856, 8.3%), Rajshahi (755, 7.3%), Rangpur (456, 4.4%) and Sylhet (255, 2.5%).

**Smoking habit:**

About 75.8% (4270) male cancer patients were ever smoker and 37.5% (2112) were current smoker. Around 3% (134) female patients were ever smoker. About 32% (1462) female had habit of chewing tobacco and 28.8% (1622) male were habituated with chewing tobacco.

**Method of diagnosis:**

A total number of 7291 (70.7%) patients came to this hospital with confirmed histopathological diagnosis, 2051 (19.9%) patients had cytopathologically confirmed diagnosis. 8.3% patients (851) reported suspected diagnosis based on radiological evidences and 117 (1.1%) patients were only clinically diagnosed as cancer patients.

**Paediatric cancer:**

Paediatric cancer patients (0-15) were small in numbers. Only 290 (2.8%) paediatric patients reported at OPD during the period. Of them 162 (55.9%) were male child & 128 (44.1%) were female child. Lymphoma was the



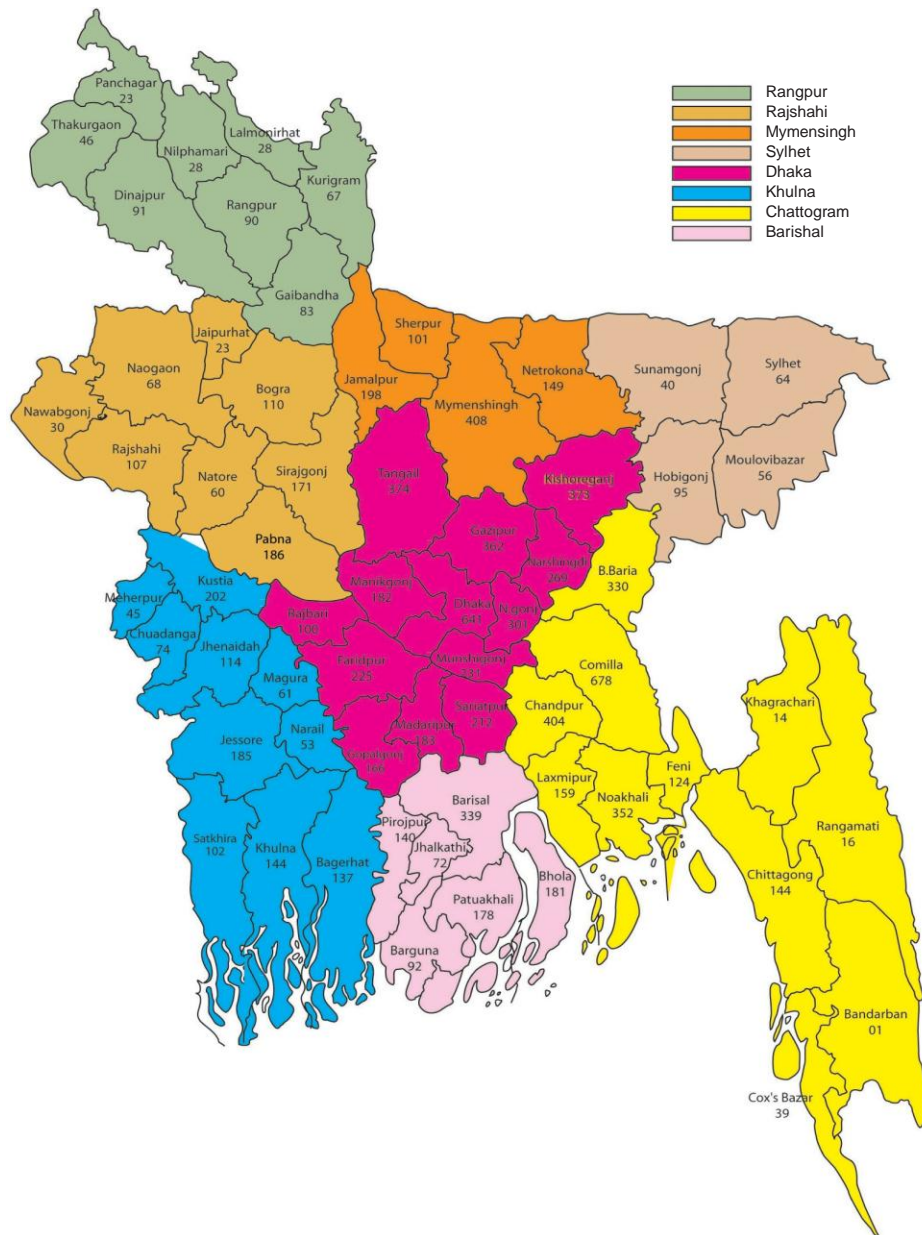
leading cause of cancer in this group (15.5%) followed by leukaemia (14.8%), cancer of the bones & articular cartilages (11%), brain cancer (10%) and retinoblastomas (10%).

#### Geriatric cancer:

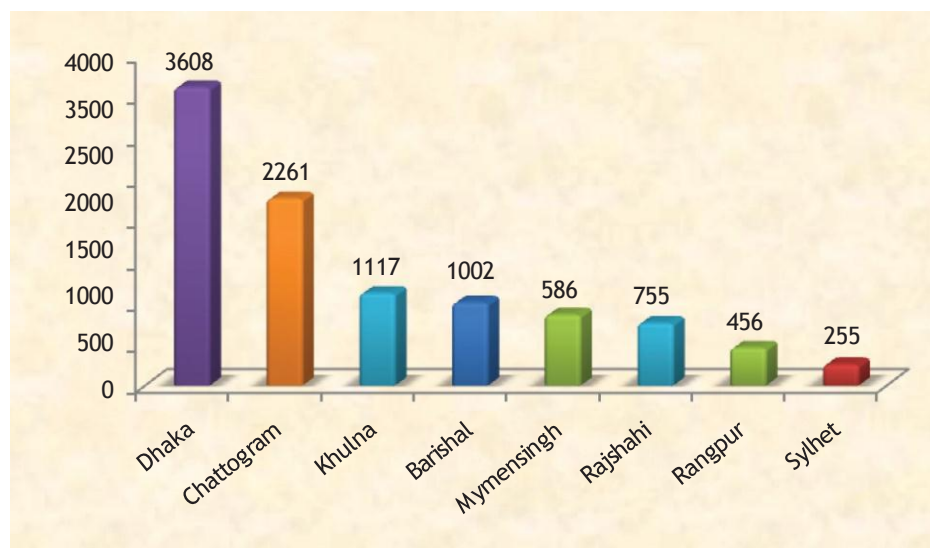
Patients of 65 years and above were considered as geriatric patients. About 20.6% (2123) of all cancer patients were from this age group. Most of them i.e. 1640 were male (77.2%). Only 22.8 % were female.

#### Treatment received before attending NICRH:

Most of the patients (77%, 7939) did not receive any kind of cancer treatment before attending NICRH, only 23% (2371) got some treatment before.



**Fig-1:** Map diagram showing the distribution of the patients (2015)



**Fig.-2:** Distribution of the patients by division (2015)

**Table-1: Tumour board (main) decision regarding treatment (n=7244)**

Types of treatment	Frequency	Percentage
Chemotherapy (C)	2436	33.6
Radiotherapy (R)	2718	37.5
R+C	1581	21.8
Surgery (S)	138	1.9
S+C	55	0.8
S+R	23	0.3
S+R+C	16	0.2
Hormone therapy	43	0.6
Palliative	81	1.1
Slide review	3	0.0
Referred	93	1.3
Further investigations	57	0.8
Total	7244	100.0

**Table2: Tumour board (mini) decision regarding treatment (n=6595)**

Types of treatment	Frequency	Percentage
Chemotherapy (C)	2067	31.3
Radiotherapy (R)	2393	36.3
R+C	1759	26.7
Surgery (S)	50	0.8
S+C	52	0.8
S+R	31	0.5
S+R+C	39	0.6
Hormone therapy	17	0.3
Palliative	60	0.9
Slide review	27	0.4
Referred	49	0.7
Further investigations	51	0.8
Total	6595	100.0

**A. Systemwise pattern:****Table-3: Systemwise distribution of the cancer**

ICD-O	Primary site	Frequency	Percent
C00-C14	Lip, oral cavity and pharynx	1037	10.1
C15-C26	Digestive organ	1942	18.8
C30-C39	Respiratory system and intrathoracic organ	2321	22.5
C40-C41	Bones, joints and articular cartilage	148	1.4
C42	Haemopoietic and reticuloendothelial systems	218	2.1
C44	Skin	55	.5
C48	Retroperitoneum and peritoneum	17	.2
C49	Connective, subcutaneous and other soft tissues	222	2.2
C50	Breast	1374	13.3
C51-C58	Female genital organs	1036	10.0
C60-C63	Male genital organs	145	1.4
C64-C68	Urinary tract	259	2.5
C69-C72	Eye, brain and other parts of CNS	221	2.1
C73-C75	Thyroid and other endocrine glands	113	1.1
C76	Other ill defined sites	35	.3
C77	Lymph nodes	1058	10.3
C80	Unknown primary site	109	1.1
	Total	10310	100.0



## B. Demography:

**Table-5: Demography characteristics of the cancer patients**

Variables	Male (%) (n=5717)	Female (%) (n=4593)	Total (%) (n=10310)
<i>Religion</i>			
Islam	5390 (94.3)	4301 (93.6)	9691 (94.0)
Hinduism	313 (5.5)	269 (5.9)	582 (5.6)
Christianity	4 (0.1)	14(0.3)	18 (0.2)
Buddhism	10 (0.2)	9 (0.2)	19 (0.2)
<i>Marital status</i>			
Never married	314 (5.5)	213 (4.6)	527 (5.1)
Married	5396 (94.4)	3852 (83.9)	9248 (89.7)
Widowed	5 (0.1)	501 (10.9)	506 (4.9)
Divorced	2 (0.0)	27 (0.6)	29 (0.3)
<i>Education</i>			
Not applicable	68 (1.2)	48 (1.0)	116 (1.1)
Illiterate	1914 (33.5)	2000 (43.5)	3914 (38.0)
Primary	2579 (45.1)	1844 (40.1)	4423 (42.9)
Secondary	555 (9.7)	370 (8.1)	925 (9.0)
Higher secondary	278 (4.9)	177 (3.9)	455 (4.4)
Graduate & above	323 (5.6)	154 (3.4)	477 (4.6)
<i>Occupation</i>			
Not applicable	69 (1.2)	45 (1.0)	114 (1.1)
Service	812 (14.2)	121 (2.6)	933 (9.0)
Business	904 (15.8)	8 (0.2)	912 (8.8)
Agriculture	3100 (54.2)	12 (0.3)	3112 (30.2)
Day labourer	262 (4.6)	2(0.0)	264 (2.6)
House wife	-	4263 (92.8)	4263 (41.3)
Retired/ aged	274 (4.8)	17 (0.4)	291 (2.8)
Industrial worker	59(1.0)	1 (0.0)	60 (0.6)
Student	207 (3.6)	146 (3.2)	353 (3.4)
Others	3 (0.1)	5 (0.1)	8 (0.1)



### C. Leading sites of cancer:

**Table 6: Top 10 malignancies**

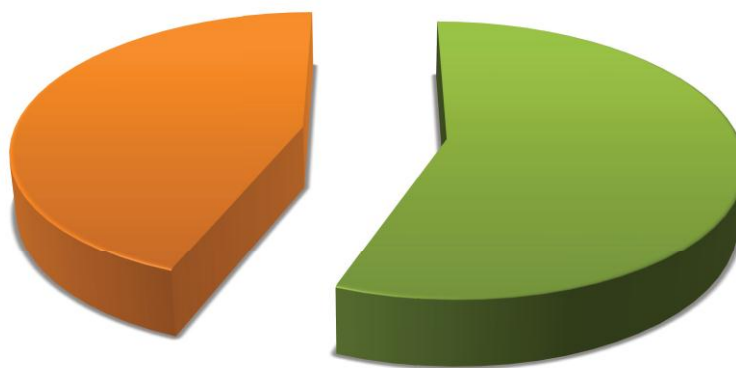
Sl. No.	Site	Number	Percentage
1	Lung	1869	18.1
2	Breast	1372	13.3
4	Cervix	799	7.7
3	Lymphoma	535	5.2
5	Oesophagus	440	4.3
6	Stomach	411	4.0
7	Liver	311	3.0
8	Rectum	297	2.9
9	Cheek /buccal mucosa	232	2.3
10	Gall blader	214	2.1

**Table 7: Top 10 cancers in male**

Sl. no.	Site	Number	Percentage
1	Lung	1598	28.0
2	Lymphoma	373	6.5
3	Oesophagus	314	5.5
4	Stomach	304	5.3
5	Liver	223	3.9
6	Rectum	184	3.2
7	Tongue	136	2.4
8	Larynx	121	2.1
9	Blood	115	2.0
10	Bladder	112	2.0

**Table 8: Top 10 cancers in female**

Sl. no.	Site	Number	Percentage
1	Breast	1354	29.5
2	Cervix	799	17.4
3	Lung	271	5.9
4	Lymphoma	162	3.5
5	Cheek /buccal mucosa	133	2.9
6	Oesophagus	126	2.7
7	Gall blader	123	2.7
8	Rectum	113	2.5
9	Stomach	107	2.3
10	Liver	88	1.9

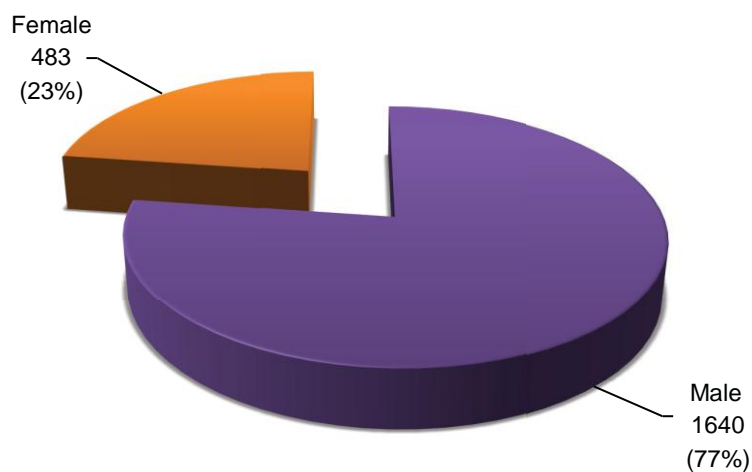
**D. Special age group cancer****Paediatric cancer (0-15 years)****Fig. 3: Paediatric cancers in 2015 (n=290)**

**Table 9: Site of paediatric cancer (N=290)**

Sl. No.	Site of cancer	Frequency	Percent
1.	LN	45	15.5
2.	Blood	43	14.8
3.	Bones & articular cartilages	32	11.0
4.	Brain	29	10.0
5.	Connective tissue	20	6.9
6.	Eye	18	6.2
7.	Kidney	13	4.5
8.	Eye ball	11	3.8
9.	Bone marrow	8	2.8
10.	Breast	5	1.7

**Table 10: Morphology of paediatric cancer (N=290)**

Sl. No.	Morphology	Frequency	Percent
1.	Acute Lymphoblastic Leukemia	38	13.1
2.	Sq cell ca	36	12.4
3.	Retinoblastoma	30	10.3
4.	Osteosarcoma	25	8.6
5.	NHL	25	8.6
6.	Ewing's sarcoma	22	7.6
7.	Hodgkins' Lymphoma	14	4.8
8.	Astrocytoma	13	4.5
9.	Acute Myeloid/Grululocytic Leukemia	11	3.8
10.	Nephroblastoma	9	3.1

Geriatric cancer ( $\geq 65$  years)

**Fig 4:** Geriatric cancers in 2015 (n=2123)

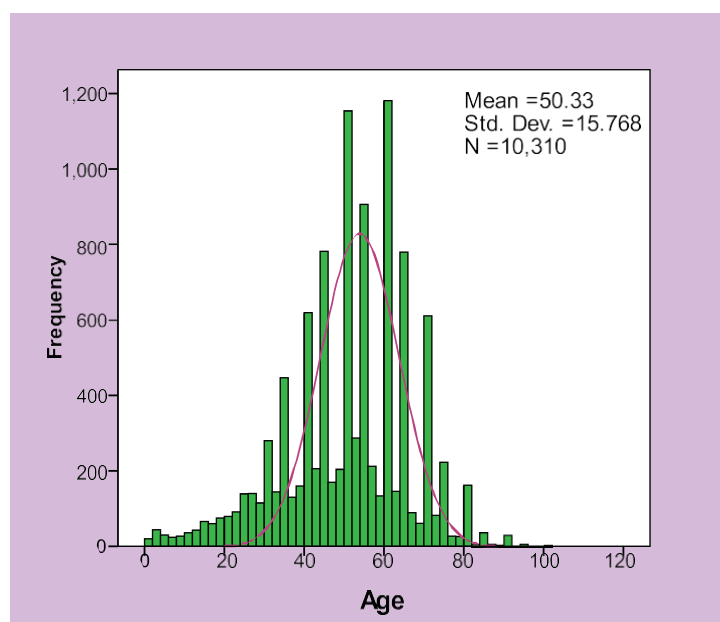
**Table 11:** Primary site of geriatric cancers (n=2123)

Sl. No.	Primary site of cancer	Frequency	Percent
1.	Lung	684	32.2
2.	LN	144	6.8
3.	Oesophagus	131	6.2
4.	LN	94	4.4
5.	Stomach	91	4.3
6.	Liver	77	3.6
7.	Cervix	68	3.2
8.	Bladder	59	2.8
9.	Breast	57	2.7
10.	Gall blader	56	2.6



**Table 12: Morphology of geriatric cancer (N=2123)**

Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	1063	50.1
2.	Adenocarcinoma	466	22.0
3.	Malignant tumour	122	5.7
4.	NHL	89	4.2
5.	Small cell ca	80	3.8
6.	Hepatocellular ca	76	3.6
7.	Duct cell ca	56	2.6
8.	Transitional cell ca	54	2.5
9.	Renal cell ca	18	0.8
10.	Papillary ca	15	0.7

**All sites:****Fig 5: Age distribution of all cancers (2015)**

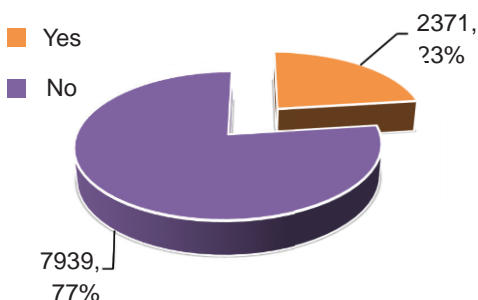


Fig 6: Received treatment outside NICRH

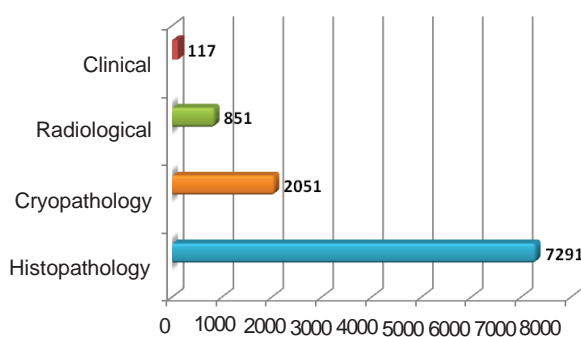


Fig 7: Method of diagnosis

## F. Head & neck cancer

Table 13: Primary site of Head &amp; neck cancer

Primary site of tumour	Sex		Total
	Male	Female	
LIP	7 (1.0)	6 (1.6)	13 (1.3)
Base of the tongue	6 (0.9)	1 (0.3)	7 (0.7)
Tongue	136 (20.3)	59 (16.0)	195 (18.8)
Gum	8 (1.2)	4 (1.1)	12 (1.2)
Floor of the mouth	9 (1.3)	9 (2.4)	18 (1.7)
Hard palate	8 (1.2)	8 (2.2)	16 (1.5)
Soft palate	2 (0.3)	1 (0.3)	3 (0.3)
Uvula	2 (0.3)	1 (0.3)	3 (0.3)
Palate	16 (2.4)	10 (2.7)	26 (2.5)
Cheek /buccal mucosa	99 (14.8)	133 (36.1)	232 (22.4)
Oral cavity/Buccal cavity	27 (4.0)	25 (6.8)	52 (5.0)
Parotid Gland	34 (5.1)	20 (5.4)	54 (5.2)
Sub mandibular/maxillary gland	55 (8.2)	31 (8.4)	86 (8.3)
Sub lingual gland	1 (0.1)	1 (0.3)	2 (0.2)
Tonsillar fossa	12 (1.8)	1 (0.3)	13 (1.3)
Tonsil	60 (9.0)	21 (5.7)	81 (7.8)
Valecula	2 (0.3)	2 (0.5)	4 (0.4)
Branchial cleft	20 (3.0)	3 (0.8)	23 (2.2)
Oropharynx	4 (0.6)	4 (1.1)	8 (0.8)
Nasopharynx	21 (3.1)	7 (1.9)	28 (2.7)
Pyriformsinus/fossa	105 (15.7)	11 (3.0)	116 (11.2)
Cricoid	2 (0.3)	0 (0.0)	2 (0.2)
Aryepiglottic fold	9 (1.3)	1 (0.3)	10 (1.0)
Hypopharynx	2 (0.3)	4 (1.1)	6 (0.6)
Pharynx	20 (3.0)	5 (1.4)	25 (2.4)
Laryngopharynx	2 (0.3)	0 (0.0)	2 (0.2)
Total	669 (100.0)	368 (100.0)	1037 (100.0)

Percentages are given in the parenthesis

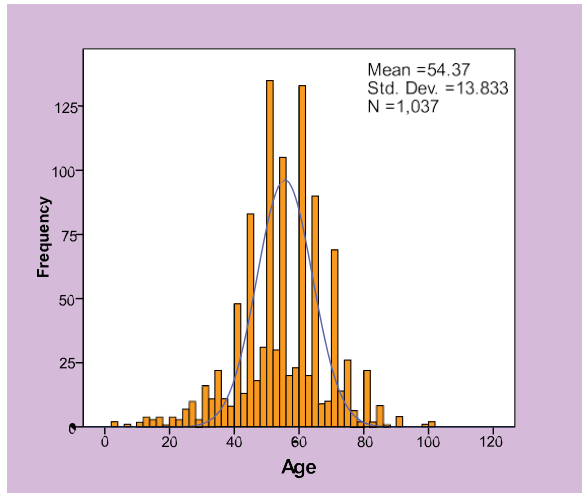


Fig 8: Age distribution of H & N cancers

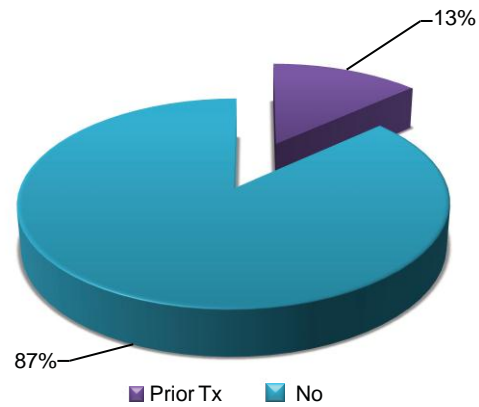


Fig 9: Case referral (N&N cancers)

## G. Respiratory System

Table 14: Respiratory system cancer

Primary site of tumour	Sex		Total
	Male	Female	
Nasal cavity	13 (.7)	10 (2.9)	23 (1.0)
Middle ear , inner ear	8 (.4)	2 (.6)	10 (.4)
Maxillary sinuses	12 (.6)	6 (1.7)	18 (.8)
Ethmoid sinuses	0 (.0)	1 (.3)	1 (.0)
Frontal sinuses	6 (.3)	1 (.3)	7 (.3)
Glottis, Vocal cord	79 (4.0)	6 (1.7)	85 (3.7)
Supraglottis, Epiglottis,	104 (5.3)	10 (2.9)	114 (4.9)
Laryngeal cartilages	1 (.1)	0 (.0)	1 (.0)
Larynx	121 (6.1)	14 (4.0)	135 (5.8)
Bronchous	1 (.1)	0 (.0)	1 (.0)
Lung	1598 (81.0)	271 (78.1)	1869 (80.5)
Mediastinum	7 (.4)	0 (.0)	7 (.3)
Pleura	24 (1.2)	26 (7.5)	50 (2.2)
Total	1974 (100.0)	347 (100.0)	2321 (100.0)

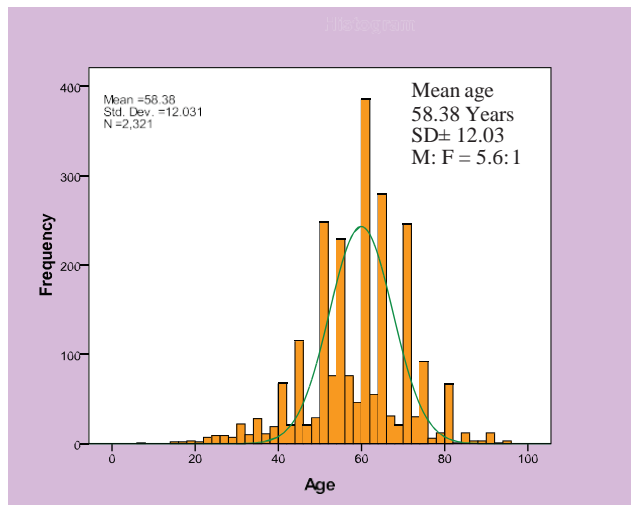


Fig 10: Age distribution of respiratory cancers

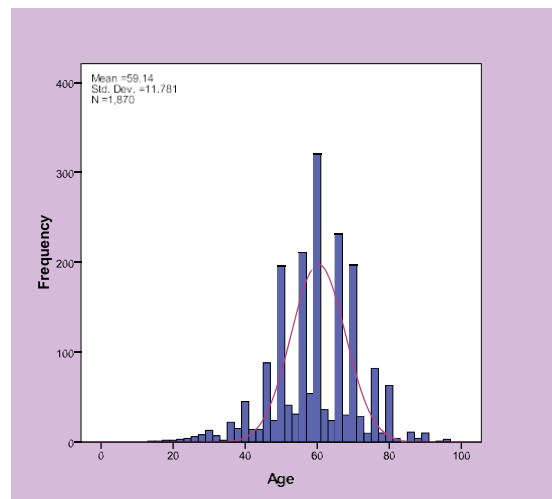


Fig 11: Age group distribution of lung cancer patients

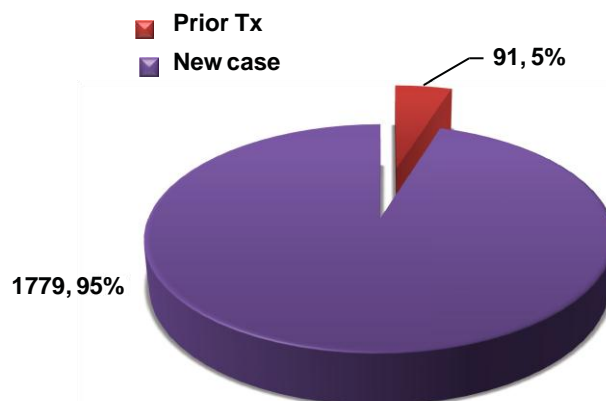


Fig 12: Case Referral (lung cancer)

Table 15: Morphology of lung cancer (N=1870)			
Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	974	52.1
2.	Adenocarcinoma	645	34.5
3.	Small cell ca	209	11.2
4.	Large cell ca	19	1.0
5.	Others	23	1.2
6.	Total	1870	100.0

I. Breast cancer:

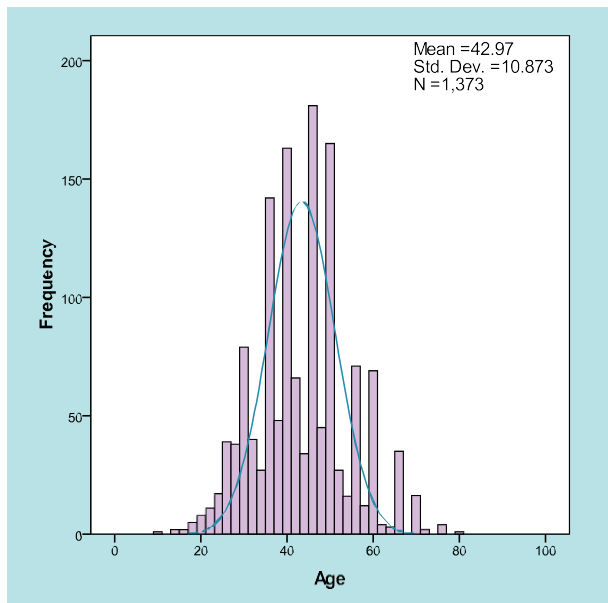


Fig 13: Age group distribution of breast cancer patients

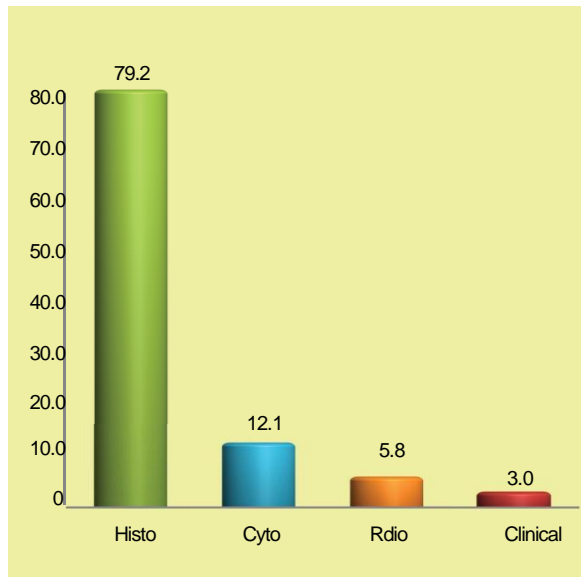


Fig 14: Diagnostic status (n=1373)

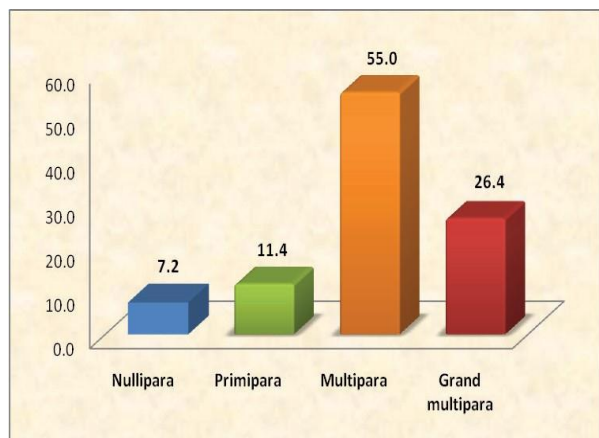


Fig 15: Parity and breast cancer (n=1346)

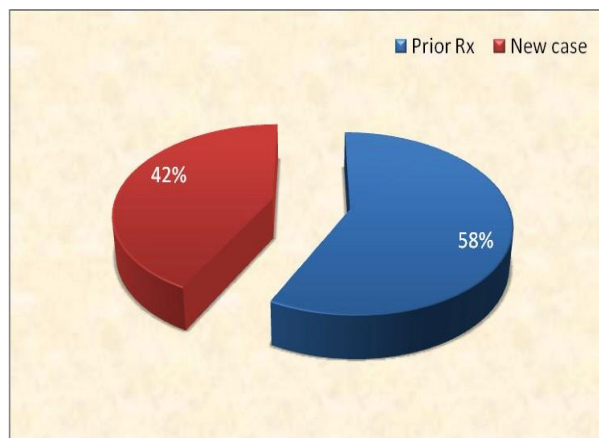
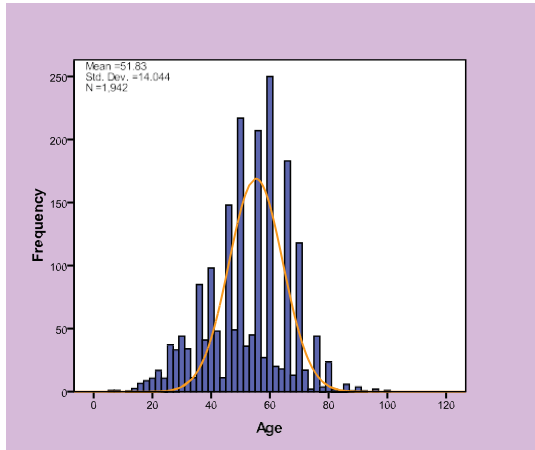


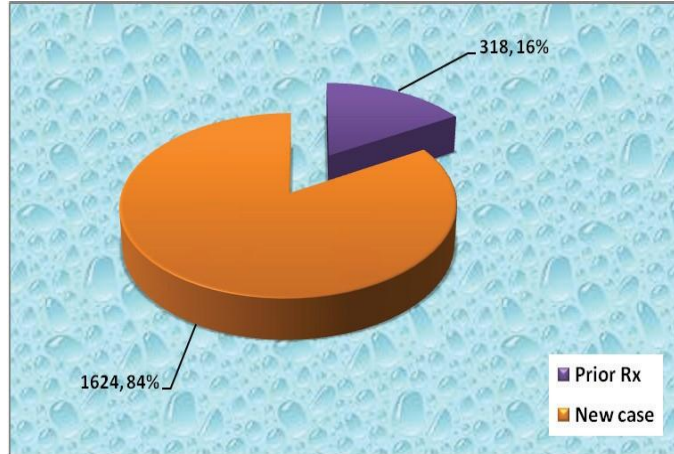
Fig 16: Case referral (Breast cancer)



## J. GIT



**Fig 17: Age group distribution (GIT)**  
Mean age 51.83 years,  $SD \pm 14.01$  years,  $M: F = 1.9:1$ .



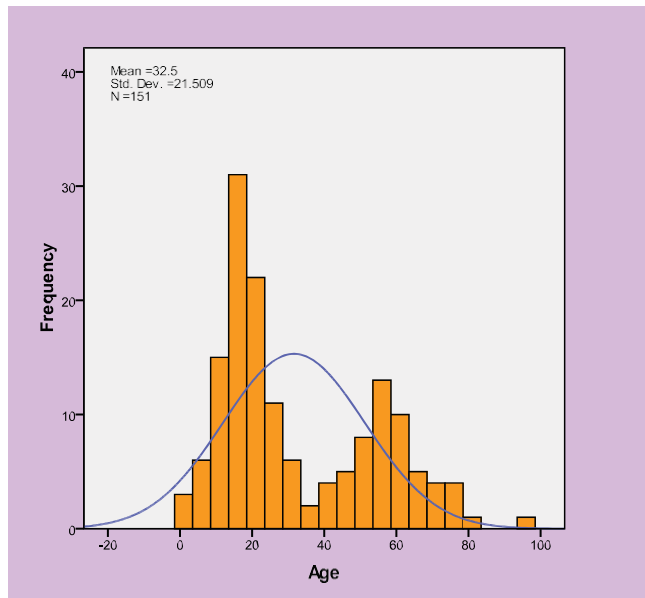
**Fig 18: Case referral (GIT)**

## Primary site of GI cancer

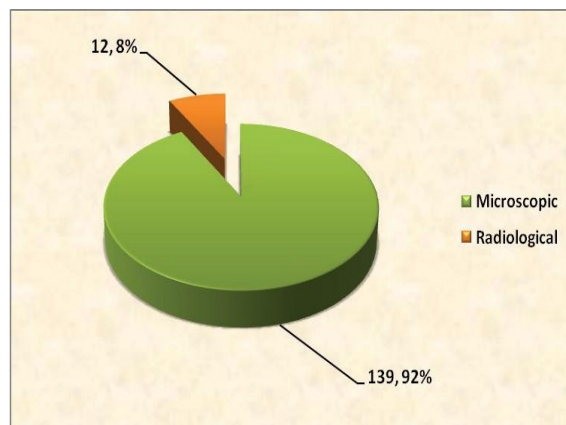
**Table 16: Primary site of GI cancer**

Primary site of tumour	Sex		Total
	Male	Female	
Oesophagus	324 (25.3)	134 (20.3)	458 (23.6)
Gastric antrum	1 (0.1)	3 (0.4)	4 (0.2)
Stomach	304 (23.7)	108 (16.4)	412 (21.2)
Duodenum	0 (0.0)	3 (0.4)	3 (0.1)
Jejunum	2 (0.2)	0 (0.0)	2 (0.1)
Ileum	4 (0.3)	3 (0.4)	7 (0.3)
Cecum	4 (0.3)	2 (0.3)	6 (0.3)
Ascending colon	0 (0.0)	1 (0.1)	1 (0.0)
Hepatic flexure	4 (0.3)	3 (0.4)	7 (0.3)
Sigmoid colon	2 (0.2)	0 (0.0)	2 (0.1)
Colon	93 (7.2)	46 (6.7)	139 (7.1)
Rectum	184 (14.3)	113 (17.1)	297 (15.3)
Anus	0 (0.0)	2 (0.3)	2 (0.1)
Anal canal	10 (0.8)	13 (1.9)	23 (1.2)
Liver	223 (17.4)	88 (13.3)	311 (16.0)
Gall bladder	91 (7.1)	123 (18.6)	214 (11.0)
Ampula of vater	3 (0.2)	1 (0.1)	4 (0.2)
Head of pancreas	5 (0.4)	2 (0.3)	7 (0.3)
Pancreas	23 (1.8)	9 (1.3)	32 (1.6)
Total	1282 (100.0)	660 (100.0)	1942 (100.0)

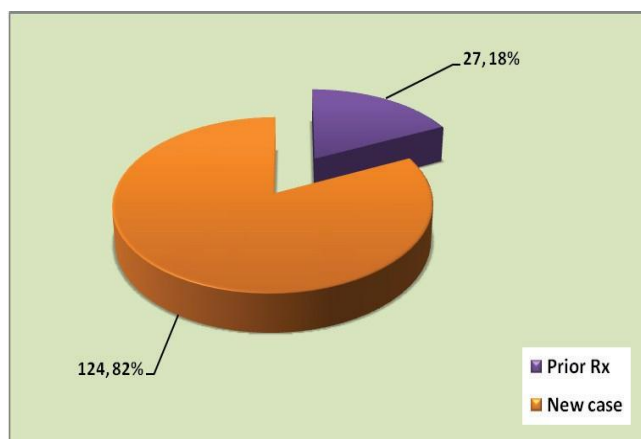
**K. Bone**



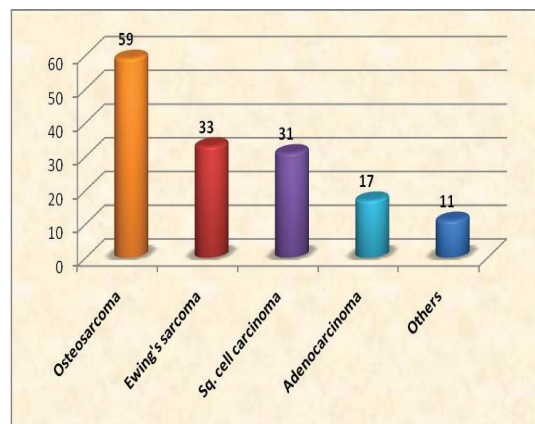
**Fig 19: Age distribution**  
 Mean age 32.5 years, SD± 21.5 years, M: F= 1.7: 1



**Fig 20: Diagnostic status (Bone cancer)**



**Fig 21: Case referral (Bone cancer)**

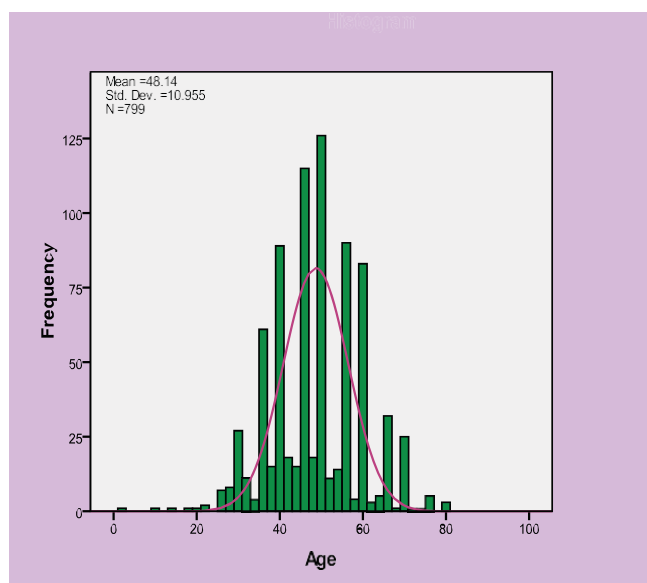


**Fig 22: Histological pattern (Bone Cancer)**

## L. Female genital organs

**Table 17: Cancer of female genital organs**

Site	Frequency	Percent
Cervix	799	77.1
Tubo ovarian & Utero ovarian	77	7.4
Uterus	59	5.7
Ovary	57	5.5
Vagina	21	2.0
Vulva	13	1.3
Adenexa	10	1.0
Total	1036	100.0



**Fig. 23:** Age distribution of cervical cancer patients

**Table 18: Morphology of cervical cancer (N=799)**

Morphology	Frequency	Percentage
Sq cell ca	710	88.9
Adenocarcinoma	81	10.1
Other types	8	1.0
Total	799	100.0

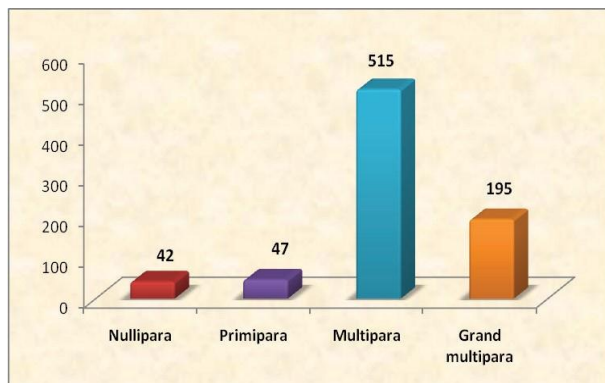


Fig. 24: Parity of Ca Cx

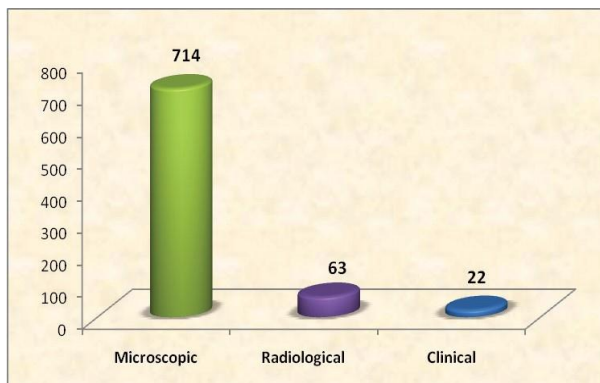


Fig. 25: Diagnostic status (Cx)

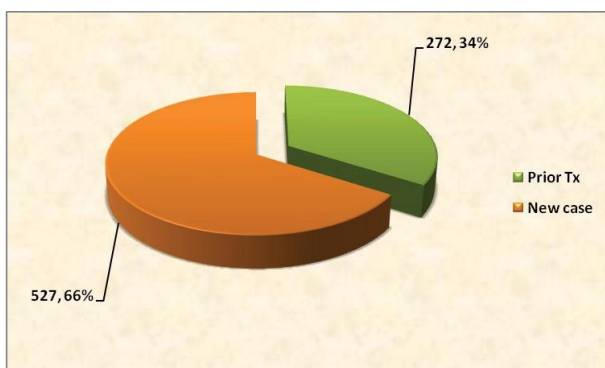


Fig. 26: Case referral (Cx)

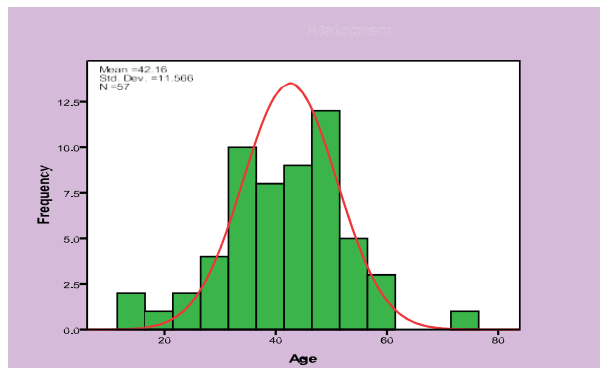


Fig. 27: Age distribution (Ovarian ca)

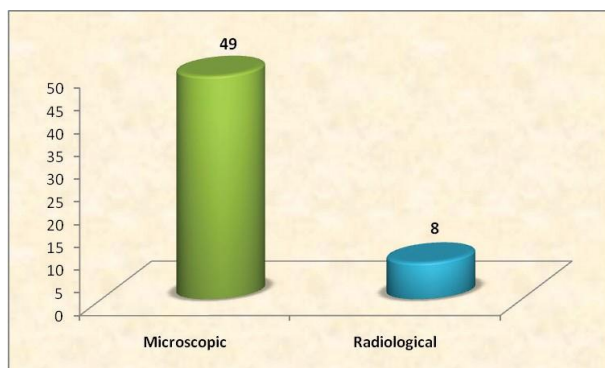


Fig. 28: Diagnostic status (ovarian ca)

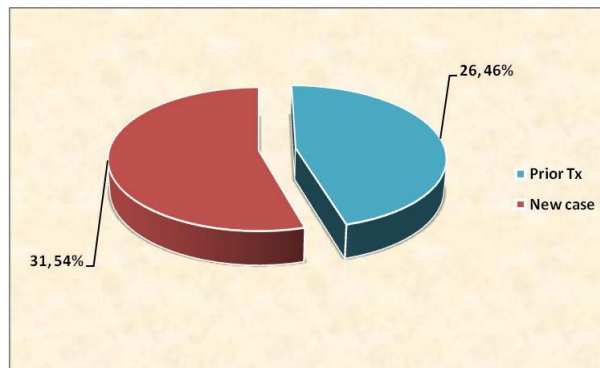


Fig. 29: Case referral (Ovarian cancer)

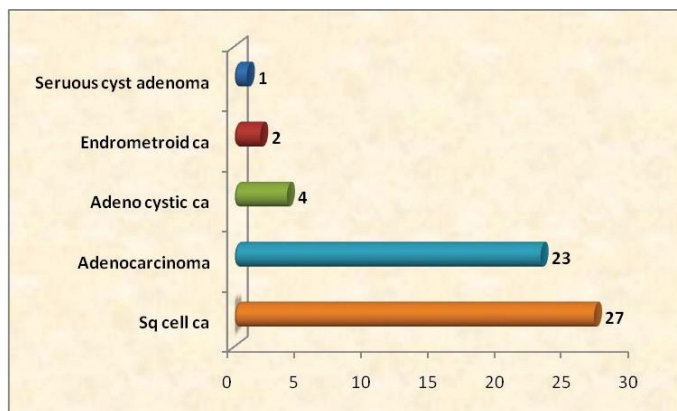


Fig 30: Morphological type (Ovarian ca)

### O. Male genital organs

#### Primary site

Table 19 : Cancers of male genital organs

Site	Number	Percent
Penis	14	9.7
Prostate	91	62.8
Testis	40	27.6
Total	145	100.0

### P. Prostate

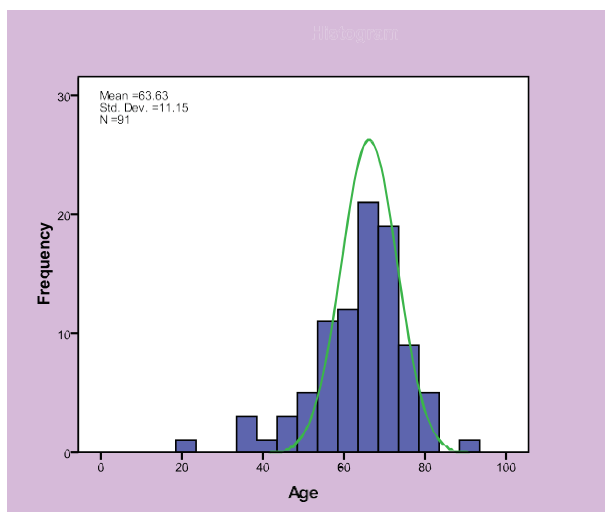


Fig 31 : Age distribution of the patients of prostate cancer

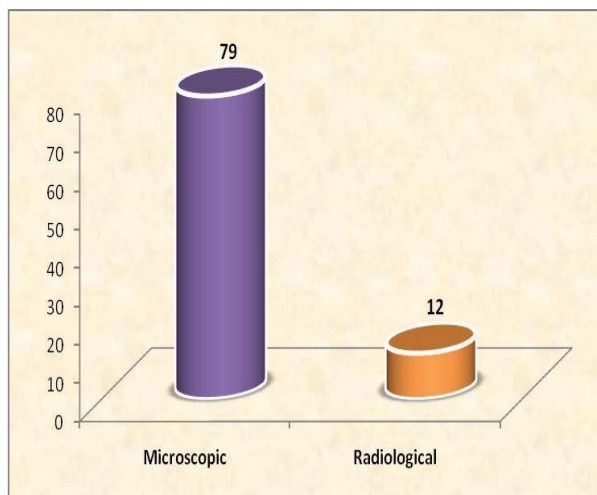


Fig 32: Diagnostic status (prostate)



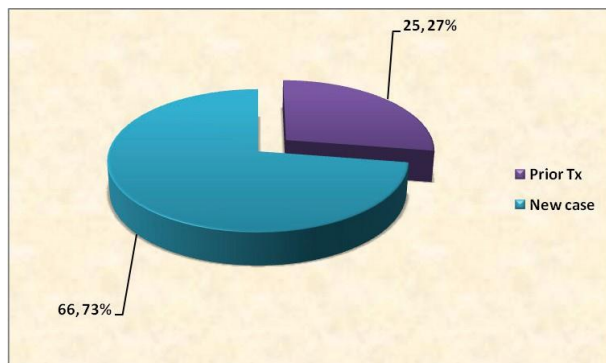


Fig 33: Case referral (prostate ca)

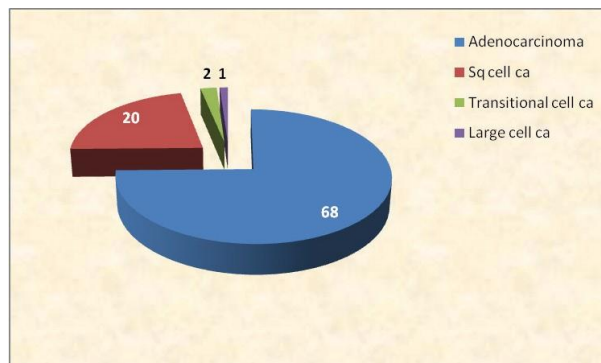


Fig 34: Morphological type (prostate ca)

### Q. Kidney & related organs

Table 20: Cancers of kidney of related organs

Primary site of tumour	Sex		Total
	Male	Female	
Kidney	69 (37.7)	26 (34.2)	95 (36.7)
Renal pelvis	2 (1.1)	0 (0.0)	2 (0.8)
Bladder	112 (61.2)	50 (65.8)	162 (62.5)
Total	183 (100.0)	76 (100.0)	259 (100.0)

### R. Urinary Bladder

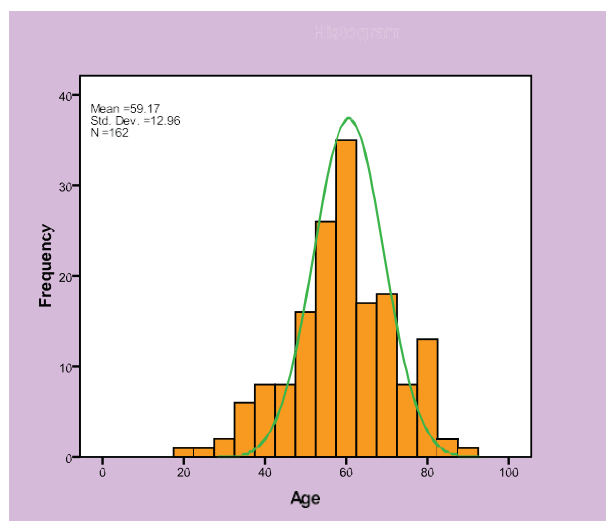


Fig. 35: Age distribution of the patients of Urinary Bladder  
Mean age 59.17 SD± 12.96, M: F= 2.2: 1

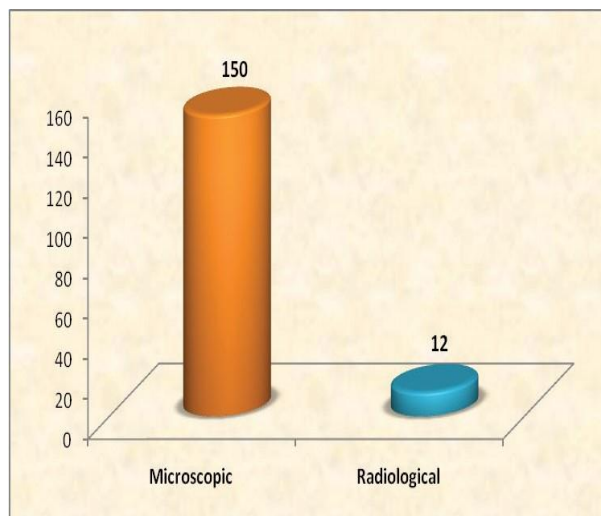
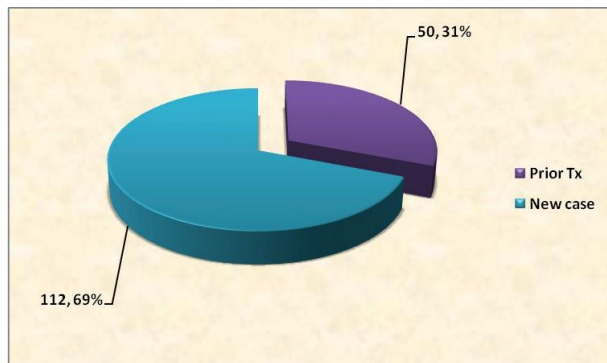
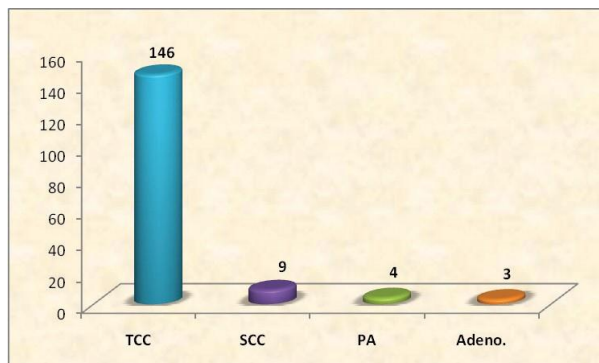


Fig. 36: Diagnostic status (Urinary Bladder ca)



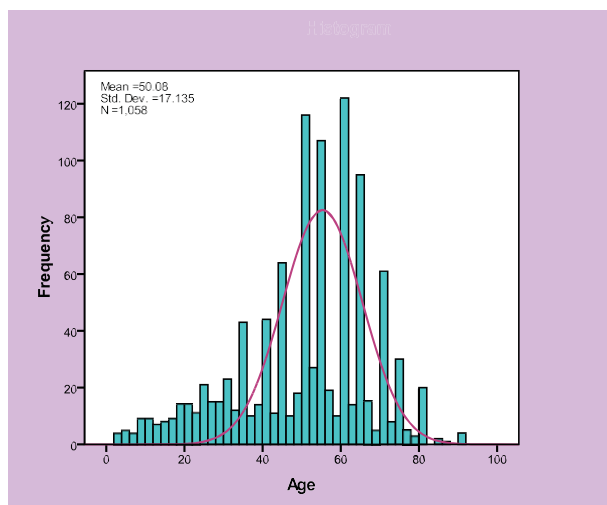
**Fig 37:** Case referral (Urinary Bladder ca)



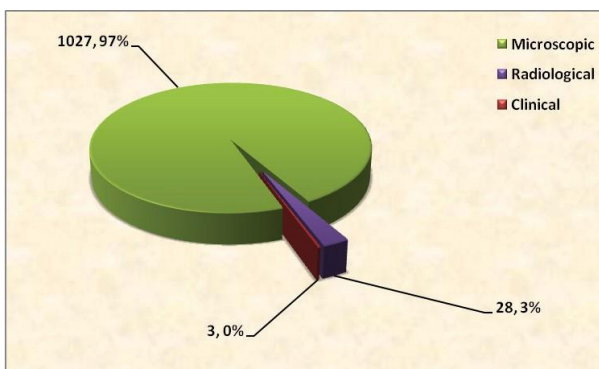
TCC Transitional cell carcinoma; SCC Squamous cell carcinoma; PA Papillary carcinoma; Adeno. Adenocarcinoma

**Fig 38:** Morphological type of Urinary Bladder cancer

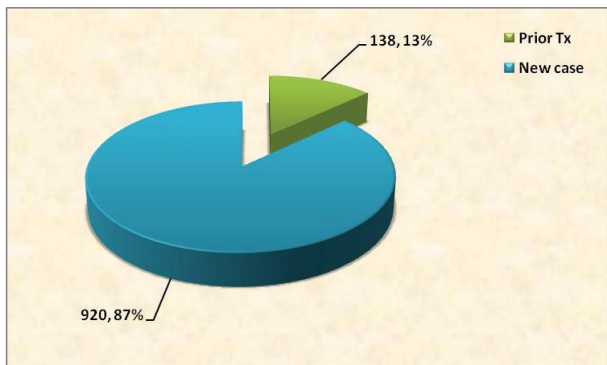
S. Lymphatics & Lymph Node



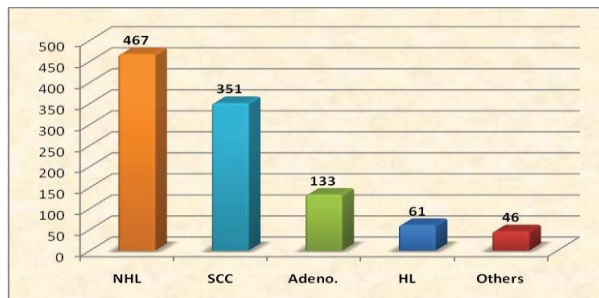
**Fig. 39:** Age distribution (Lymphatics and lymph nodes)  
Mean age 50.08 SD± 17.13 Years M: F= 2.5:1



**Fig. 40:** Diagnostic status (Lymphatics and lymph nodes)



**Fig. 41:** Case referral (Lymphatics and lymph nodes)



NHL Non Hodgekin's Lymphoma; SCC Squamous Cell Carcinoma; Adeno. Adenocarcinoma; HL Hodgekin's Lymphoma

**Fig. 42:** Morphological type (Lymphatics and lymph nodes)

# APPENDICES

### Appendix I : Age-specific distribution of cancer patients, NICRH (2015)

#### A. Male

ICD-O	Primary site of tumour	Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C00	LIP	1	1	1	3	4	5	1	1	17
C01.9	Base of the tongue	4	3	7	9	4	8	2	4	41
C02.4	Lingual tonsil	2	0	7	1	1	2	2	0	15
C02.9	Tongue	1	2	7	11	46	43	29	9	148
C03.9	Gum	0	0	0	4	1	1	2	1	9
C04.9	Floor of the mouth	0	1	4	4	7	3	2	3	24
C05.0	Hard palate	1	3	1	2	4	3	2	2	18
C05.1	Soft palate	0	2	1	3	2	5	1	1	15
C05.9	Palate	0	0	0	2	5	3	2	0	12
C06.0	Cheek /buccal mucosa	2	1	4	15	26	28	26	3	105
C06.9	Oral cavity/Buccal cavity	0	2	1	4	9	7	6	2	31
C07.9	Parotid Gland	2	2	3	4	9	7	4	1	32
C08.0	Sub mandibular/maxillary gland	0	1	1	6	12	15	8	4	47
C09.0	Tonsillar fossa	0	0	0	0	2	3	0	1	6
C09.9	Tonsil	0	0	3	4	22	22	11	6	68
C10.0	Valecula	0	0	0	1	1	2	1	1	6
C10.4	Branchial cleft	0	0	0	0	1	3	1	0	5
C10.9	Oropharynx	0	0	0	0	2	3	0	0	5
C11.9	Nasopharynx	3	4	2	4	7	10	2	0	32
C12.9	Pyriiformsinus/fossa	3	1	1	11	22	30	17	11	96
C13.0	Cricoid	0	0	0	0	0	0	1	0	1
C13.1	Aryepiglotic fold	0	0	0	1	3	8	2	1	15
C13.9	Hypopharynx	0	0	0	0	1	4	3	0	8
C13.9	Laryngopharynx	0	0	0	0	0	3	0	0	3
C14.0	Pharynx	0	0	0	0	5	4	3	2	14
C15.0	Cervical oesophagus	0	1	2	3	4	5	2	1	18
C15.2	Abdominal oesophagus	0	0	0	0	0	0	1	0	1
C15.3	Upper 3rd of oesophagus	0	0	0	1	0	0	0	0	1
C15.4	Middle 3rd of oesophagus	0	0	0	0	1	0	0	0	1
C15.9	Oesophagus	0	0	3	30	56	118	80	34	321
C16.3	Gastric antrum	0	0	0	3	1	0	0	0	4
C16.9	Stomach	1	4	14	42	70	90	56	23	300
C17.0	Duodenum	0	0	0	1	1	0	1	1	4
C17.1	Jejunum	0	0	1	4	1	4	3	0	13
C17.2	Ileum	0	1	1	1	0	1	0	1	5
C18.0	Cecum	0	0	3	2	1	2	0	0	8

## Appendix I : Age-specific distribution of cancer patients, NICRH (2015)

ICD-O	Primary site of tumour	Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C18.2	Ascending colon	0	0	1	0	0	0	1	0	2
C18.3	Hepatic flexure	0	1	0	0	3	2	2	0	8
C18.7	Sigmoid colon	0	0	0	0	2	1	0	0	3
C18.9	Colon	0	6	12	15	22	12	11	2	80
C20.9	Rectum	1	17	29	36	37	28	19	4	171
C21.1	Anal canal	0	0	4	4	4	4	2	0	18
C22.0	Liver	4	6	29	25	70	75	48	18	275
C23.9	Gall bladder	1	1	8	13	24	23	20	7	97
C24.1	Ampula of vater	0	0	0	1	1	0	0	0	2
C25.0	Head of pancrease	0	0	0	1	0	2	0	1	4
C25.9	Pancrease	0	0	1	9	11	3	1	1	26
C26.9	GIT	0	1	0	0	0	0	1	0	2
C30.0	Nasal cavity	0	0	1	3	1	1	0	1	7
C30.1	Middle ear , inner ear	1	0	0	1	0	3	0	1	6
C31.0	Maxillary sinuses	0	1	2	3	2	3	2	0	13
C31.1	Ethmoid sinuses	0	0	0	0	1	0	0	0	1
C31.2	Frontal sinuses	0	0	0	1	0	1	0	0	2
C32.0	Glottis, Vocal cord	0	0	1	5	21	34	14	7	82
C32.1	Supraglottis, Epiglottis,	1	0	1	8	21	31	28	11	101
C32.9	Larynx	0	1	4	6	23	44	23	8	109
C34.0	Bronchous	1	0	0	0	0	1	0	1	3
C34.1	Upper lobe of lung	2	0	0	0	1	1	0	0	4
C34.2	Middle lobe of lung	0	0	0	0	0	0	1	0	1
C34.3	Lower lobe of lung	0	0	0	0	1	1	0	0	2
C34.9	Lung	1	6	23	86	347	565	493	163	1684
C38.2	Posterior mediastinum	0	0	1	0	1	2	0	0	4
C38.3	Mediastinum	0	0	4	1	5	3	1	2	16
C38.4	Pleura	0	0	4	3	4	8	9	1	29
C39.9	Respiratory tract	0	0	0	0	0	1	0	0	1
C40.0	Long bones & articular cartilages of upper limbs	14	16	7	2	7	2	1	1	50
C40.1	Short bones & articular cartilages of upper limbs	3	5	0	0	0	0	0	0	8
C40.2	Long bones & articular cartilages of lower limbs	0	4	2	0	2	0	0	0	8
C40.3	Short bones & articular cartilages of lower limbs	2	8	2	3	4	0	1	0	20







**Appendix I : Age-specific distribution of cancer patients, NICRH (2015)**

ICD-O	Primary site of tumour	Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C62.1	Desendent testis	0	0	1	0	0	0	0	0	1
C62.9	Testis	3	11	9	10	6	3	3	0	45
C63.0	Epididymis	0	1	0	0	1	0	1	0	3
C63.2	Scortum	0	0	0	0	0	0	0	1	1
C64.9	Kidney	11	0	4	9	11	17	8	3	63
C65.9	Renal pelvis	2	0	0	2	3	3	0	1	11
C67.9	Bladder	0	1	1	5	28	42	27	10	114
C69.0	Conjunctiva	0	0	1	1	1	1	1	1	6
C69.2	Retina	1	0	0	0	0	0	0	0	1
C69.4	Eye ball	6	0	0	0	2	0	2	0	10
C69.6	Orbit	2	1	1	0	2	0	0	2	8
C69.9	Eye	31	0	0	0	1	4	2	2	40
C70.0	Ceribral meningis	0	0	1	0	0	0	0	0	1
C70.1	Spinal menengis	0	0	0	0	0	1	0	0	1
C71.0	Cerebram	3	6	5	5	7	6	2	2	36
C71.1	Frontal lobe	0	0	0	0	1	0	0	0	1
C71.2	Temporal lobe	0	0	0	1	0	0	0	0	1
C71.4	Occipital lobe	0	0	0	0	1	1	0	0	2
C71.6	Cerebellum	0	1	0	0	0	0	0	0	1
C71.8	Brainstem	2	2	0	1	1	0	1	0	7
C71.9	Brain	1	1	3	2	2	5	2	0	16
C73.9	Thyroid	0	4	4	4	8	11	3	0	34
C75.1	Pituitary gland	0	0	1	0	0	0	0	0	1
C76.0	Cheek, Jaw ,Nose	0	0	0	0	2	3	1	0	6
C76.1	Thorax	0	0	0	0	0	1	0	0	1
C76.2	Abdominal wall	1	0	0	3	2	3	1	1	11
C76.3	Pelvis	0	0	1	0	1	0	0	0	2
C77.0	LN of Head face & Neck	8	8	15	35	99	142	98	35	440
C77.2	Intra abdominal LN	0	1	0	0	2	0	1	0	4
C77.3	LN of axilla	1	1	2	6	6	5	1	1	23
C77.4	Inguinal region	1	3	0	10	9	2	7	2	34
C77.5	Pelvic LN	1	4	1	2	0	0	0	0	8
C77.9	LN	31	25	39	47	65	74	36	12	329
C80.9	Un known primary site	3	7	8	15	21	19	15	7	92
	Total	203	237	346	603	1310	1717	1251	458	6125

### Appendix II : Age-specific distribution of cancer patients, NICRH (2015)

#### B. Female

ICD-O	Primary site of tumour	Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C00	LIP	0	1	0	2	7	4	1	1	16
C01.9	Base of the tongue	3	5	4	6	7	8	1	0	34
C02.4	Lingual tonsil	2	0	1	1	3	2	0	0	9
C02.9	Tongue	1	2	8	7	21	10	10	2	61
C03.9	Gum	1	0	0	2	3	4	0	2	12
C04.9	Floor of the mouth	0	0	2	4	4	5	2	0	17
C05.0	Hard palate	0	1	0	2	3	1	1	0	8
C05.1	Soft palate	0	0	3	5	1	3	1	1	14
C05.9	Palate	0	1	1	0	7	1	1	3	14
C06.0	Cheek /buccal mucosa	0	3	3	19	41	45	17	12	140
C06.9	Oral cavity/Buccal cavity	0	0	0	5	9	5	8	1	28
C07.9	Parotid Gland	1	1	1	8	1	5	1	0	18
C08.0	Sub mandibular/maxillary gland	1	2	3	6	7	12	4	3	38
C09.0	Tonsillar fossa	0	0	0	2	1	0	0	0	3
C09.9	Tonsil	0	1	0	2	8	7	3	0	21
C10.0	Valecula	0	0	0	0	1	0	0	0	1
C10.4	Branchial cleft	0	0	0	0	1	0	2	0	3
C10.9	Oropharynx	0	0	0	1	0	0	1	0	2
C11.9	Nasopharynx	0	3	2	2	2	1	1	0	11
C12.9	Pyriiformsinus/fossa	2	0	0	0	2	3	0	1	8
C13.1	Aryepiglottic fold	0	0	0	0	0	1	0	0	1
C13.9	Hypopharynx	0	0	0	0	2	1	0	0	3
C14.0	Pharynx	0	0	0	0	1	2	1	0	4
C15.0	Cervical oesophagus	0	3	2	8	8	10	2	1	34
C15.2	Abdominal oesophagus	0	0	0	0	1	2	0	0	3
C15.4	Middle 3rd of oesophagus	0	0	1	0	0	0	0	0	1
C15.9	Oesophagus	0	1	1	13	44	37	27	12	135
C16.9	Stomach	0	3	14	34	33	29	11	8	132
C17.1	Jejunum	0	0	3	2	2	3	3	0	13
C17.2	Ileum	0	0	1	2	1	0	0	0	4
C18.0	Cecum	0	1	1	2	0	0	0	0	4
C18.2	Ascending colon	0	0	0	0	0	1	0	0	1
C18.3	Hepatic flexure	0	0	0	0	0	1	0	1	2
C18.7	Sigmoid colon	0	0	1	3	1	0	1	0	6
C18.9	Colon	0	3	3	11	5	4	4	0	30
	Rectosigmoid junction	0	0	0	1	3	0	0	0	4

## Appendix II : Age-specific distribution of cancer patients, NICRH (2015)

ICD-O	Primary site of tumour	Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C20.9	Rectum	0	7	22	25	32	21	10	2	119
	Anus	0	0	0	0	2	0	0	0	2
C21.1	Anal canal	0	1	1	2	2	0	0	0	6
C22.0	Liver	2	4	6	20	35	31	15	2	115
C23.9	Gall bladder	0	2	8	24	45	37	21	4	141
C24.1	Ampula of vater	0	0	1	0	0	1	0	0	2
C25.0	Head of pancrease	0	0	0	1	2	1	0	0	4
C25.9	Pancrease	0	0	1	2	2	2	1	1	9
C30.0	Nasal cavity	1	1	2	2	0	1	1	1	9
C30.1	Middle ear , inner ear	0	0	0	3	0	0	0	0	3
C31.0	Maxillary sinuses	0	1	0	0	4	2	2	0	9
C31.1	Ethmoid sinuses	0	0	0	0	0	2	0	0	2
C31.2	Frontal sinuses	0	0	0	0	1	0	0	0	1
C32.0	Glottis, Vocal cord	0	3	0	1	0	1	1	0	6
C32.1	Supraglottis, Epiglottis,	1	0	1	2	2	4	2	0	12
C32.9	Larynx	0	0	2	1	0	5	0	1	9
C34.1	Upper lobe of lung	1	0	0	0	0	0	0	0	1
C34.2	Middle lobe of lung	0	0	0	0	0	1	0	0	1
C34.9	Lung	0	8	20	34	70	87	59	21	299
C38.3	Mediastinum	0	0	1	0	0	0	0	0	1
C38.4	Pleura	0	2	0	2	7	4	1	0	16
C39.9	Respiratory tract	0	0	1	0	0	0	0	0	1
C40.0	Long bones & articular cartilages of upper limbs	11	6	6	1	2	2	0	0	28
C40.1	Short bones & articular cartilages of upper limbs	2	1	0	0	1	1	0	0	5
C40.2	Long bones & articular cartilages of lower limbs	2	0	0	0	0	0	1	0	3
C40.3	Short bones & articular cartilages of lower limbs	4	5	3	3	2	0	0	0	17
C40.9	Bones & articular cartilages limbs	1	1	0	2	1	0	0	0	5
C41.0	Bones & articular cartilages of Skull & face	0	1	0	0	0	0	0	0	1
C41.1	Mendible & Jaw	0	0	0	0	2	0	3	0	5
C41.2	Vertebra & Vertebral column	0	0	2	3	2	4	2	0	13
C41.4	Bones & articular cartilages of pelvic region	0	1	0	1	1	0	0	0	3

## Appendix II : Age-specific distribution of cancer patients, NICRH (2015)

ICD-O	Primary site of tumour	Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C41.9	Bones & articular cartilages	1	1	0	1	1	0	0	0	4
C42.1	Blood	16	14	8	9	6	8	4	1	66
C44.0	Bone marrow	2	2	2	3	2	0	0	1	12
C44.1	Skin of eye lid	0	0	0	0	0	0	1	0	1
C44.3	Skin of Face	0	0	0	0	1	0	0	0	1
	Skin of trunk	0	0	0	0	0	0	1	0	1
C44.6	Skin of upper limb	0	0	0	0	0	1	0	0	1
C44.7	Skin of lower limb & Hip	0	0	0	0	0	0	1	0	1
C44.9	Skin	0	0	1	2	11	3	3	0	20
C47.2	Perepheral nerve & Autonomic nerve of lower limb	1	0	0	0	0	0	0	0	1
C47.6	Perepheral nerve & Autonomic nerve of Trunk	1	0	0	0	0	0	0	0	1
C48.0	Retroperitonium	0	1	0	0	0	0	0	0	1
C48.1	Omentum, Pouch of duglus, Cal de sac	0	0	4	1	0	2	1	0	8
C49.0	Connective tissue of scalp/face/neck	1	1	2	2	4	2	1	0	13
C49.1	Connective tissue of UL,arm, forearm,hand,shoulder,thum,wris	0	0	3	0	3	4	1	0	11
C49.2	Connective tissue of LL,foot,leg, thigh,hip,knee	2	5	1	10	11	3	1	1	34
C49.3	Connective tissue of Thorax	0	0	0	1	0	0	0	0	1
C49.3	Lymphatics/Lymphoma	0	1	1	0	0	1	0	0	3
C50.0	Breast (Nipple/areola)	0	0	2	3	2	0	1	0	8
C50.3	Breast (LIQ)	0	0	0	0	1	0	0	0	1
C50.8	Breast (Over lapping lesion)	0	0	0	0	1	0	0	0	1
C50.9	Breast	3	43	221	450	430	159	52	5	1363
C51.9	Vulva	0	0	0	2	4	5	1	0	12
C52.9	Vagina	0	0	0	6	3	6	2	1	18
C53.9	Cervix	0	8	65	209	326	190	71	25	894
C54.9	Body of uterus	0	0	0	0	0	0	0	1	1
C55.9	Uterus	0	0	7	16	17	10	2	0	52
C56.9	Ovary	0	2	15	16	23	18	8	0	82
C57.4	Adenexa	0	3	4	3	7	3	2	0	22
C57.8	Tubo overian & Utero overian	2	15	10	8	21	9	1	0	66

## Appendix II : Age-specific distribution of cancer patients, NICRH (2015)

ICD-O	Primary site of tumour	Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C57.9	Female genital tract	0	0	2	0	0	0	0	0	2
C58.9	Placenta, Foetal membrane	0	0	0	0	0	0	1	0	1
C64.9	Kidney	3	3	4	0	3	3	2	0	18
C65.9	Renal pelvis	2	0	1	1	0	0	0	0	4
C66.9	Ureter	0	0	1	0	0	0	0	0	1
C67.9	Bladder	0	0	3	3	8	7	8	2	31
C69.4	Eye ball	1	0	0	0	0	0	0	0	1
C69.6	Orbit	0	1	0	0	0	0	0	2	3
C69.9	Eye	12	1	0	1	3	4	1	0	22
C70.0	Cerebral meningis	0	1	0	0	1	0	0	0	2
C70.9	Meninges (NOS)	0	0	1	0	0	0	0	0	1
C71.0	Cerebrum	1	3	5	4	2	5	1	0	21
C71.2	Temporal lobe	0	1	0	0	1	0	0	0	2
C71.6	Cerebellum	0	0	0	0	1	0	0	0	1
C71.7	Brainstem	0	0	0	1	0	1	0	0	2
C71.9	Brain	1	0	1	3	1	1	1	0	8
C73.9	Thyroid	1	6	14	11	8	7	3	3	53
C74.9	Adrenal gland	0	0	1	0	0	0	0	0	1
C75.1	Pituitary gland	0	0	0	1	0	0	0	0	1
C76.0	Cheek, Jaw ,Nose	0	0	1	0	1	3	2	1	8
C76.2	Abdominal wall	0	3	2	4	5	6	1	0	21
C76.3	Pelvis	0	1	1	0	0	0	0	0	2
C77.0	LN of Head face & Neck	2	8	15	18	39	35	26	7	150
C77.1	Intra thoracic LN	0	0	0	0	1	0	0	0	1
C77.2	Intra abdominal LN	0	1	0	0	0	0	0	1	2
C77.3	LN of axilla	1	2	5	3	9	4	1	0	25
C77.4	Inguinal region	0	1	2	4	2	3	1	1	14
C77.5	Pelvic LN	1	1	1	1	2	2	3	0	11
C77.9	LN	5	17	11	21	31	19	13	2	119
C80.9	Un known primary site	4	9	9	10	21	11	7	1	72
	Total	99	230	558	1107	1458	949	447	135	4983

## Appendix III : Histological classification of cancer according to sites

Site and Histology	Male	Female	Total	Site	Male	Female	Total
<b>Lip</b>	<b>17</b>	<b>16</b>	<b>33</b>	<b>Stomach</b>	<b>300</b>	<b>132</b>	<b>432</b>
Sq cell ca	8	9	17	Adenocarcinoma	178	84	262
Basal cell ca	7	6	13	Malignant tumour	103	41	144
Mucoepidermoid ca	1	1	2	Sq cell ca	10	2	12
Malignant tumour	1	0	1	Adenoma	5	3	8
<b>Tongue</b>	<b>199</b>	<b>103</b>	<b>302</b>	Other	4	2	6
Squamous cell carcinoma	188	97	285	<b>Small Intestine</b>	21	177	198
Rhabdomyosarcoma	4	3	7	Adenocarcinoma	17	15	32
Other	7	3	10	NHL	2	1	3
<b>Oral cavity</b>	<b>223</b>	<b>226</b>	<b>449</b>	Papillary adenocarcinoma	1	1	2
Squamous cell carcinoma	173	203	376	Sq cell ca	1	0	1
Adenocarcinoma	6	4	10	<b>Colon</b>	<b>89</b>	<b>42</b>	<b>131</b>
Fibrosarcoma	5	3	8	Adenocarcinoma	81	37	118
Adenocystic carcinoma	6	2	8	Sq cell ca	5	3	8
Malignant melanoma	0	2	2	Malignant tumour	3	2	5
Basal cell carcinoma	4	1	5	<b>Rectum</b>	<b>159</b>	<b>110</b>	<b>269</b>
NHL	3	0	3	Adenocarcinoma	140	98	238
Malignant tumour	22	11	33	Sq cell ca	17	9	26
Other	3	0	3	Adenoma	2	3	5
<b>Salivary glands</b>	<b>79</b>	<b>54</b>	<b>133</b>	<b>Anal canal</b>	<b>18</b>	<b>7</b>	<b>25</b>
Squamous cell carcinoma	33	33	66	Sq cell ca	10	4	14
Mucoepidermoid carcinoma	25	9	34	Adenocarcinoma	7	3	10
Adenocarcinoma	11	6	17	Adenoid Sq cell ca	1	0	1
Adeno cystic carcinoma	3	3	6	<b>Liver</b>	<b>257</b>	<b>108</b>	<b>365</b>
NHL	2	1	3	Hepatocellular ca	212	83	295
Pleomorphic carcinoma	2	0	2	Adenocarcinoma	34	25	59
Malignant tumour	2	0	2	Hepatoblastoma	6	0	6
Sarcoma	1	1	2	Sq cell ca	4	1	5
Other	0	1	1	<b>Gall bladder</b>	<b>88</b>	<b>118</b>	<b>206</b>
<b>Tonsil</b>	<b>72</b>	<b>23</b>	<b>95</b>	Adenocarcinoma	81	112	193
Squamous cell carcinoma	69	20	89	Cholangiocarcinoma	5	4	9
Adenocarcinoma	1	1	2	Sq cell ca	2	2	4
NHL	1	1	2	<b>Pancreas</b>	<b>26</b>	<b>12</b>	<b>38</b>
Other	1	1	2	Adenocarcinoma	25	9	34
<b>Pharynx</b>	<b>160</b>	<b>24</b>	<b>184</b>	Sq cell ca	0	3	3
Squamous cell carcinoma	132	13	145	Cholangiocarcinoma	1	0	1
Malignant tumour	16	8	24	<b>Nose, Middle ear and Sinuses</b>	<b>26</b>	<b>24</b>	<b>50</b>
Adenocarcinoma	5	1	6	Sq cell ca	17	14	31
NHL	4	1	5	Malignant tumour	6	5	11
Other	3	1	4	Adenocarcinoma	3	5	8
<b>Oesophagus</b>	<b>288</b>	<b>144</b>	<b>432</b>	<b>Larynx</b>	<b>286</b>	<b>27</b>	<b>313</b>
Squamous cell carcinoma	234	128	362	Sq cell ca	275	25	300
Adenocarcinoma	50	13	63	Adenocarcinoma	8	2	10
Lymphoma	4	3	7	Malignant tumour	2	0	2
				Other	1	0	1



## Appendix III : Histological classification of cancer according to site (

Site	Male	Female	Total	Site	Male	Female	Total
<b>Lungs</b>	<b>1636</b>	<b>288</b>	<b>1924</b>	<b>Connective tissue</b>	<b>108</b>	<b>61</b>	<b>169</b>
Sq cell ca	810	100	910	Sq cell ca	31	23	54
Adenocarcinoma	474	140	614	Malignant tumour	20	10	30
Small cell ca	208	18	226	Osteosarcoma	10	4	14
Small cell type	99	21	120	Fibrosarcoma	8	2	10
Large cell ca	22	4	26	Sarcoma	5	4	9
Malignant tumour	18	3	21	Fibrous histiocytoma	7	2	9
Other	5	2	7	Adenocarcinoma	4	4	8
<b>Mediastinum, para-aortic lymphus</b>	<b>38</b>	<b>9</b>	<b>47</b>	Liposarcoma	3	2	5
Sq cell ca	14	2	16	Chondrosarcoma	4	0	4
Adenocarcinoma	12	1	13	NHL	2	1	3
Small cell type	5	3	8	Rhabdomyosarcoma	2	1	3
Malignant tumour	7	3	10	Lymphoma	2	1	3
<b>Bones and cartilage</b>	<b>136</b>	<b>84</b>	<b>220</b>	Dermato fibroma	2	1	3
Osteosarcoma	57	25	82	Embryonal sarcoma	2	1	3
Ewing's sarcoma	24	14	38	Hodgkins' Lymphoma	1	1	2
Fibrous histiocytoma	11	8	19	Malignant melanoma	1	1	2
Sq cell ca	8	9	17	Ewing's sarcoma	1	1	2
Sarcoma	6	8	14	Spindle cell ca	1	1	2
Fibrosarcoma	6	7	13	Neurofibrosarcoma	1	1	2
Chondrosarcoma	8	4	12	Lymphangiosarcoma	1	0	1
Malignant tumour	5	4	9	<b>Breast</b>	<b>23</b>	<b>1348</b>	<b>1371</b>
Adenocarcinoma	6	2	8	Duct cell ca	20	1342	1362
Other	5	3	8	Medullary ca	0	2	2
<b>Blood and haematopoietic system</b>	<b>145</b>	<b>78</b>	<b>223</b>	Lobular ca	0	2	2
Acute Lymphoblastic Leukemia	66	39	105	Sq cell ca	1	2	3
Acute Myeloid Leukemia	38	23	61	Adenocarcinoma	2	0	2
Chronic Myeloid Leukemia	18	8	26	<b>Vulva and vagina</b>	-	<b>25</b>	<b>25</b>
Leukemia	8	4	12	Sq cell ca	-	21	21
Chronic Monocytic leukemia	8	2	10	Adenocarcinoma	-	3	3
Chronic Lymphocytic Leukemia	5	1	6	Fibrous histiocytoma	-	1	1
Multiple myeloma	2	1	3	<b>Cervix</b>	-	<b>783</b>	<b>783</b>
<b>Skin</b>	<b>46</b>	<b>25</b>	<b>71</b>	Sq cell ca	-	702	702
Sq cell ca	19	9	28	Adenocarcinoma	-	76	76
Basal cell ca	18	11	29	Adenoid Sq cell ca	-	3	3
Malignant melanoma	6	2	8	Germ cell tumour	-	2	2
Adenocarcinoma	2	2	4	<b>Uterus</b>	-	<b>45</b>	<b>45</b>
Liposarcoma	1	1	2	Sq cell ca	-	23	23
<b>Peripheral nerves</b>	<b>2</b>	<b>2</b>	<b>4</b>	Adenocarcinoma	-	18	18
Sq cell ca	2	0	2	Endometroid ca	-	2	2
Neuroblastoma	1	1	2	Leiomyosarcoma	-	1	1
<b>Peritoneum</b>	<b>9</b>	<b>9</b>	<b>18</b>	Serous cystadenoma ca	-	1	1
Adenocarcinoma	8	5	13				
Sq cell ca	1	1	2				
Malignant tumour	0	2	2				

## Appendix III : Histological classification of cancer according to site

Site	Male	Female	Total	Site	Male	Female	Total
<b>Ovary</b>	-	<b>74</b>	<b>74</b>	<b>Ureter and bladder</b>	<b>112</b>	<b>30</b>	<b>142</b>
Adenocarcinoma	-	41	41	Transitional cell ca	85	22	107
Dysgerminoma	-	2	2	Adenocarcinoma	9	3	12
Serous cystadeno ca	-	10	10	Sq cell ca	9	2	11
Sq cell ca	-	13	13	Papillary ca	7	3	10
Papillary adenocarcinoma	-	1	1	Malignant tumour	2	0	2
Mucinous cystadeno ca	-	3	3	<b>Eye and adnexa</b>	<b>65</b>	<b>26</b>	<b>91</b>
Granulosa cell tumour	-	1	1	Retinoblastoma	40	17	57
Germ cell tumour	-	2	2	Sq cell ca	13	3	16
Fibrosarcoma	-	1	1	Adenocarcinoma	3	3	6
<b>Unspecified female genital organs-</b>	<b>69</b>	<b>69</b>	<b>69</b>	Malignant tumour	4	2	6
Sq cell ca	-	18	18	NHL	3	0	3
Adenocarcinoma	-	19	19	Basal cell carcinoma	2	1	3
Serous cystadeno ca	-	4	4	<b>Brain and meninges</b>	<b>60</b>	<b>35</b>	<b>95</b>
Dysgerminoma	-	2	2	Astrocytoma	23	14	37
Mucinous cystadeno ca	-	2	2	Glioblastoma	16	6	22
Malignant tumour	-	24	24	Glioma	10	5	15
<b>Penis</b>	<b>7</b>	-	<b>7</b>	Meningioma	2	6	8
Sq cell ca	5	-	5	Neuroblastoma	3	2	5
Malignant tumour	2	-	2	Ependymoma	3	1	4
<b>Prostate</b>	<b>77</b>	-	<b>77</b>	Adenocarcinoma	2	1	3
Adenocarcinoma	65	-	65	Medulloblastoma	1	0	1
Transitional cell ca	8	-	8	<b>Thyroid</b>	<b>35</b>	<b>53</b>	<b>88</b>
Sq cell ca	3	-	3	Papillary ca	25	41	66
Malignant tumour	1	-	1	Follicular ca	6	6	12
<b>Testis</b>	<b>44</b>	-	<b>44</b>	Medullary ca	1	3	4
Seminoma	22	-	22	Adenocarcinoma	1	2	3
Malignant tumour	5	-	5	Malignant tumour	1	1	2
Sertoli cell tumour	4	-	4	Sq cell ca	1	0	1
Embryonal sarcoma	2	-	2	<b>Ill defined sites</b>	<b>16</b>	<b>24</b>	<b>40</b>
Embryonal carcinoma	2	-	2	Malignant tumour	5	13	18
Teratoma	2	-	2	Sq cell ca	7	8	15
Germ cell tumour	2	-	2	Adenocarcinoma	2	1	3
Adenocarcinoma	2	-	2	Fibrosarcoma	1	1	2
Leydig cell tumour	2	-	2	Sarcoma	1	1	2
Teratocarcinoma	1	-	1	<b>Lymph nodes</b>	<b>821</b>	<b>308</b>	<b>1129</b>
<b>Unspecified male genital Organs</b>	<b>4</b>	-	<b>4</b>	NHL	301	110	411
Sq cell ca	3	-	3	Sq cell ca	214	64	278
Adenocarcinoma	1	-	1	Adenocarcinoma	145	51	196
<b>Kidney</b>	<b>71</b>	<b>22</b>	<b>93</b>	Hodgkins' Lymphoma	46	25	71
Renal cell ca	50	18	68	Fibrosarcoma	6	2	8
Nephroblastoma	11	2	13	Small cell ca	11	3	14
Transitional cell ca	4	1	5	Follicular ca	4	2	6
Adenocarcinoma	3	0	3	Mucoepidermoid	3	2	5
Sq cell ca	3	0	3	Malignant tumour	91	49	140
Angiomyosarcoma	0	1	1				

# **Cancer Registry Report 2016**

A total of 27085 patients attended the Out-Patient Department (OPD) of NICRH in 2016; of them 11015 (40.7%) new patients had either confirmed or provisional diagnosis of some sorts of cancer and included in this report. The rest were not included as they had no medical records with them at the time of data collection.

**Demography:**

Majorities (5983, 54.3%) of the patients were male and the rest 5032 (45.7%) patients were female giving rise to a male female ratio of 1.9:1. Mean age of the patients was 50.72 years with SD± 15.7 which ranged from 1 to 110 years. Among the all patients 93.6% (10306) were Muslims & 91.7% (10096) were currently married. A huge number of patients (4647) were illiterate & 40% patients (4407) had at least primary level education. Agricultural activities were main profession of men (3642/5983) while majority of female (4742/5032) were housewives.

**Systemwise distribution:**

Cancer of the respiratory system and intrathoracic organ occupied the top position (2382, 21.6%) followed by digestive organ (2155, 19.6%), breast (1533, 13.9%), female genital organ (1113, 10.1%), lymph node (1104, 10%) and lip, oral cavity and pharynx cancers (1087, 9.9%).

**Leading sites:**

Lung was the leading site of cancers in both sexes (1829, 16.6 %). Breast came up with 2nd position (1531, 13.9%). Cancers of cervix (861, 7.8%), oesophagus (521, 4.7%), liver (404, 3.7%), stomach (403, 3.7%), rectum (331, 3%), cheek/buccal mucosa (257, 2.3%) tongue (238, 2.2%) and gall bladder (223, 2%) occupied the successive places.

Lung cancers occupied the first place in male patients (1562, 26.1%). Cancers of the oesophagus (365, 6.1%), stomach (299, 5%) liver (286, 4.8%) and rectum (191, 3.2%) came next in that order.

Among female carcinoma of the breast lead the tally (1517, 30.1%) followed by cancer of the cervix (855, 17%), lung (267, 5.3%), cheek/buccal mucosa (163, 3.2%) and oesophagus (156, 3.1%).

**Residential status:**

Majority of the patients attended OPD of NICRH were from Dhaka division (3851, 35%) and next from Chattogram division (2471, 22.4%). The other divisional representations were as follows: Barishal (1142, 10.4%), Mymensingh (985, 8.9%), Rajshahi (938, 8.5%), Khulna (886, 8%), Rangpur (496, 4.5%) and Sylhet (246, 2.2%).

**Smoking habit:**

In male about 76.5% (4578) cancer patients were ever smoker and 31.1% (1860) were current smoker. Around 2% (107) female patients were ever smoker. About 38.1% (1919) female had habit of chewing tobacco and 32.7% (1956) male were habituated with chewing tobacco.

**Method of diagnosis:**

A total number of 7689 (69.8%) patients came to this hospital with confirmed histopathological diagnosis, 1896 (17.2%) patients had cytopathologically confirmed diagnosis. About 12% patients (1281) reported suspected diagnosis based on radiological evidences and 149 (1.4%) patients were only clinically diagnosed as cancer patients.

**Paediatric cancer:**

Paediatric cancer patients (0-15) were small in numbers. Only 267 (2.4%) paediatric patients reported at OPD during the period. Of them 171 (64%) were male child & 96 (36%) were female child. Leukaemia was the leading cause of cancer in this group (54, 20.2%) followed by lymphoma (47, 17.6%), cancer of the connective tissue (38, 14.2%) brain cancer (24, 8.9%) and bones & articular cartilage cancers (19, 7.1%).

**Geriatric cancer:**

Patients of 65 years and above were considered as geriatric patients. About 21.7% (2398) of all cancer patients were from this age group. Most of them i.e. 1777 were male (74.1%). Only 25.9 % (621) were female. Lung was the leading site of cancer in this age group (666, 27.8%) followed by oesophagus (160, 6.7%), stomach (110, 4.6%), cervix (101, 4.2%) and liver (90, 3.8%).

**Treatment received before attending NICRH:**

Most of the patients (78.5%, 8649) did not received any kind of cancer treatment before attending NICRH, only 21.5% (2366) got some treatment before.

Figure 1: Residential Status by districts

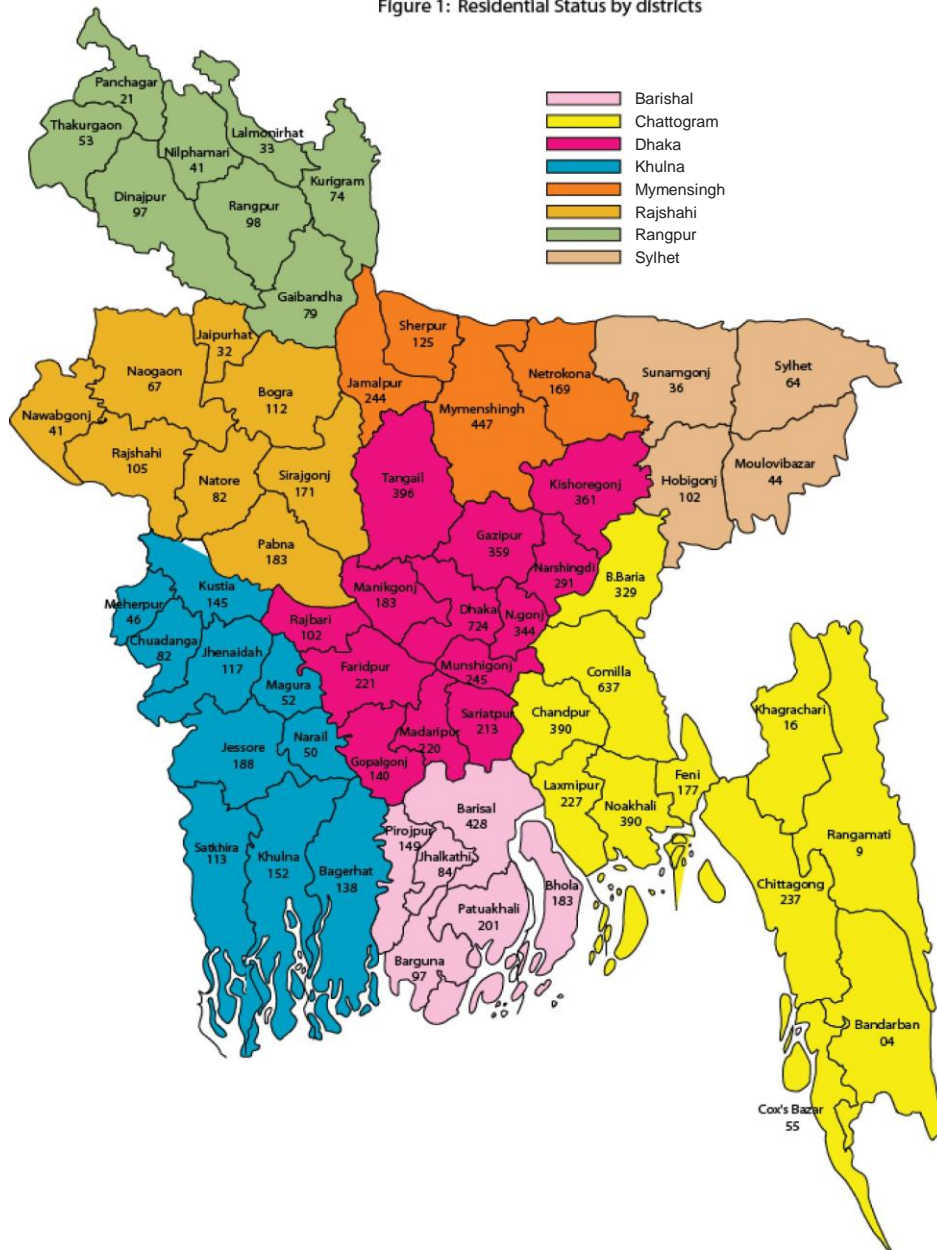
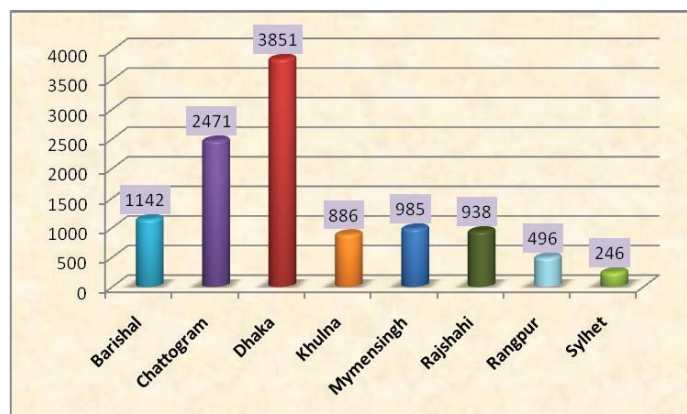


Fig: 1 Map diagram showing the distribution of the patients 2016



**Fig: 2** Distribution of the patients by division

**Table 1: Tumour board (main) decision regarding treatment (n=7244)**

Types of treatment	Frequency	Percentage
Chemotherapy (C)	2436	33.6
Radiotherapy (R)	2718	37.5
R+C	1581	21.8
Surgery (S)	138	1.9
S+C	55	0.8
S+R	23	0.3
S+R+C	16	0.2
Hormone therapy	43	0.6
Palliative	81	1.1
Slide review	3	0.0
Referred	93	1.3
Further investigations	57	0.8
Total	7244	100.0

**Table 2: Tumour board (mini) decision regarding treatment (n=6595)**

Types of treatment	Frequency	Percentage
Chemotherapy (C)	2067	31.3
Radiotherapy (R)	2393	36.3
R+C	1759	26.7
Surgery (S)	50	0.8
S+C	52	0.8
S+R	31	0.5
S+R+C	39	0.6
Hormone therapy	17	0.3
Palliative	60	0.9
Slide review	27	0.4
Referred	49	0.7
Further investigations	51	0.8
Total	6595	100.0

**A. System wise pattern:****Table 3: System wise distribution of the cancer**

ICD-O	Primary site	Frequency	Percent
C00-C14	Lip, oral cavity and pharynx	1087	9.9
C15-C26	Digestive organ	2155	19.6
C30-C39	Respiratory system and intrathoracic organ	2382	21.6
C40-C41	Bones, joints and articular cartilage	93	.8
C42	Haemopoietic and reticuloendothelial systems	202	1.8
C44	Skin	54	.5
C48	Retroperitoneum and peritoneum	9	.1
C49	Connective, subcutaneous and other soft tissues	251	2.3
C50	Breast	1533	13.9
C51-C58	Female genital organs	1113	10.1
C60-C63	Male genital organs	164	1.5
C64-C68	Urinary tract	312	2.8
C69-C72	Eye, brain and other parts of CNS	222	2.0
C73-C75	Thyroid and other endocrine glands	119	1.1
C76	Other ill-defined sites	37	.3
C77	Lymph nodes & lymphatics	1104	10.0
C80	Unknown primary site	178	1.6
	Total	11015	100.0



## B. Demography:

**Table 4: Demographic characteristics of the cancer patients**

Variables	Male (%) (n=5983)	Female (%) (n=5032)	Total (%) (n=11015)
<i>Religion</i>			
Islam	5597 (93.5)	4709 (93.6)	10306 (93.6)
Hinduism	366 (6.1)	302 (6.0)	668 (6.1)
Christianity	10 (0.2)	16 (0.3)	26 (0.2)
Buddhism	10 (0.2)	5 (0.1)	15 (0.1)
<i>Marital status</i>			
Never married	322 (5.4)	173 (3.4)	495 (4.5)
Married	5654 (94.5)	4442 (88.3)	10096 (91.7)
Widowed	2 (0.0)	400 (7.9)	402 (3.6)
Divorced	5 (0.1)	17 (0.36)	22 (0.2)
<i>Education</i>			
Not applicable	51 (0.9)	24 (0.5)	75 (0.7)
Illiterate	2087 (34.9)	2560 (50.9)	4647 (42.2)
Primary	2683 (44.8)	1724 (34.3)	4407 (40.0)
Secondary	581 (9.7)	389 (7.7)	970 (8.8)
Higher secondary	286 (4.8)	152 (3.0)	438 (4.0)
Graduate & above	295 (4.9)	183 (3.6)	478 (4.3)
<i>Occupation</i>			
Not applicable	47 (0.8)	22 (0.4)	69 (0.6)
Service	740 (12.4)	125 (2.5)	865 (7.9)
Business	799 (13.4)	3 (0.1)	802 (7.3)
Agriculture	3622 (60.5)	20 (0.4)	3642 (33.1)
Day labourer	179 (3.0)	0 (0.0)	179 (1.6)
House wife	-	4742 (94.2)	4742 (43.1)
Retired/ aged	251 (4.2)	14 (0.3)	265 (2.4)
Industrial worker	62 (1.0)	0 (0.0)	62 (0.6)
Student	246 (4.1)	132 (2.6)	378 (3.4)
Others	8 (0.1)	3 (0.1)	11 (0.1)

**C. Leading sites of cancer:****Table 5: Top 10 malignancies**

Sl. No.	Site	Number	Percentage
1	Lung	1829	16.6
2	Breast	1531	13.9
4	Cervix	861	7.8
3	Lymphoma	642	5.8
5	Oesophagus	521	4.7
6	Liver	404	3.7
7	Stomach	403	3.7
8	Rectum	331	3.0
9	Cheek /buccal mucosa	257	2.3
10	Tongue	238	2.2

**Table 6: Top 10 cancers in male**

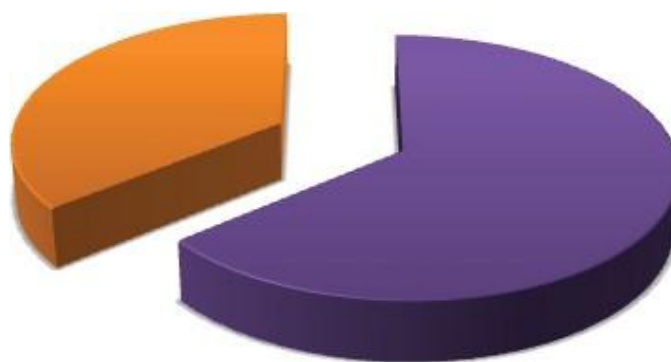
Sl. no.	Site	Number	Percentage
1	Lung	1562	26.1
2	Lymphoma	461	7.7
3	Oesophagus	365	6.1
4	Stomach	299	5.0
5	Liver	286	4.8
6	Rectum	191	3.2
7	Bladder	163	2.7
8	Tongue	151	2.5
9	Larynx	131	2.2
10	Blood	126	2.1

**Table 7: Top 10 cancers in female**

Sl. no.	Site	Number	Percentage
1	Breast	1517	30.1
2	Cervix	855	17.0
3	Lung	267	5.3
4	Lymphoma	181	3.6
5	Cheek /buccal mucosa	163	3.2
6	Oesophagus	156	3.1
7	Rectum	140	2.8
8	Gall bladder	132	2.6
9	Liver	118	2.3
10	Stomach	104	2.1

#### D. Special age group cancer:

**Paediatric cancer (0-15 years)**



**Fig 3: Paediatric cancers (n=267)**

**Table 8: Site of paediatric cancer (N=267)**

Sl. No.	Site of cancer	Frequency	Percent
1.	Blood	53	19.9
2.	Lymph node	47	17.6
3.	Connective tissue	41	15.4
4.	Brain	25	9.4
5.	Bones & articular cartilages	19	7.1
6.	Eye	18	6.7
7.	Kidney	10	3.7
8.	Lung	9	3.4
9.	Ovary	8	3.0
10.	Others	37	13.9

**Table 9: Morphology of paediatric cancer (N=267)**

Sl. No.	Morphology	Frequency	Percent
1.	Acute Lymphoblastic Leukemia	49	18.4
2.	Sq cell ca	40	15.0
3.	NHL	32	12.0
4.	Osteosarcoma	21	7.9
5.	Retinoblastoma	18	6.7
6.	Ewing's sarcoma	15	5.6
7.	Astrocytoma	11	4.1
8.	Hodgkins' Lymphoma	9	3.4
9.	Rhabdomyosarcoma	8	3.0
10.	Others	64	24.0

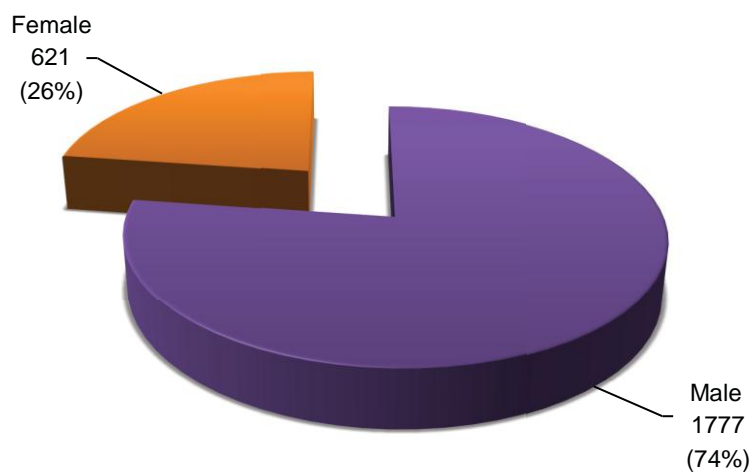
Geriatric cancer ( $\geq 65$  years)

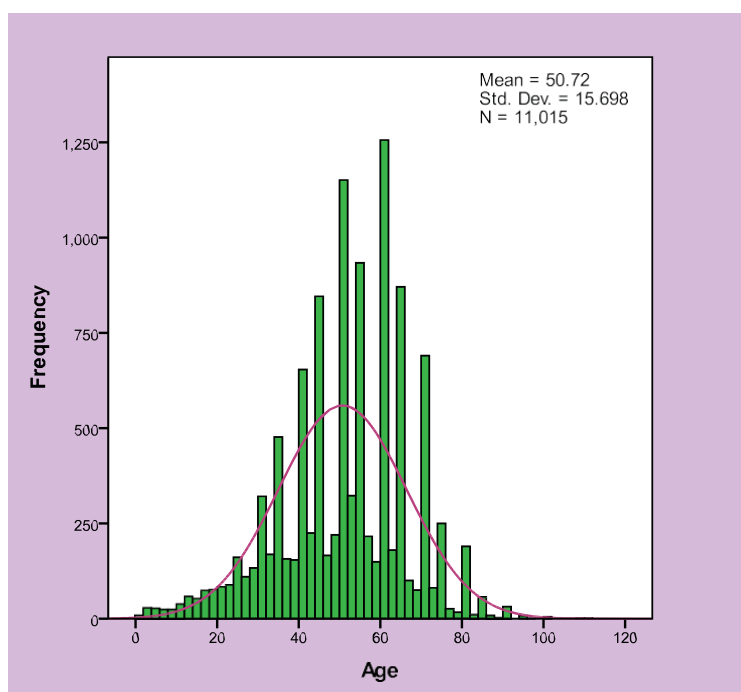
Fig 4: Geriatric cancers (n=2398)

Table 10: Primary site of top 10 geriatric cancers (n=2398)

Sl. No.	Primary site of cancer	Frequency	Percent
1.	Lung	666	27.8
2.	Oesophagus	160	6.7
3.	Stomach	110	4.6
4.	Cervix	101	4.2
5.	Lymph node	90	3.8
6.	Liver	90	3.8
7.	Bladder	81	3.4
8.	Prostate	74	3.1
9.	Tongue	68	2.8
10.	Breast	65	2.7

**Table 11: Morphology of geriatric cancer (top 10)**

Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	1305	54.4
2.	Adenocarcinoma	480	20.0
3.	Malignent tumour	110	4.6
4.	Hepatocellular ca	87	3.6
5.	NHL	82	3.4
6.	Transitional cell ca	77	3.2
7.	Small cell ca	68	2.8
8.	Duct cell ca	67	2.8
9.	Renal cell ca	17	0.7
10.	Papillary ca	14	0.6

**All sites:****Fig 5: Age distribution of all cancers (2016)**

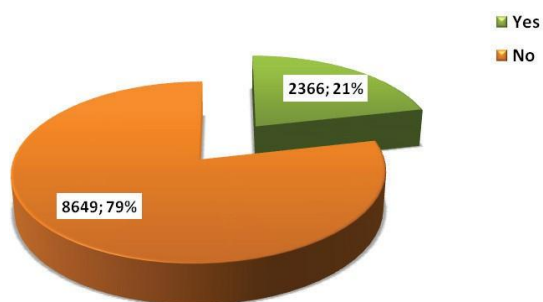


Fig 6: Received treatment outside NICRH

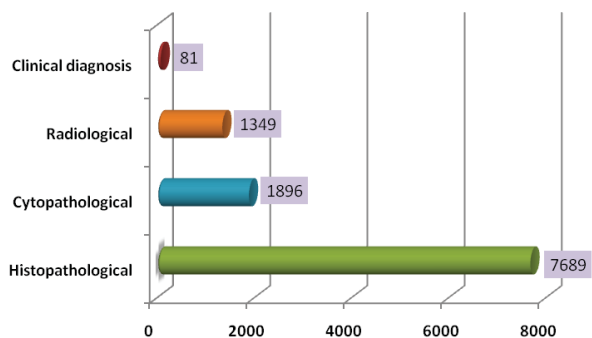


Fig 7: Method of diagnosis

## F. Head & neck cancer

Table 12: Primary site of Head & neck cancers

Primary site of tumour	Sex		Total
	Male	Female	
LIP	3 (0.5)	6 (1.4)	9 (0.8)
Base of the tongue	1 (0.2)	0 (0.0)	1 (0.1)
Tongue	151 (23.0)	87 (20.2)	238 (21.9)
Gum	0 (0.0)	6 (1.4)	6 (0.6)
Floor of the mouth	3 (0.5)	6 (1.4)	9 (0.8)
Hard palate	4 (0.6)	7 (1.6)	11 (1.0)
Soft palate	7 (1.1)	6 (1.4)	13 (1.2)
Uvula	1 (0.2)	7 (1.6)	8 (0.7)
Palate	10 (1.5)	11 (2.6)	21 (1.9)
Cheek /buccal mucosa	94 (14.3)	163 (37.8)	257 (23.6)
Vestibule of mouth	1 (0.2)	0 (0.0)	1 (0.1)
Oral cavity/Buccal cavity	15 (2.3)	30 (7.0)	45 (4.1)
Parotid Gland	23 (3.5)	22 (5.1)	45 (4.1)
Sub mandibular/maxillary gland	56 (8.5)	30 (7.0)	86 (7.9)
Tonsillar fossa	9 (1.4)	2 (0.5)	11 (1.0)
Tonsil	75 (11.4)	13 (3.0)	88 (8.1)
Valecula	6 (0.9)	3 (0.7)	9 (0.8)
Branchial cleft	26 (4.0)	5 (1.2)	31 (2.9)
Oropharynx	4 (0.6)	0 (0.0)	4 (0.4)
Nasopharynx	28 (4.3)	10 (2.3)	38 (3.5)
Pyriformsinus/fossa	108 (16.5)	10 (2.3)	118 (10.9)
Hypopharynx	6 (0.9)	4 (0.9)	10 (0.9)
Pharynx	23 (3.5)	3 (0.7)	26 (2.4)
Total	656 (100.0)	431 (100.0)	1087 (100.0)

Percentages are given in the parenthesis



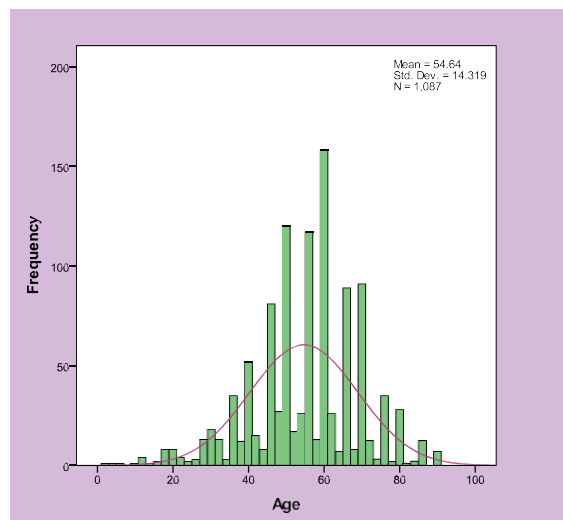


Fig 8: Age distribution of H & N cancers M: F= 1.5: 1

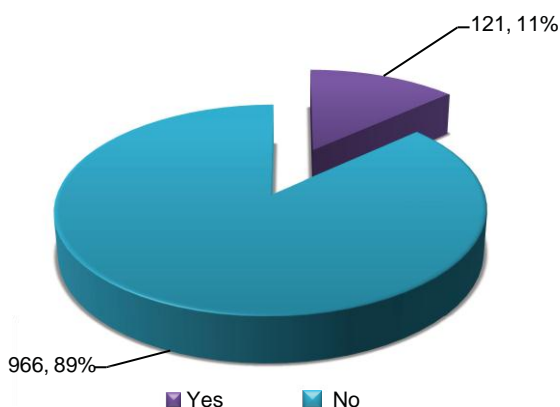


Fig 9: Case referral (H&N cancers)

## G. Respiratory System

Table 13 : Respiratory system cancers

Primary site of tumour	Sex		Total
	Male	Female	
Nasal cavity	5 (.2)	1 (0.3)	6 (0.3)
Middle ear, inner ear	7 (.3)	6 (1.7)	13 (.5)
Maxillary sinuses	8 (.4)	8 (2.3)	16 (0.7)
Frontal sinuses	4 (.2)	2 (.6)	6 (0.3)
Glottis, Vocal cord	85 (4.2)	5 (1.4)	90 (3.8)
Supraglottis, Epiglottis,	103 (5.1)	12 (3.4)	115 (4.8)
Larynx	131 (6.5)	12 (3.4)	143 (6.0)
Bronchous	38 (1.9)	8 (2.3)	46 (1.9)
Lung	1562 (77.1)	267 (75.2)	1829 (76.8)
Pleura	84 (4.1)	34 (9.6)	118 (5.0)
Total	2027 (100.0)	355 (100.0)	2382 (100.0)

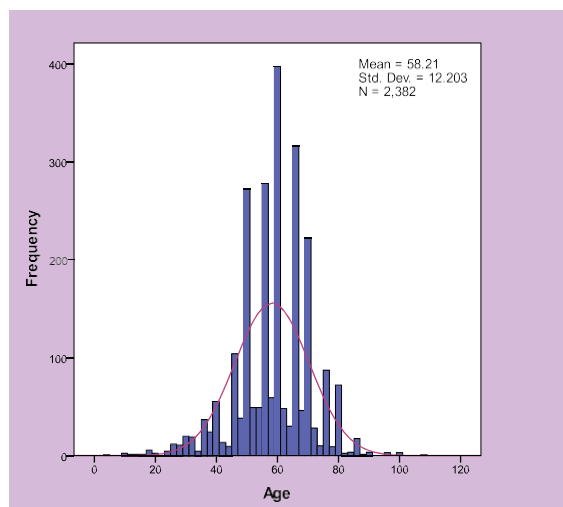


Fig 10: Age distribution of respiratory cancers

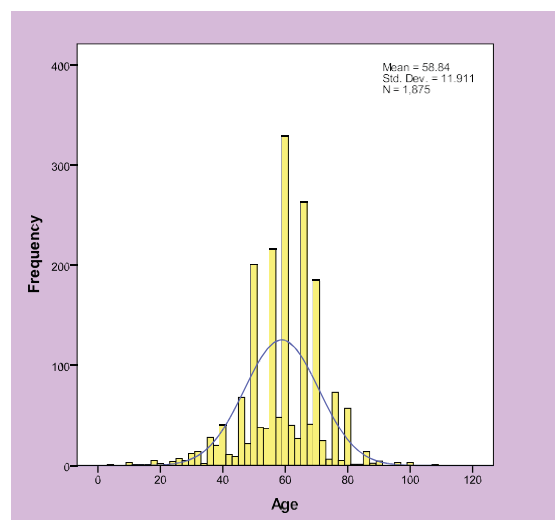
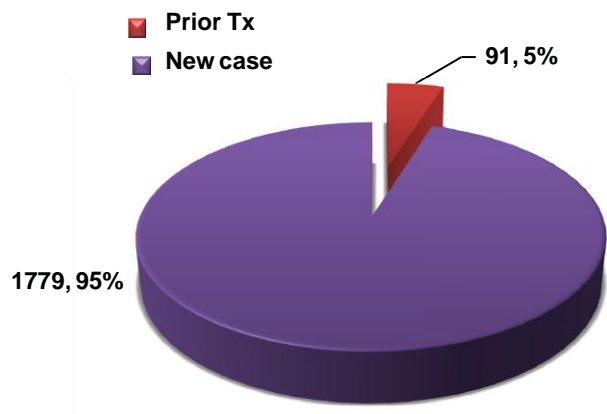


Fig 11: Age group distribution of lung cancer patients

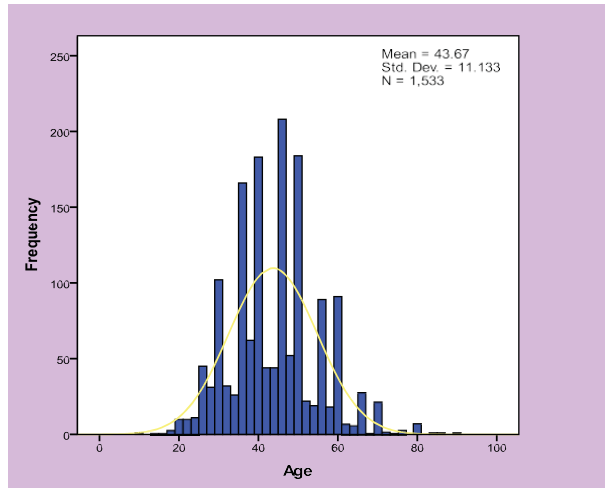


Male 1600 (85.3%), female 275 (14.7%) male female ratio 5.8:1. Mean age 58.84 year, SD±11.91 year

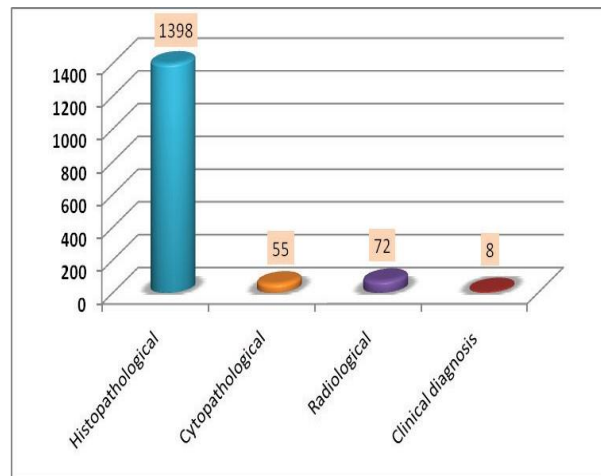
Fig 12: Case Referral (lung cancer)

Table 14: Morphology of lung cancer (N=1875)

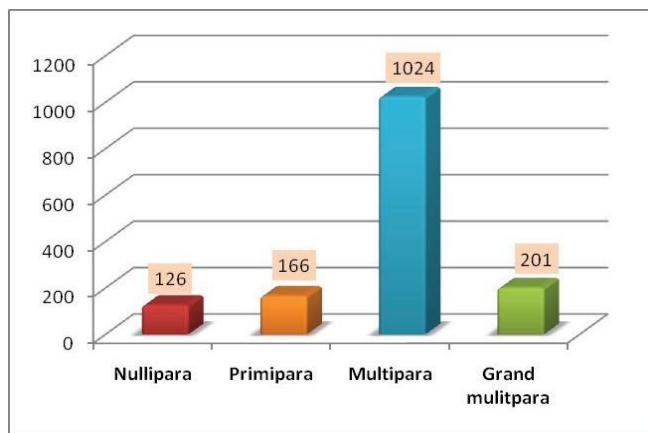
Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	1086	57.9
2.	Adenocarcinoma	392	20.9
3.	Malignant tumour	210	11.2
4.	Small cell ca	181	9.7
5.	Large cell ca	05	0.3
6.	Gaint cell type	01	0.1
7.	Total	1875	100.0



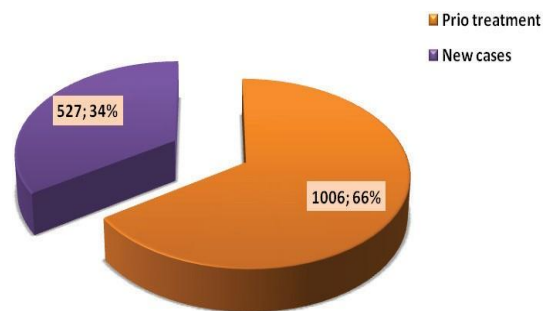
**Fig 13:** Age group distribution of breast cancer patients  
Mean age 43.67 Years, SD ± 11.13 Years



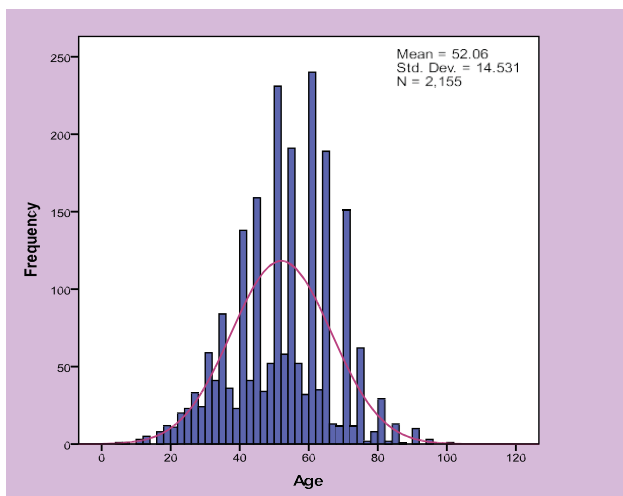
**Fig 14:** Diagnostic status (n=1533)



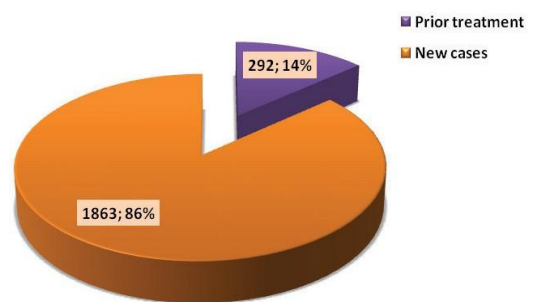
**Fig 15:** Parity and breast cancer (n=1517)



**Fig 16:** Case referral (Breast cancer)



**Fig 17:** Age group distribution (GIT)  
Mean age 52.06 years, SD ± 14.53 years, M: F= 1.9:1.



**Fig 18:** Case referral (GIT)

## Primary site of GI cancer

Table 15 : Primary site of GI cancer

Primary site of tumour	Sex		Total
	Male	Female	
Oesophagus	375 (26.8)	179 (23.7)	554 (25.7)
Gastric antrum	3 (0.2)	1 (0.1)	4 (0.2)
Stomach	299 (21.4)	104 (13.8)	403 (18.7)
Duodenum	3 (0.20)	0 (0.0)	3 (0.1)
Jejunum	01 (0.1)	01 (0.1)	2 (0.1)
Ileum	4 (0.3)	5 (0.7)	9 (0.3)
Cecum	9 (0.6)	7 (0.9)	16 (0.7)
Hepatic flexure	6 (0.4)	2 (0.3)	8 (0.4)
Sigmoid colon	5 (0.4)	0 (0.0)	5 (0.2)
Colon	86 (6.1)	47 (6.2)	133 (6.2)
Rectum	191 (13.6)	140 (18.5)	331 (15.4)
Anal canal	13 (0.9)	11 (1.5)	24 (1.1)
Liver	286 (20.4)	118 (15.6)	404 (18.7)
Intra hepatic bile duct	0 (0.0)	1 (0.1)	1 (0.0)
Gall bladder	91 (6.5)	132 (17.5)	223 (10.3)
Bile duct	2 (0.1)	0 (0.0)	2 (0.1)
Ampula of vater	2 (0.1)	0 (0.0)	2 (0.1)
Head of pancreas	4 (0.3)	0 (0.0)	4 (0.2)
Pancreas	20 (1.4)	7 (0.9)	27 (1.3)
Total	1400 (100.0)	755 (100.0)	2155 (100.0)

## K. Bone

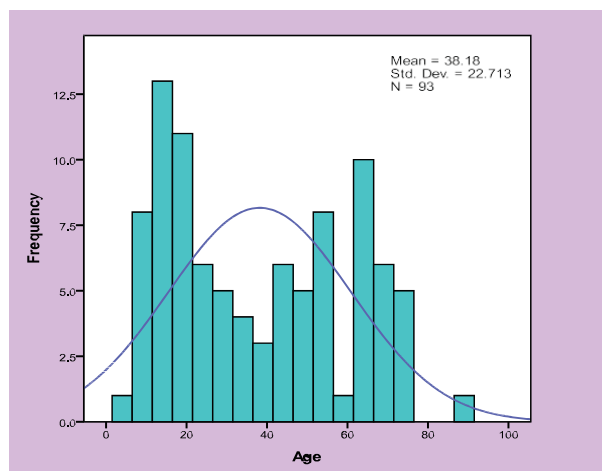


Fig. 19: Age distribution

Mean age 38.18 years, SD  $\pm$  22.7 years, M: F= 1.8: 1

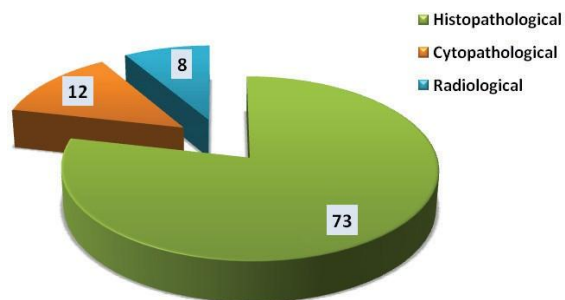


Fig. 20: Diagnostic status (Bone cancer)

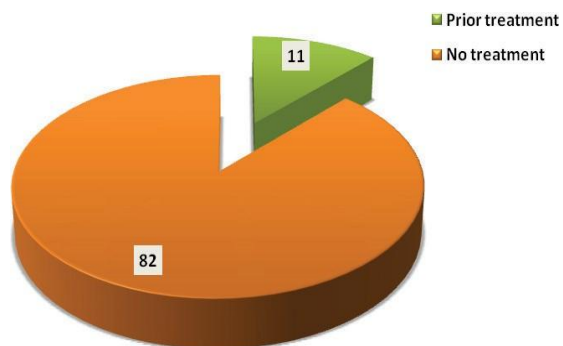


Fig. 21 : Case referral (Bone cancer)

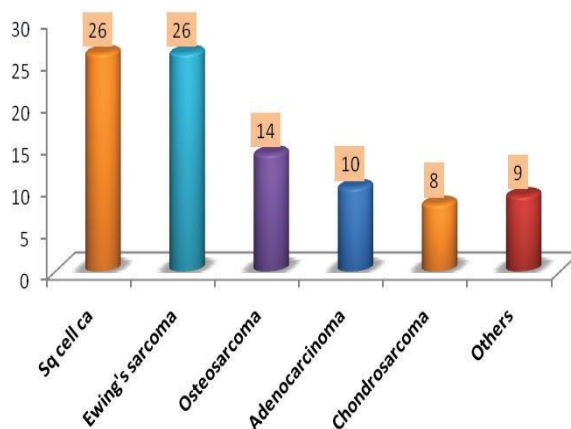


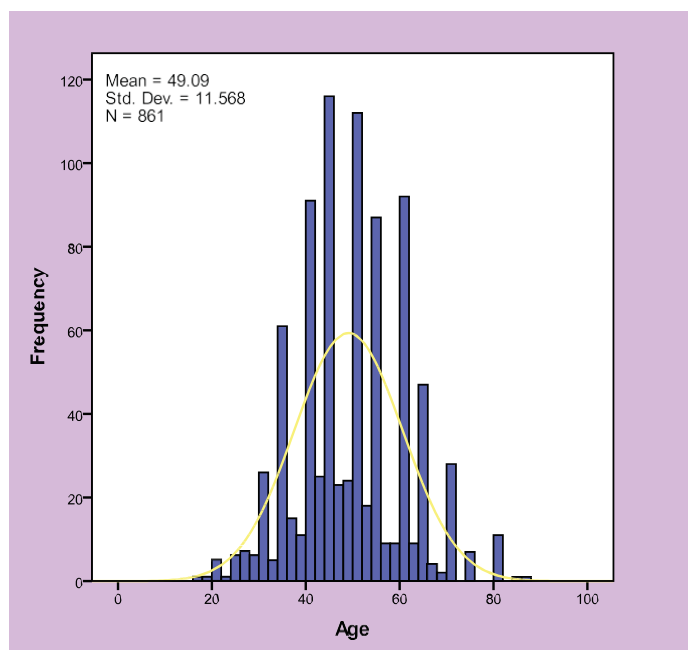
Fig. 22 : Histological pattern (Bone Cancer)

### L. Female genital organs

Table-16: Cancer of female genital organs

Site	Frequency	Percent
Cervix	861	77.4
Ovary	92	8.3
Uterus	70	6.3
Tubo-ovarian & Utero-ovarian	50	4.5
Adenexa	20	1.8
Vagina	18	1.6
Vulva	01	0.1
Placenta	01	0.1
Total	1113	100.0

### M. Cervical cancer:



**Fig. 23 :** Age distribution of cervical patients  
Mean age 49.09, SD±11.57

**Table 17: Morphology of cervical cancer (N=861)**

Morphology	Frequency	Percentage
Sq cell ca	805	93.5
Adenocarcinoma	48	5.6
Endrometroid ca	06	0.7
Others	02	0.2
Total	861	100.0

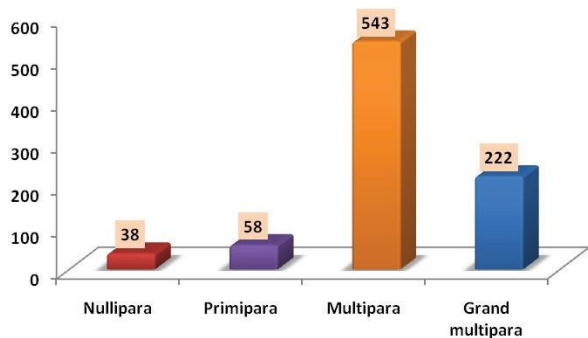


Fig. 24: Distribution of cervical patients by parity

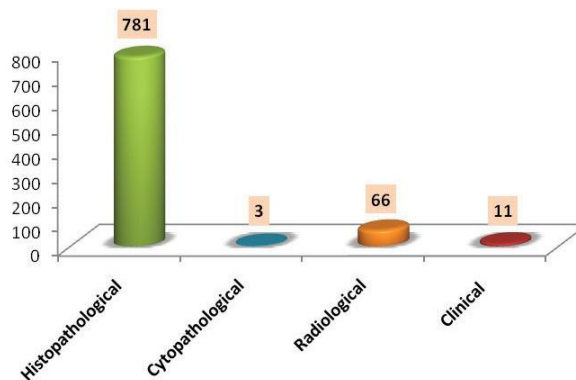


Fig. 25: Diagnostic status (Cx)

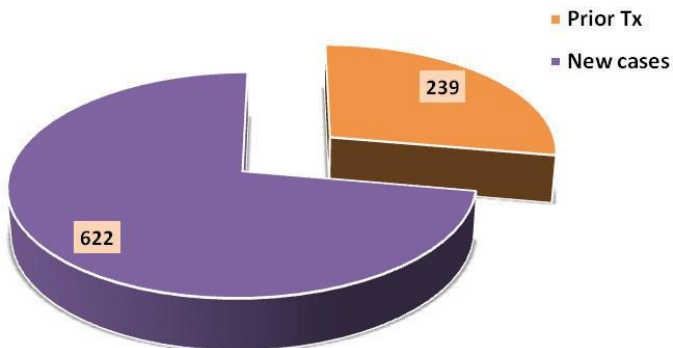


Fig. 26: Case referral (Cx)

## N. Ovary

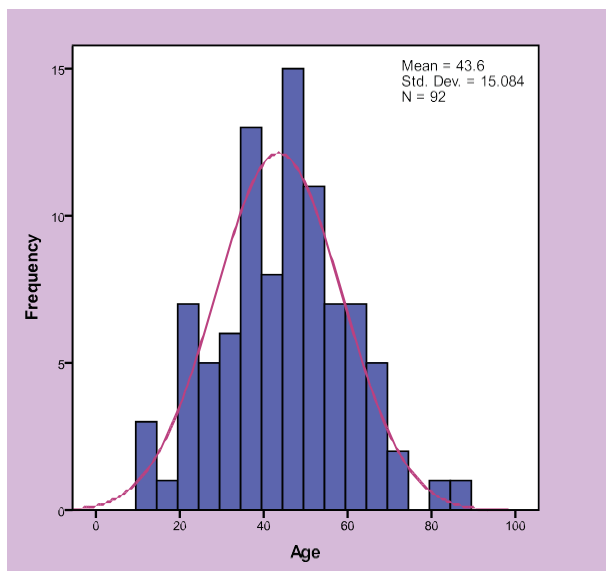


Fig. 27: Age distribution. Mean age 43.6 years SD± 15.08 years

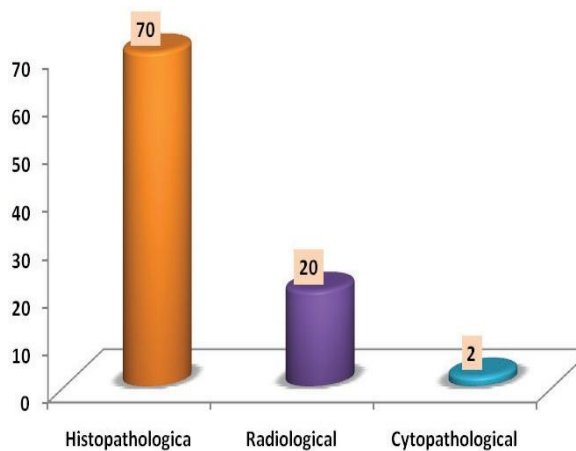


Fig. 28: Diagnostic status (ovarian ca)



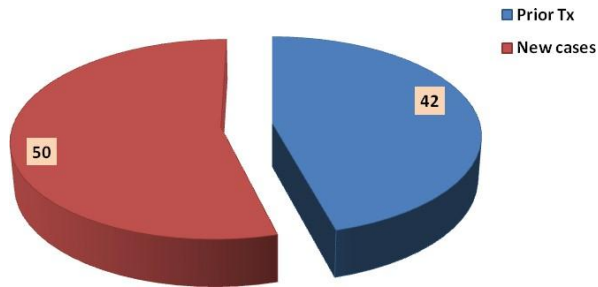


Fig. 29: Case referral (Ovarian cancer)

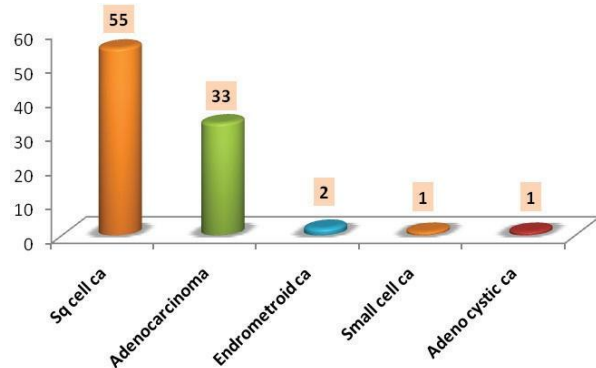


Fig. 30: Morphological type (Ovarian ca)

### O. Male genital organs

Table 18: Primary site

Site	Number	Percent
Penis	16	9.8
Prostate	121	73.8
Testis	27	16.5
Total	164	100.0

### P. Prostate

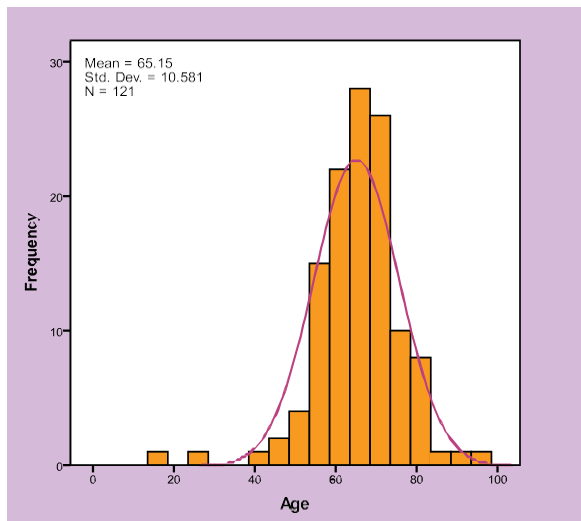


Fig. 31: Age distribution of the patients of prostate cancer  
Mean age 65.15 years, SD± 10.58

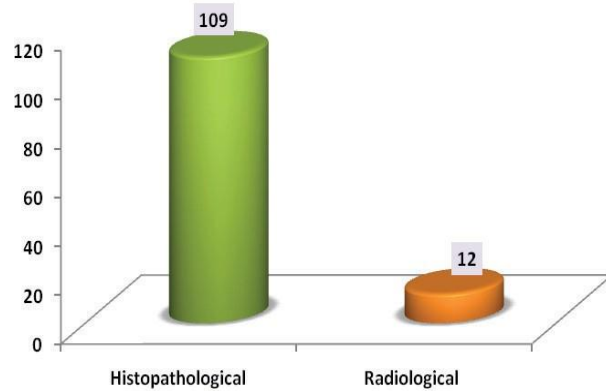


Fig. 32: Diagnostic status (prostate)

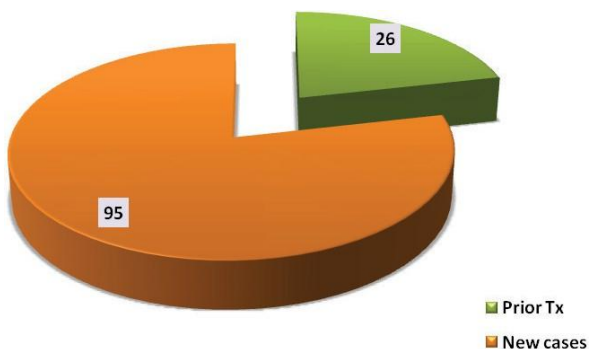


Fig. 33: Case referral (prostate ca)

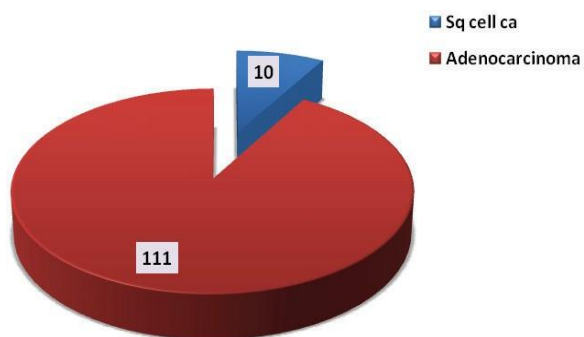


Fig. 34: Morphological type (prostate ca)

### Q. Kidney & related organs

Table 19: Cancer of kidney and related organs

Primary site of tumour	Sex		Total
	Male	Female	
Kidney	75 (31.4)	28 (38.3)	103 (33.0)
Renal pelvis	1 (0.4)	1 (1.4)	2 (0.6)
Bladder	163 (68.2)	44 (60.3)	207 (66.4)
Total	239 (100.0)	73 (100.0)	312 (100.0)

### R. U. Bladder

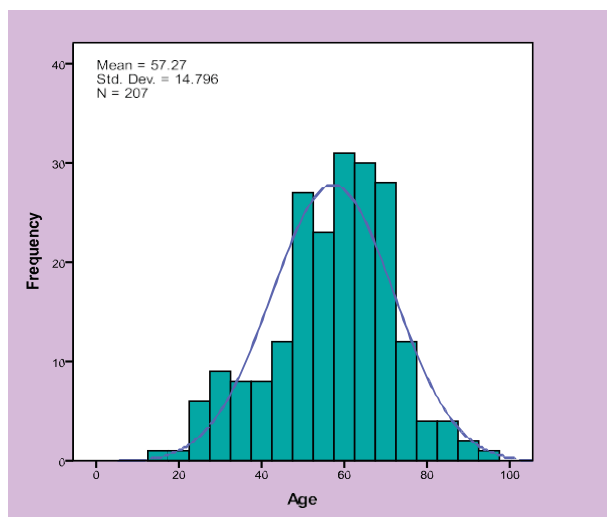


Fig. 35: Age distribution of the patients of Urinary Bladder  
Mean age 57.27 SD± 14.76, M: F= 3.7: 1

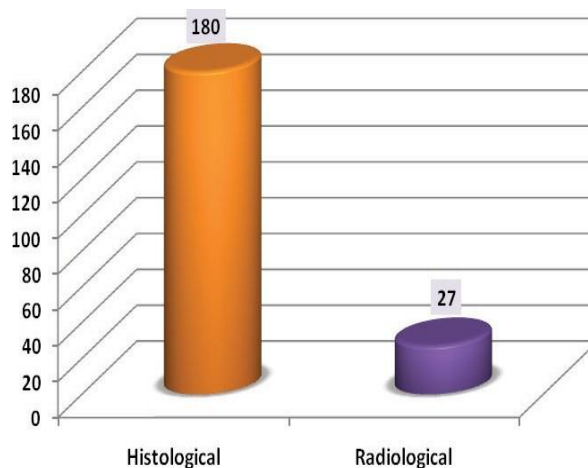
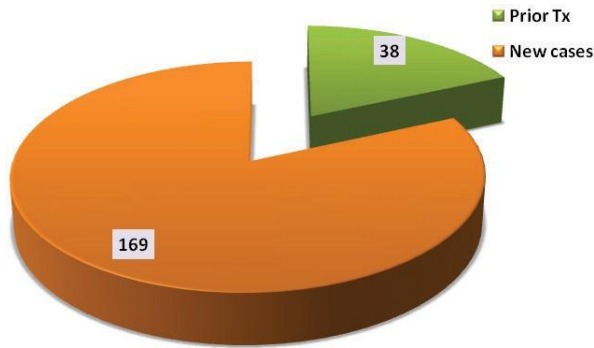
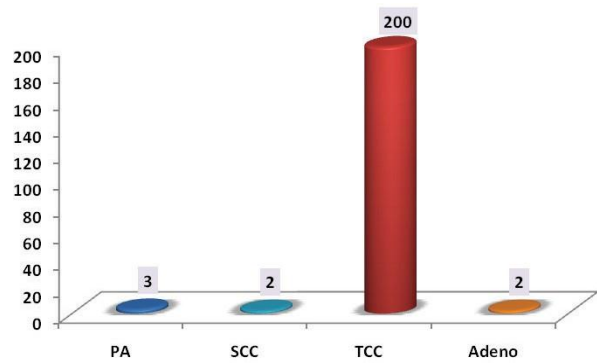


Fig. 36: Diagnostic status (Urinary Bladder ca)



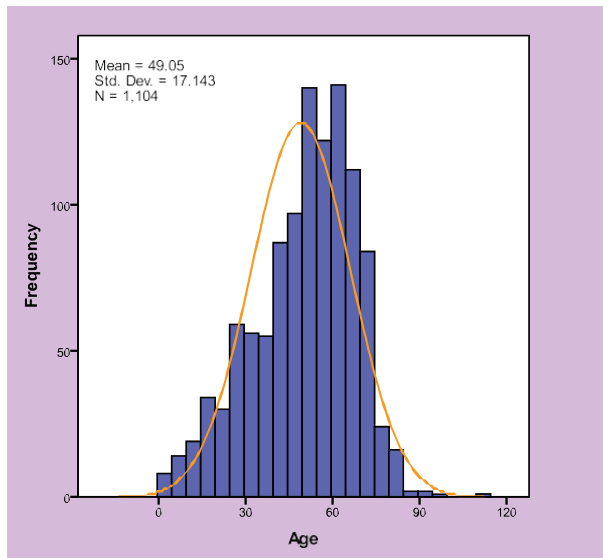
**Fig. 37:** Case referral (Urinary Bladder ca)



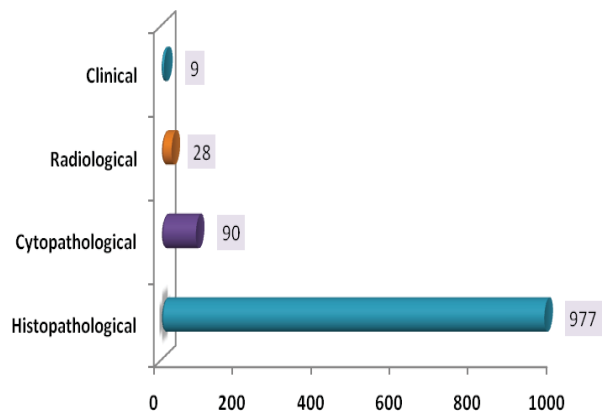
TCC Transitional cell carcinoma; SCC Squamous cell carcinoma; PA Papillary carcinoma; Adeno. Adenocarcinoma

**Fig. 38:** Morphological type of Urinary Bladder cancer

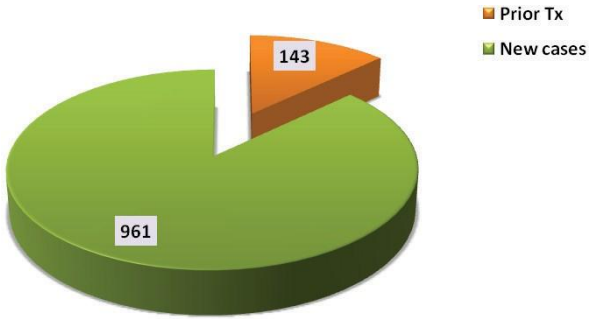
### S. Lymphatics & Lymph Node



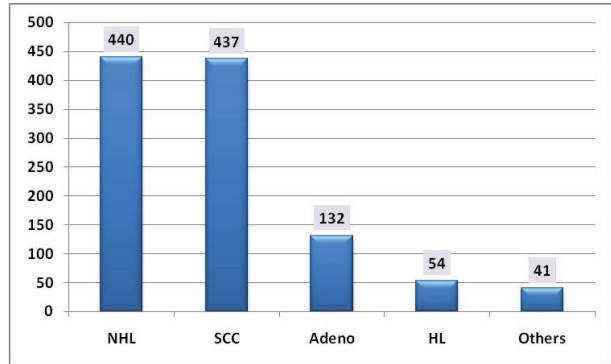
**Fig. 39:** Age distribution (Lymphatics and lymph nodes)  
Mean age 49.05 SD± 17.14 Years M: F= 2.3:1



**Fig. 40:** Diagnostic status (Lymphatics and lymph nodes)



**Fig. 41:** Case referral (Lymphatics and lymph nodes)



*NHL Non Hodgekin's Lymphoma; SCC Squamous Cell Carcinoma; Adeno. Adenocarcinoma; HL Hodgekin's Lymphoma*

**Fig. 42:** Morphological type (Lymphatics and lymph nodes)

# APPENDICES

### Appendix I : Age-specific distribution of cancer patients, NICRH (2016)

#### A. Male

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C00	LIP	0	1	0	0	1	1	0	0	0	3
C01.9	Base of the tongue	0	0	0	0	0	0	1	0	0	1
C02.9	Tongue	0	0	4	10	41	49	31	11	5	151
C04.9	Floor of the mouth	0	0	0	1	1	1	0	0	0	3
C05.0	Hard palate	0	0	0	1	0	0	3	0	0	4
C05.1	Soft palate	0	0	1	0	1	5	0	0	0	7
C05.2	Uvula	0	0	0	0	0	0	1	0	0	1
C05.9	Palate	0	0	0	1	2	3	3	1	0	10
C06.0	Cheek /buccal mucosa	1	1	6	12	25	29	14	6	0	94
C06.1	Vestibule of mouth	0	0	0	0	0	1	0	0	0	1
C06.9	Oral cavity/Buccal cavity	0	0	1	1	7	4	2	0	0	15
C07.9	Parotid Gland	1	2	7	1	6	4	2	0	0	23
C08.0	Sub mandibular/maxillary gland	2	3	2	7	7	19	13	1	2	56
C09.0	Tonsillar fossa	0	0	0	1	2	3	2	1	0	9
C09.9	Tonsil	0	0	2	4	20	23	18	7	1	75
C10.0	Valecula	0	0	1	0	2	1	2	0	0	6
C10.4	Branchial cleft	0	0	0	1	3	7	12	2	1	26
C10.9	Oropharynx	0	1	0	1	0	1	0	0	1	4
C11.9	Nasopharynx	1	5	4	5	5	4	3	0	1	28
C12.9	Pyrimiformsinus/fossa	0	0	4	9	15	36	32	11	1	108
C13.1	Aryepiglottic fold	0	0	0	0	0	1	0	1	0	2
C13.9	Hypopharynx	0	0	0	1	1	2	1	0	1	6
C14.0	Pharynx	0	2	1	1	3	7	4	4	1	23
C15.0	Cervical oesophagus	1	1	0	3	4	1	0	0	0	10
C15.9	Oesophagus	2	0	10	35	91	106	93	21	7	365
C16.3	Gastric antrum	0	0	1	0	2	0	0	0	0	3
C16.9	Stomach	0	4	18	25	86	77	61	25	3	299
C17.0	Duodenum	0	1	0	0	2	0	0	0	0	3
C17.1	Jejunum	0	0	0	0	0	1	0	0	0	1
C17.2	Ileum	0	0	0	1	0	1	1	1	0	4
C18.0	Cecum	0	0	0	3	3	1	2	0	0	9
C18.3	Hepatic flexure	0	1	0	0	3	0	2	0	0	6
C18.7	Sigmoid colon	0	2	1	0	0	1	1	0	0	5

## Appendix I : Age-specific distribution of cancer patients, NICRH (2016)

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C18.9	Colon	0	4	13	17	25	20	6	1	0	86
C20.9	Rectum	1	9	35	46	34	36	22	5	3	191
C21.1	Anal canal	0	0	3	0	2	3	5	0	0	13
C22.0	Liver	2	9	27	41	57	76	57	15	2	286
C23.9	Gall bladder	0	0	5	10	17	28	20	6	4	90
C24.0	Bile duct	0	0	0	0	2	0	0	0	0	2
C24.1	Ampula of vater	0	0	1	0	0	1	0	0	0	2
C25.0	Head of pancrease	0	0	0	0	3	0	1	0	0	4
C25.9	Pancrease	0	0	0	2	7	5	4	0	1	19
C30.0	Nasal cavity	0	0	2	0	1	0	2	0	0	5
C30.1	Middle ear , inner ear	0	0	2	0	0	4	0	1	0	7
C31.0	Maxillary sinuses	0	0	1	1	3	3	0	0	0	8
C31.2	Frontal sinuses	1	0	1	1	0	1	0	0	0	4
C32.0	Glottis, Vocal cord	0	0	0	4	27	34	15	3	2	85
C32.1	Supraglottis, Epiglottis,	0	0	3	8	35	28	19	10	0	103
C32.9	Larynx	0	0	4	7	35	37	36	11	1	131
C34.0	Bronchous	0	0	0	3	5	16	10	3	1	38
C34.9	Lung	5	11	25	80	284	558	467	115	17	1562
C38.4	Pleura	1	1	6	1	21	23	22	8	1	84
C41.0	Bones & articular cartilages of Skull & face	0	1	0	0	0	0	0	0	0	1
C41.2	Vertebra & Vertebral column	1	1	0	0	4	0	14	3	0	23
C41.9	Bones & articular cartilages	9	14	5	2	1	3	0	0	1	35
C42.0	Blood	27	39	17	15	13	12	2	1	0	126
C42.1	Bone marrow	1	0	2	3	4	1	2	1	0	14
C44.1	Skin of eye lid	0	0	0	0	1	0	0	0	0	1
C44.3	Skin of Face	0	0	0	0	0	1	0	0	0	1
C44.9	Skin	1	0	3	8	6	5	3	4	1	31
C48.1	Omentum, Pouch of duglus, Cal de sac	0	0	1	0	1	0	0	0	0	2
C49.0	Connective tissue of scalp/face/neck	1	2	1	2	2	2	2	3	1	16
C49.1	Connective tissue of UL,arm, forearm,hand,shoulder,thum,wris	3	5	1	2	6	2	2	2	0	23

## Appendix I : Age-specific distribution of cancer patients, NICRH (2016)

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C49.2	Connective tissue of LL,foot,leg, thigh,hip,knee	12	16	3	10	12	22	10	4	2	91
C49.9	Connective tissue	9	5	7	5	7	4	3	1	1	42
C50.9	Breast	0	0	2	0	6	2	4	0	0	14
C60.9	Penis	0	0	1	4	4	4	3	0	0	16
C61.9	Prostate	0	1	1	1	6	38	52	18	2	119
C62.9	Testis	1	5	13	4	1	1	2	0	0	27
C64.9	Kidney	6	4	4	10	20	16	9	6	0	75
C65.9	Renal pelvis	0	0	0	0	0	1	0	0	0	1
C67.9	Bladder	0	1	7	10	29	48	50	13	4	162
C69.0	Conjunctiva	0	0	0	1	1	1	2	0	0	5
C69.4	Eye ball	6	0	0	0	0	0	0	1	0	7
C69.6	Orbit	0	0	0	0	2	0	1	1	0	4
C69.9	Eye	8	0	1	0	1	2	3	0	0	15
C70.1	Spinal menengis	0	0	1	0	0	0	0	0	0	1
C70.9	Meninges (NOS)	0	0	1	0	3	1	0	0	0	5
C71.0	Cerebram	0	0	0	0	1	0	0	0	0	1
C71.1	Frontal lobe	0	0	0	1	0	0	0	0	0	1
C71.8	Brainstem	1	1	0	0	0	0	0	0	0	2
C71.9	Brain	13	10	15	20	24	20	7	2	0	111
C73.9	Thyroid	0	3	5	6	6	10	6	0	0	36
C76.0	Cheek, Jaw ,Nose	0	0	1	2	6	10	2	2	0	23
C76.2	Abdominal wall	0	0	0	0	1	0	0	0	0	1
C77.0	LN of Head face & Neck	7	19	20	36	80	130	90	22	1	405
C77.3	LN of axilla	0	1	0	2	3	2	0	0	0	8
C77.4	Inguinal region	0	0	0	5	5	1	4	1	0	16
C77.5	Pelvic LN	0	0	2	1	0	0	0	1	0	4
C77.9	LN	22	30	48	38	62	76	50	8	0	334
C80.9	Un known primary site	4	5	7	10	29	30	18	5	2	97
	Total	150	221	360	543	1238	1707	1324	369	71	5983



### Appendix II : Age-specific distribution of cancer patients, NICRH (2016)

#### B. Female

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C00	LIP	0	1	0	0	2	3	0	0	0	6
C02.9	Tongue	1	0	1	14	35	15	15	5	1	87
C03.9	Gum	0	0	0	0	3	2	0	0	1	6
C04.9	Floor of the mouth	0	0	0	0	1	3	0	2	0	6
C05.0	Hard palate	0	1	0	1	1	1	1	1	1	7
C05.1	Soft palate	0	2	0	1	2	1	0	0	0	6
C05.2	Uvula	0	0	1	1	2	3	0	0	0	7
C05.9	Palate	0	0	0	1	3	3	2	2	0	11
C06.0	Cheek /buccal mucosa	0	1	4	21	52	53	22	8	2	163
C06.9	Oral cavity/Buccal cavity	1	0	0	4	4	11	8	2	0	30
C07.9	Parotid Gland	0	4	4	6	4	4	0	0	0	22
C08.0	Sub mandibular/maxillary gland	0	0	3	4	6	10	6	1	0	30
C09.0	Tonsillar fossa	0	0	0	0	0	1	0	1	0	2
C09.9	Tonsil	0	0	0	3	3	5	2	0	0	13
C10.0	Valecula	0	0	0	0	1	0	2	0	0	3
C10.4	Branchial cleft	0	0	1	1	1	2	0	0	0	5
C11.9	Nasopharynx	1	0	2	2	3	1	1	0	0	10
C12.9	Pyriformsinus/fossa	1	0	1	4	3	1	0	0	0	10
C13.9	Hypopharynx	0	0	0	2	1	1	0	0	0	4
C14.0	Pharynx	0	0	0	0	2	0	0	1	0	3
C15.0	Cervical oesophagus	2	0	2	3	5	7	3	1	0	23
C15.9	Oesophagus	1	0	6	19	31	60	30	9	0	156
C16.3	Gastric antrum	0	1	0	0	0	0	0	0	0	1
C16.9	Stomach	0	1	8	27	25	22	18	3	0	104
C17.1	Jejunum	0	1	0	0	0	0	0	0	0	1
C17.2	Ileum	0	0	0	1	1	2	1	0	0	5
C18.0	Cecum	0	0	0	1	4	2	0	0	0	7
C18.3	Hepatic flexure	1	0	0	1	0	0	0	0	0	2
C18.7	Colon	0	2	6	10	14	9	5	1	0	47
C18.9	Rectum	0	13	23	28	42	23	8	3	0	140
C21.1	Anal canal	0	0	1	3	2	1	4	0	0	11
C22.0	Liver	0	4	17	19	40	22	12	3	0	117
C22.1	Intra hepatic bile duct	0	0	0	0	0	0	1	0	0	1

## Appendix II : Age-specific distribution of cancer patients, NICRH (2016)

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C23.9	Gall bladder	0	0	7	27	36	38	15	5	3	131
C25.9	Pancrease	0	1	1	1	0	0	4	0	0	7
C30.0	Nasal cavity	0	0	0	1	0	0	0	0	0	1
C30.1	Middle ear , inner ear	0	0	3	0	1	1	0	1	0	6
C31.0	Maxillary sinuses	0	1	0	0	3	1	2	1	0	8
C31.2	Frontal sinuses	0	0	0	1	1	0	0	0	0	2
C32.0	Glottis, Vocal cord	0	0	0	2	0	2	1	0	0	5
C32.1	Supraglottis, Epiglottis,	0	0	0	1	3	6	1	1	0	12
C32.9	Larynx	0	0	1	1	5	4	0	1	0	12
C34.0	Bronchous	0	0	1	1	3	1	1	1	0	8
C34.9	Lung	1	2	14	24	74	85	48	18	1	267
C38.4	Pleura	0	2	4	3	11	8	5	1	0	34
C41.1	Mendible & Jaw	0	0	0	0	2	0	0	0	0	2
C41.2	Vertebra & Vertebral column	0	3	1	3	5	2	1	1	0	16
C41.9	Bones & articular cartilages	5	3	1	3	1	1	1	0	0	15
C42.0	Blood	16	13	5	9	7	6	1	1	0	58
C42.1	Bone marrow	0	1	0	2	1	0	1	0	0	5
C44.1	Skin of eye lid	0	0	0	0	0	2	1	1	0	4
C44.3	Skin of Face	0	0	0	1	0	0	0	0	0	1
C44.9	Skin	0	2	1	1	3	4	3	2	0	16
C48.1	Omentum, Pouch of duglus, Cal de sac	0	0	0	2	3	2	0	0	0	7
C49.0	Connective tissue of scalp/face/neck	1	1	0	0	1	2	0	0	0	5
C49.1	Connective tissue of UL,arm, forearm,hand,shoulder,thum,wris	1	1	1	1	2	0	1	0	0	7
C49.2	Connective tissue of LL,foot,leg, thigh,hip,knee	4	7	5	6	8	4	1	1	0	36
C49.9	Connective tissue	5	5	4	1	5	0	0	0	0	20
C50.0	Breast (Nipple/areola)	0	0	0	1	0	1	0	0	0	2
C50.9	Breast	2	35	234	498	479	208	48	11	2	1517
C51.9	Vulva	0	0	0	1	0	0	0	0	0	1
C52.9	Vagina	0	0	3	0	6	5	4	0	0	18
C53.9	Cervix	0	8	52	204	295	199	84	17	2	861

## Appendix II : Age-specific distribution of cancer patients, NICRH (2016)

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C55.9	Uterus	0	1	7	19	21	13	6	1	1	69
C56.9	Ovary	3	8	11	21	26	14	7	1	1	92
C57.4	Adenexa	0	1	2	3	9	4	1	0	0	20
C57.8	Tubo overian & Utero overian	3	4	11	3	16	7	6	0	0	50
C58.9	Placenta, Foetal membrane	0	0	0	1	0	0	1	0	0	2
C64.9	Kidney	3	0	2	3	7	11	2	0	0	28
C65.9	Renal pelvis	0	0	0	0	1	0	0	0	0	1
C67.9	Bladder	0	5	4	7	9	6	9	3	1	44
C69.4	Eye ball	2	0	0	0	0	0	0	0	0	2
C69.6	Orbit	0	1	0	1	1	1	1	0	0	5
C69.9	Eye	2	0	0	1	0	0	0	0	0	3
C70.0	Cerebral meninges	0	0	0	0	0	1	0	0	0	1
C70.9	Meninges (NOS)	1	0	1	2	0	2	0	0	0	6
C71.1	Frontal lobe	1	0	0	0	0	0	0	0	0	1
C71.8	Brainstem	0	1	0	0	0	0	1	0	0	2
C71.9	Brain	10	6	9	5	6	8	6	0	0	50
C73.9	Thyroid	1	8	22	14	19	10	5	1	1	81
C74.9	Adrenal gland	0	0	0	0	0	1	0	0	0	1
C75.1	Pituitary gland	0	0	0	0	1	0	0	0	0	1
C76.0	Cheek, Jaw ,Nose	0	0	0	5	2	4	2	0	0	13
C77.0	LN of Head face & Neck	2	2	15	30	43	33	22	4	3	154
C77.3	LN of axilla	0	2	5	10	6	4	2	1	0	30
C77.4	Inguinal region	0	0	2	1	4	2	0	0	0	9
C77.5	Pelvic LN	0	0	0	2	3	0	1	0	0	6
C77.9	LN	10	10	23	17	3	0	1	0	0	130
C80.9	Un known primary site	2	4	5	33	29	15	9	3	1	101
Total		83	169	537	1150	1482	1001	466	123	21	5032

### Appendix III : Age-specific distribution of cancer patients, NICRH (2016)

#### Site and Histology

Site	Male	Female	Total	Site	Male	Female	Total
<b>Lip</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>Sub mandibular gland</b>	<b>56</b>	<b>30</b>	<b>86</b>
Sq cell ca	2	6	8	Small cell ca	2	0	2
Fibrosarcoma	1	0	1	Sq cell ca	43	24	67
<b>Base of the tongue</b>	<b>1</b>		<b>1</b>	Adenoid Sq cell ca	0	1	1
Sq cell ca	1		1	Adenocarcinoma	6	1	7
Tongue	151	87	238	Adeno cystic ca	3	1	4
Malignant tumor	0	1	1	Mucoepidermoid ca	0	2	2
Sq cell ca	151	86	237	Acinar cell carcinoma	1	0	1
<b>Gum</b>	<b>0</b>	<b>6</b>	<b>6</b>	Chondrosarcoma	0	1	1
Sq cell ca	0	6	6	Hodgkins' Lymphoma	1	0	1
<b>Floor of the mouth</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>Tonsillar fossa</b>	<b>9</b>	<b>2</b>	<b>11</b>
Sq cell ca	3	6	9	Sq cell ca	9	2	11
<b>Hard palate</b>	<b>4</b>	<b>7</b>	<b>11</b>	<b>Tonsil</b>	<b>75</b>	<b>13</b>	<b>88</b>
Sq cell ca	3	6	9	Sq cell ca	75	12	87
Adenocarcinoma	1	0	1	Adenocarcinoma	0	1	1
Mucoepidermoid ca	0	1	1	<b>Valecula</b>	<b>6</b>	<b>3</b>	<b>9</b>
<b>Soft palate</b>	<b>7</b>	<b>6</b>	<b>13</b>	Sq cell ca	6	3	9
Small cell ca	0	1	1	<b>Branchial cleft</b>	<b>26</b>	<b>5</b>	<b>31</b>
Sq cell ca	4	3	7	Small cell ca	1	1	2
Adenocarcinoma	1	1	2	Sq cell ca	21	3	24
Sarcoma	2	1	3	Adenocarcinoma	4	1	5
<b>Uvula</b>	<b>1</b>	<b>7</b>	<b>8</b>	<b>Oropharynx</b>	<b>4</b>		<b>4</b>
Sq cell ca	1	5	6	Sq cell ca	4		4
Adenocarcinoma	0	1	1	<b>Nasopharynx</b>	<b>27</b>	<b>9</b>	<b>36</b>
Malignant melanoma	0	1	1	Small cell ca	0	1	1
<b>Palate</b>	<b>10</b>	<b>11</b>	<b>21</b>	Sq cell ca	27	8	35
Sq cell ca	9	10	19	<b>Pyrimiformsinus/fossa</b>	<b>108</b>	<b>10</b>	<b>118</b>
Adenocarcinoma	0	1	1	Spindle cell ca	1	0	1
Neuroblastoma	1	0	1	Sq cell ca	106	9	115
<b>Cheek /buccal mucosa</b>	<b>94</b>	<b>163</b>	<b>257</b>	Seminoma	1	0	1
Sq cell ca	92	159	251	Ependymoma	0	1	1
Basal cell ca	0	1	1	<b>Aryepiglottic fold</b>	<b>2</b>		<b>2</b>
Adenocarcinoma	1	3	4	Sq cell ca	2		2
Dermato fibroma	1	0	1	<b>Hypopharynx</b>	<b>6</b>	<b>4</b>	<b>10</b>
<b>Vestibule of mouth</b>	<b>1</b>		<b>1</b>	Sq cell ca	6	4	10
Sq cell ca	1		1	Pharynx	23	3	26
<b>Oral cavity/Buccal cavity</b>	<b>15</b>	<b>30</b>	<b>45</b>	Sq cell ca	23	3	26
Sq cell ca	14	30	44	<b>Cervical oesophagus</b>	<b>10</b>	<b>23</b>	<b>33</b>
Adenoid Sq cell ca	1	0	1	Sq cell ca	6	19	25
<b>Parotid Gland</b>	<b>23</b>	<b>22</b>	<b>45</b>	Adenocarcinoma	1	3	4
Sq cell ca	6	10	16	Hodgkins' Lymphoma	3	1	4
Adenocarcinoma	5	2	7	<b>Oesophagus</b>	<b>365</b>	<b>156</b>	<b>521</b>
Adeno cystic ca	2	0	2	Malignant tumour	2	0	2
Endometroid ca	1	0	1	Small cell ca	3	0	3
Mucoepidermoid ca	9	9	18	Papillary ca	1	0	1
Acinar cell carcinoma	0	1	1	Sq cell ca	318	145	463

## Appendix III : Age-specific distribution of cancer patients, NICRH (2016)

Site	Male	Female	Total	Site	Male	Female	Total
<b>Gastric antrum</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>Bile duct</b>	<b>2</b>		<b>2</b>
Sq cell ca	1	0	1	Cholangiocarcinoma	2		2
Basal cell ca	1	0	1	<b>Ampula of vater</b>	<b>2</b>		<b>2</b>
Adenocarcinoma	1	1	2	Sq cell ca	1		1
<b>Stomach</b>	<b>299</b>	<b>104</b>	<b>403</b>	Adenocarcinoma	1		1
Malignant tumour	127	38	165	Head of pancreas	4		4
Sq cell ca	22	8	30	Adenocarcinoma	4		4
Adenocarcinoma	150	58	208	<b>Pancreas</b>	<b>20</b>	<b>7</b>	<b>27</b>
<b>Duodenum</b>	<b>3</b>		<b>3</b>	Sq cell ca	5	0	5
Small cell ca	1		1	Adenocarcinoma	15	7	22
Adenocarcinoma	2		2	<b>Nasal cavity</b>	<b>5</b>	<b>1</b>	<b>6</b>
<b>Jejunum</b>	<b>1</b>	<b>1</b>	<b>2</b>	Sq cell ca	2	0	2
Adenocarcinoma	1	1	2	Adenocarcinoma	1	0	1
<b>Ileum</b>	<b>4</b>	<b>5</b>	<b>9</b>	Adeno cystic ca	1	0	1
Sq cell ca	1	3	4	Neuroblastoma	1	1	2
Adenocarcinoma	2	2	4	<b>Middle ear, inner ear</b>	<b>7</b>	<b>6</b>	<b>13</b>
Hodgkins' Lymphoma	1	0	1	Sq cell ca	6	4	10
<b>Cecum</b>	<b>9</b>	<b>7</b>	<b>16</b>	Basal cell ca	0	1	1
Sq cell ca	1	1	2	Adeno cystic ca	0	1	1
Adenocarcinoma	8	6	14	Granulosa cell tumour	1	0	1
<b>Hepatic flexure</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>Maxillary sinuses</b>	<b>8</b>	<b>8</b>	<b>16</b>
Sq cell ca	4	1	5	Sq cell ca	7	7	14
Adenocarcinoma	0	1	1	Adenocarcinoma	1	0	1
<b>Sigmoid colon</b>	<b>5</b>		<b>5</b>	Haemangiosarcoma	0	1	1
Adenocarcinoma	5		5	<b>Frontal sinuses</b>	<b>4</b>	<b>2</b>	<b>6</b>
<b>Colon</b>	<b>86</b>	<b>47</b>	<b>133</b>	Sq cell ca	1	1	2
Spindle cell ca	1	0	1	Adenocarcinoma	0	1	1
Sq cell ca	7	5	12	Glioma	1	0	1
Adenocarcinoma	78	42	120	Astrocytoma	1	0	1
<b>Rectum</b>	<b>191</b>	<b>140</b>	<b>331</b>	Glioblastoma	1	0	1
Sq cell ca	32	25	57	<b>Glottis, Vocal cord</b>	<b>85</b>	<b>5</b>	<b>90</b>
Adenocarcinoma	159	114	273	Sq cell ca	85	5	90
Mucoepidermoid ca	0	1	1	<b>Supraglottis, Epiglottis</b>	<b>103</b>	<b>12</b>	<b>115</b>
<b>Anal canal</b>	<b>13</b>	<b>11</b>	<b>24</b>	Sq cell ca	103	10	113
Sq cell ca	10	7	17	Adenocarcinoma	0	2	2
Adenocarcinoma	3	4	7	<b>Larynx</b>	<b>131</b>	<b>12</b>	<b>143</b>
<b>Liver</b>	<b>286</b>	<b>118</b>	<b>404</b>	Spindle cell ca	1	0	1
Sq cell ca	3	1	4	Sq cell ca	130	12	142
Transitional cell ca	1	0	1	<b>Bronchous</b>	<b>38</b>	<b>8</b>	<b>46</b>
Adenocarcinoma	3	1	4	Small cell ca	1	0	1
Hepatocellular ca	279	116	395	Sq cell ca	37	7	44
Intra hepatic bile duct	1	1		Adenocarcinoma	0	1	1
Cholangiocarcinoma		1	1				
<b>Gall bladder</b>	<b>91</b>	<b>132</b>	<b>223</b>				
Sq cell ca	2	7	8				
Adenocarcinoma	89	125	214				

## Appendix III : Age-specific distribution of cancer patients, NICRH (2016)

Site	Male	Female	Total	Site	Male	Female	Total
<b>Lung</b>	<b>1562</b>	<b>267</b>	<b>1829</b>	<b>Bone marrow</b>	<b>14</b>	<b>5</b>	<b>19</b>
Malignant tumour	179	29	208	Multiple myeloma	8	2	10
Giant cell type	1	0	1	Acute Lymphoblastic Leukemia	2	0	2
Large cell ca	5	0	5	Chronic Lymphocytic Leukemia	0	1	1
Small cell ca	161	19	180	Acute Myeloid Granulocytic Leukemia	3	0	3
Sq cell ca	911	131	1042	Chronic Myeloid Granulocytic Leukemia	1	2	3
Adenocarcinoma	304	87	391	Skin of eye lid	1	4	5
Hepatocellular ca	1	0	1	Giant cell ca	0	1	1
Duct cell ca	0	1	1	Sq cell ca	1	3	4
<b>Pleura</b>	<b>79</b>	<b>29</b>	<b>108</b>	<b>Skin of Face</b>	<b>1</b>	<b>1</b>	<b>2</b>
Small cell ca	2	2	4	Sq cell ca	0	1	1
Sq cell ca	65	20	85	Basal cell ca	1	0	1
Adenocarcinoma	10	7	17	<b>Skin</b>	<b>31</b>	<b>16</b>	<b>47</b>
Adeno cystic ca	2	0	2	Epithelial carcinoma	0	1	1
<b>Bones &amp; articular cartilages of Skull &amp; face</b>	<b>1</b>		<b>1</b>	Spindle cell ca	1	1	2
Chondrosarcoma	1		1	Sq cell ca	20	6	26
<b>Mandible &amp; Jaw</b>		<b>2</b>	<b>2</b>	Basal cell ca	4	8	12
Sq cell ca		2	2	Adenocarcinoma	1	0	1
<b>Vertebra &amp; Vertebral column</b>	<b>23</b>	<b>16</b>	<b>39</b>	Malignant melanoma	4	0	4
Malignant tumour	1	0	1	Demato fibroma	1	0	1
Spindle cell ca	1	1	2	<b>Orbit, Puff of eyelids, Callosae</b>	<b>2</b>	<b>7</b>	<b>9</b>
Small cell ca	1	0	1	Sq cell ca	1	2	3
Sq cell ca	13	10	23	Adenocarcinoma	0	3	3
Adenocarcinoma	6	4	10	Adeno cystic ca	0	1	1
Follicular ca	0	1	1	Papillary adenocarcinoma	0	1	1
Multiple myeloma	1	0	1	Choriocarcinoma	1	0	1
<b>Bones &amp; articular cartilages</b>	<b>35</b>	<b>15</b>	<b>50</b>	<b>Connective tissue of scalp/face/neck</b>	<b>16</b>	<b>5</b>	<b>21</b>
Giant cell type	2	0	2	Malignant tumour	1	0	1
Sq cell ca	0	1	1	Spindle cell ca	0	1	1
Osteosarcoma	9	5	14	Sq cell ca	12	2	14
Chondrosarcoma	3	4	7	Adenocarcinoma	1	0	1
Ewing's sarcoma	21	5	26	Papillary adenocarcinoma	0	1	1
<b>Blood</b>	<b>126</b>	<b>58</b>	<b>184</b>	Chondrosarcoma	1	0	1
Angiosarcoma	0	1	1	Ewing's sarcoma	1	0	1
Leukemia	4	0	4	Ependymoma	0	1	1
Acute Lymphoblastic Leukemia	76	38	114				
Chronic Lymphocytic Leukemia	0	1	1				
Acute Myeloid Granulocytic Leukemia	35	12	47				
Chronic Myeloid Granulocytic Leukemia	11	6	17				

## Appendix III : Age-specific distribution of cancer patients, NICRH (2016)

Site	Male	Female	Total	Site	Male	Female	Total
<b>Connective tissue of UL, arm, forearm, hand, shoulder, fun, wrist</b>	<b>23</b>	<b>7</b>	<b>30</b>	<b>Breast</b>	<b>14</b>	<b>1517</b>	<b>1531</b>
Malignant tumour	2	0	2	Malignant tumour	0	1	1
Spindle cell ca	0	1	1	Sq cell ca	0	2	2
Small cell ca	1	1	2	Adenocarcinoma	1	1	2
Sq cell ca	6	2	8	Duct cell ca	13	1513	1526
Adenocarcinoma	3	0	3	Vulva		1	1
Sarcoma	3	0	3	Sq cell ca		1	1
Fibrous histiocytoma	1	0	1	<b>Vagina</b>		<b>18</b>	<b>18</b>
Liposarcoma	1	0	1	Small cell ca		1	1
Rhabdomyosarcoma	1	0	1	Sq cell ca		14	14
Osteosarcoma	4	3	7	Adenocarcinoma		3	3
Ewing's sarcoma	1	0	1	<b>Cervix</b>		<b>861</b>	<b>861</b>
<b>Connective tissue of LL, foot, leg, thigh, hip, knee</b>	<b>91</b>	<b>37</b>	128	Malignant tumour		1	1
Malignant tumour	3	0	3	Sq cell ca		805	805
Spindle cell ca	2	0	2	Adenocarcinoma		48	48
Sq cell ca	25	7	32	Endrometroid ca		6	6
Basal cell ca	0	1	1	Duct cell ca		1	1
Malignent melanoma	1	0	1	<b>Uterus</b>		<b>70</b>	<b>70</b>
Sarcoma	2	1	3	Malignant tumour		1	1
Fibrosarcoma	2	1	3	Sq cell ca		51	51
Fibrous histiocytoma	2	0	2	Adenocarcinoma		15	15
Dermato fibroma	1	0	1	Endrometroid ca		3	3
Liposarcoma	1	1	2	<b>Ovary</b>		<b>92</b>	<b>92</b>
Angiomyosarcoma	0	1	1	Small cell ca		1	1
Rhabdomyosarcoma	2	0	2	Sq cell ca		55	55
<b>Hæmangiosarcoma, Angiosarcoma</b>	1	0	1	Adenocarcinoma		33	33
Osteosarcoma	44	24	68	Adeno cystic ca		1	1
Chondrosarcoma	1	1	2	Endrometroid ca		2	2
Ewing's sarcoma	4	0	4	<b>Adenexa</b>		<b>18</b>	<b>18</b>
<b>Connective tissue</b>	<b>42</b>	<b>20</b>	<b>62</b>	Malignant tumour		1	1
Sarcoma	4	0	4	Sq cell ca		9	9
Fibrosarcoma	8	3	11	Adenocarcinoma		4	4
Fibrous histiocytoma	17	4	21	Adeno cystic ca		4	4
Liposarcoma	7	2	9	<b>Tuboverian &amp; Utero overian</b>		<b>49</b>	<b>49</b>
Leiomyosarcoma	1	1	2	Malignent tumour		2	2
Rhabdomyosarcoma	5	9	14	Sq cell ca		28	28
Ewing's sarcoma	0	1	1	Adenoid Sq cell ca		3	3
<b>Breast (Nipple/areola)</b>		<b>2</b>	<b>2</b>	Adenocarcinoma		7	7
Duct cell ca		2	2	Adeno cystic ca		7	7
				Papillary adenocarcinoma		1	1
				Teratoma		1	1

## Appendix III : Age-specific distribution of cancer patients, NICRH (2016)

Site	Male	Female	Total	Site	Male	Female	Total
<b>Placenta, Foetal membrane</b>		<b>1</b>	<b>1</b>	<b>Cerebral meninges</b>		<b>1</b>	<b>1</b>
Choriocarcinoma		1	1	Meningioma		1	1
<b>Penis</b>	<b>16</b>		<b>16</b>	<b>Spinal meninges</b>	<b>1</b>		<b>1</b>
Sq cell ca	11		11	Meningioma	1		1
Adenocarcinoma	4		4	<b>Meninges (NOS)</b>	<b>5</b>	<b>6</b>	<b>11</b>
Angiomyosarcoma	1		1	Sq cell ca	1	0	1
<b>Prostate</b>	<b>121</b>		<b>121</b>	Meningioma	4	6	10
Sq cell ca	10		10	<b>Cerebrum</b>	<b>1</b>		<b>1</b>
Adenocarcinoma	111		111	Meningioma	1		1
<b>Testis</b>	<b>27</b>		<b>27</b>	<b>Frontal lobe</b>	<b>1</b>	<b>1</b>	<b>2</b>
Sq cell ca	10		10	Sq cell ca	0	1	1
Adenocarcinoma	1		1	Ependymoma	1	0	1
Malignant melanoma	2		2	<b>Brainstem</b>	<b>2</b>	<b>2</b>	<b>4</b>
Embryonal sarcoma	3		3	Sq cell ca	1	0	1
Seminoma	7		7	Astrocytoma	1	2	3
Germ cell tumour	3		3	<b>Brain</b>	<b>111</b>	<b>50</b>	<b>161</b>
Teratocarcinoma	1		1	Small cell ca	1	0	1
<b>Kidney</b>	<b>75</b>	<b>28</b>	<b>103</b>	Sq cell ca	1	2	3
Sq cell ca	1	0	1	Adenocarcinoma	1	0	1
Basal cell ca	0	1	1	Fibrous histiocytoma	1	0	1
Renal cell ca	73	25	98	Glioma	20	7	27
Nephroblastoma	1	2	3	Ependymoma	7	0	7
<b>Renal pelvis</b>	<b>1</b>	<b>1</b>	<b>2</b>	Astrocytoma	54	24	78
Malignant tumour	1	0	1	Glioblastoma	21	10	31
Sq cell ca	0	1	1	Medulloblastoma	2	2	4
<b>Bladder</b>	<b>163</b>	<b>44</b>	<b>207</b>	Neuroblastoma	3	4	7
Papillary ca	3	0	3	Meningioma	0	1	1
Sq cell ca	2	0	2	<b>Thyroid</b>	<b>36</b>	<b>81</b>	<b>117</b>
Transitional cell ca	157	43	200	Papillary ca	36	80	116
Adenocarcinoma	1	1	2	Sq cell ca	0	1	1
<b>Conjunctiva</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>Adrenal gland</b>		<b>1</b>	<b>1</b>
Sq cell ca	5	0	5	Small cell ca		1	1
<b>Eye ball</b>	<b>7</b>	<b>2</b>	<b>9</b>	<b>Pituitary gland</b>		<b>1</b>	<b>1</b>
Retinoblastoma	7	2	9	Adenoma		1	1
<b>Orbit</b>	<b>4</b>	<b>5</b>	<b>9</b>	Cheek, Jaw ,Nose	23	13	36
Sq cell ca	3	3	6	Sq cell ca	20	12	32
Adenocarcinoma	1	1	2	Adenocarcinoma	2	1	3
Adeno cystic ca	0	1	1	Adeno cystic ca	1	0	1
<b>Eye</b>	<b>15</b>	<b>3</b>	<b>18</b>	<b>Abdominal wall</b>	<b>1</b>		<b>1</b>
Sq cell ca	3	0	3	Sq cell ca	1		1
Retinoblastoma	12	3	15				



## Appendix III : Age-specific distribution of cancer patients, NICRH (2016)

Site	Male	Female	Total	Site	Male	Female	Total
<b>Placenta, Foetal membrane</b>		<b>1</b>	<b>1</b>	<b>Cerebral meninges</b>		<b>1</b>	<b>1</b>
Choriocarcinoma		1	1	Meningioma		1	1
<b>Penis</b>	<b>16</b>		<b>16</b>	<b>Spinal meninges</b>	<b>1</b>		<b>1</b>
Sq cell ca	11		11	Meningioma	1		1
Adenocarcinoma	4		4	<b>Meninges (NOS)</b>	<b>5</b>	<b>6</b>	<b>11</b>
Angiomyosarcoma	1		1	Sq cell ca	1	0	1
<b>Prostate</b>	<b>121</b>		<b>121</b>	Meningioma	4	6	10
Sq cell ca	10		10	<b>Cerebrum</b>	<b>1</b>		<b>1</b>
Adenocarcinoma	111		111	Meningioma	1		1
<b>Testis</b>	<b>27</b>		<b>27</b>	<b>Frontal lobe</b>	<b>1</b>	<b>1</b>	<b>2</b>
Sq cell ca	10		10	Sq cell ca	0	1	1
Adenocarcinoma	1		1	Ependymoma	1	0	1
Malignant melanoma	2		2	<b>Brainstem</b>	<b>2</b>	<b>2</b>	<b>4</b>
Embryonal sarcoma	3		3	Sq cell ca	1	0	1
Seminoma	7		7	Astrocytoma	1	2	3
Germ cell tumour	3		3	<b>Brain</b>	<b>111</b>	<b>50</b>	<b>161</b>
Teratocarcinoma	1		1	Small cell ca	1	0	1
<b>Kidney</b>	<b>75</b>	<b>28</b>	<b>103</b>	Sq cell ca	1	2	3
Sq cell ca	1	0	1	Adenocarcinoma	1	0	1
Basal cell ca	0	1	1	Fibrous histiocytoma	1	0	1
Renal cell ca	73	25	98	Glioma	20	7	27
Nephroblastoma	1	2	3	Ependymoma	7	0	7
<b>Renal pelvis</b>	<b>1</b>	<b>1</b>	<b>2</b>	Astrocytoma	54	24	78
Malignant tumour	1	0	1	Glioblastoma	21	10	31
Sq cell ca	0	1	1	Meduloblastoma	2	2	4
<b>Bladder</b>	<b>163</b>	<b>44</b>	<b>207</b>	Neuroblastoma	3	4	7
Papillary ca	3	0	3	Meningioma	0	1	1
Sq cell ca	2	0	2	<b>Thyroid</b>	<b>36</b>	<b>81</b>	<b>117</b>
Transitional cell ca	157	43	200	Papillary ca	36	80	116
Adenocarcinoma	1	1	2	Sq cell ca	0	1	1
<b>Conjunctiva</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>Adrenal gland</b>		<b>1</b>	<b>1</b>
Sq cell ca	5	0	5	Small cell ca		1	1
<b>Eye ball</b>	<b>7</b>	<b>2</b>	<b>9</b>	<b>Pituitary gland</b>		<b>1</b>	<b>1</b>
Retinoblastoma	7	2	9	Adenoma		1	1
<b>Orbit</b>	<b>4</b>	<b>5</b>	<b>9</b>	Cheek, Jaw ,Nose	23	13	36
Sq cell ca	3	3	6	Sq cell ca	20	12	32
Adenocarcinoma	1	1	2	Adenocarcinoma	2	1	3
Adeno cystic ca	0	1	1	Adeno cystic ca	1	0	1
<b>Eye</b>	<b>15</b>	<b>3</b>	<b>18</b>	<b>Abdominal wall</b>	<b>1</b>		<b>1</b>
Sq cell ca	3	0	3	Sq cell ca	1		1
Retinoblastoma	12	3	15				

## Appendix III : Age-specific distribution of cancer patients, NICRH (2016)

Site	Male	Female	Total	Site	Male	Female	Total
<b>LN of Head face &amp; Neck</b>	<b>405</b>	<b>160</b>	<b>565</b>	<b>Un known primary site</b>	<b>97</b>	<b>88</b>	<b>185</b>
Large cell ca	2	0	2	Adenoma	0	1	1
Spindle cell ca	3	0	3	Malignent tumour	1	0	1
Small cell ca	14	1	15	Gaint cell type	2	5	7
Sq cell ca	273	106	379	Spindle cell ca	0	1	1
Basal cell ca	2	0	2	Small cell ca	5	3	8
Adenocarcinoma	86	41	127	Sq cell ca	52	46	98
Cholangiocarcinoma/ Bile duct carcinoma	1	0	1	Adenoid Sq cell ca	1	1	2
Hepatocellular ca	1	0	1	Basal cell ca	1	2	3
Mucoepidermoid ca	0	1	1	Adenocarcinoma	28	22	50
Malignent melanoma	1	0	1	Adeno cystic ca	0	3	3
Sarcoma	0	2	2	Malignent melanoma	1	0	1
Liposarcoma	0	1	1	Sarcoma	1	1	2
Seminoma	2	0	2	Fibrosarcoma	0	2	2
Ewing's sarcoma	1	0	1	Liposarcoma	2	0	2
Hodgkins' Lymphoma	19	8	27	Chondrosarcoma	1	0	1
<b>LN of axilla</b>	<b>8</b>	<b>30</b>	<b>38</b>	Ependymoma	1	0	1
Sq cell ca	5	28	33	Multiple myaloma	1	1	2
Basal cell ca	1	0	1	<b>Synovial sarcoma</b>	<b>11</b>	<b>9</b>	<b>20</b>
Adenocarcinoma	1	0	1	Sq cell ca	9	9	18
Liposarcoma	0	1	1	Adeno cystic ca	1	0	1
Hodgkins' Lymphoma	1	1	2	Chondrosarcoma	1	0	1
<b>LN of Inguinal region</b>	<b>16</b>	<b>9</b>	<b>25</b>				
Sq cell ca	11	7	18				
Adenocarcinoma	1	0	1				
Malignent melanoma	1	0	1				
Sarcoma	0	1	1				
Dermato fibroma	0	1	1				
Hodgkins' Lymphoma	3	0	3				
<b>Pelvic LN</b>	<b>4</b>	<b>5</b>	<b>9</b>				
Sq cell ca	3	3	6				
Adeno cystic ca	0	1	1				
Malignent melanoma	1	0	1				
Leiomyosarcoma	0	1	1				
<b>LN</b>	<b>335</b>	<b>130</b>	<b>465</b>				
Sq cell ca	0	1	1				
Adenocarcinoma	0	2	2				
NHL	320	120	440				
Hodgkins' Lymphoma	15	7	22				

# **Cancer Registry Report 2017**

In 2017, 27350 patients attended the Out-Patient Department (OPD) of NICRH of them 14044 (51.3%) new patients had either confirmed or provisional diagnosis of some sorts of cancer and included in this report. The rest were kept outside the report as they had no medical records with them at the time of data collection.

**Demography:**

Majorities (7465, 53.2%) of the patients were male and the rest 6579 (46.8%) patients were female giving rise to a male female ratio of 1.1:1. Mean age of the patients was 50.26 years with SD± 15.7 which ranged from 1 to 111 years. Among the all patients 94.2% (13228) were Muslims & 93.5% (13135) were married. A huge number of patients (34.8%, 4883) were illiterate & about 49% patients (6868) had attained primary level education. Agricultural activities were main profession of men (34.3%, 4816) while almost all the female (6249/6579) were housewives.

**Systemwise distribution:**

Cancer of the digestive organs (2857, 20.3%) were in the top position followed by respiratory system and intrathoracic organ cancer (2810, 20%), breast cancer (2095, 14.9%), lymph node cancer (1634, 11.6%), lip oral cavity and pharynx cancer (1470, 10.5%) and female genital organ cancer (1354, 9.6%).

**Leading sites:**

Lung was the leading site of cancers in both sexes (2189, 15.6%). Breast came up with 2nd position (2092, 14.9%). Cervix (1059, 7.5%), oesophagus (621, 4.4%), stomach (552, 3.9%), liver (509, 3.6%), rectum (426, 3%), cheek/buccal mucosa (395, 2.8%) gall bladder (271, 1.9%) and tongue (258, 1.8%) occupied the successive places.

Lung cancers occupied the first place in male patients (1845, 24.7%). Cancers of oesophagus (422, 5.7%), stomach (379, 5.1%) liver (350, 4.7%), rectum (262, 3.5%) and larynx (177, 2.4%) came next in that order.

Among female carcinoma of the breast lead the tally (2059, 31.1%) followed by cancer of cervix (1049, 15.9%), lung (344, 5.2%), cheek/buccal mucosa (221, 3.4%) and oesophagus (199, 3.0%).

**Residential status:**

Majority of the patients attended OPD of NICRH were from Dhaka division (4857, 34.6%) and next from Chattogram division (3073, 21.9%). The other divisional representations were as follows: Barishal (1474, 10.5%), Mymensingh (1357, 9.7%), Khulna (1338, 9.5%), Rajshahi (1248, 8.9%), Rangpur (370, 2.6%) and Sylhet (327, 2.3%).

**Smoking habit:**

About 74.8% (5587) male cancer patients were ever smoker and 32.8% (2449) were current smoker. Only 1.3% (83) female patients were ever smoker. Fifty six point five percent males (n=4125) were habituated with chewing tobacco. Among female this percentage was 52.5 (n=3455).

**Method of diagnosis:**

A total number of 10634 (75.7%) patients came to this hospital with confirmed histopathological diagnosis, 2112 (15.0%) patients had cytopathologically confirmed diagnosis. More than 8% patients (1178) reported suspected diagnosis based on radiological evidences and 95 (0.7%) patients were only clinically diagnosed as cancer patients.

**Paediatric cancer:**

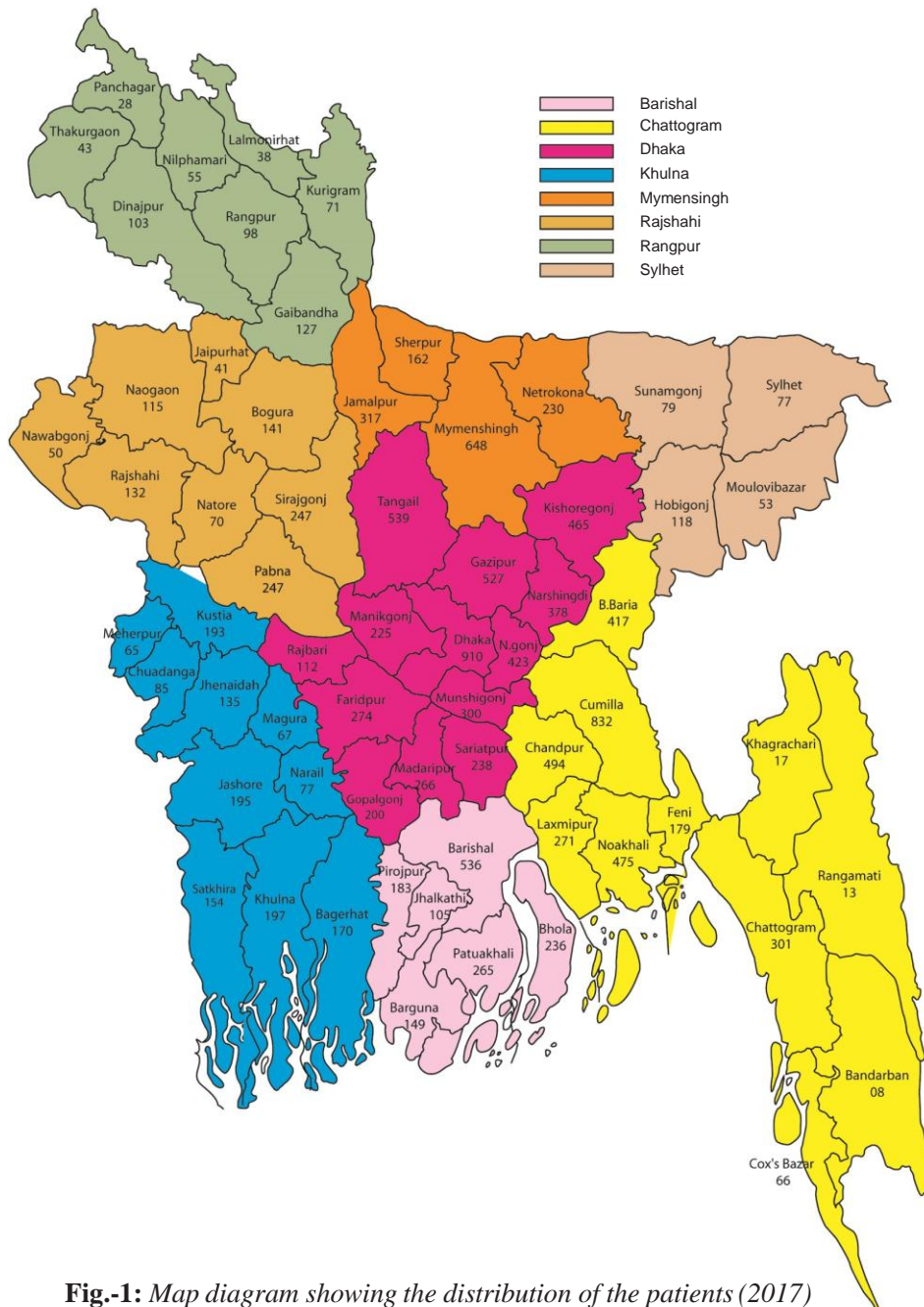
Paediatric cancer patients (0-15) were small in numbers. Only 348 (2.5%) paediatric patients reported at OPD during the period. Of them 215 (61.8%) were male child & 133 (38.2%) were female child. Lymphoma happen to be leading cause of cancer in this group (69, 19.8%) followed by leukaemia (59, 16.9%), cancer of the bones & articular cartilages (57, 16.4%), retinoblastomas (30, 8.6%). brain cancer (26, 7.5%) and

**Geriatric cancer:**

Patients of 65 years and above were considered as geriatric patients. About 21% (2932) of all cancer patients were from this age group. Most of them i.e. 2177 were male (74.2%) and the remaining 25.8 % (755) were female.

**Treatment received before attending NICRH:**

Most of the patients (77.2%, 10842) did not receive any kind of cancer treatment before attending NICRH, only 22.8% (3202) got some treatment before.



**Fig.-1: Map diagram showing the distribution of the patients (2017)**

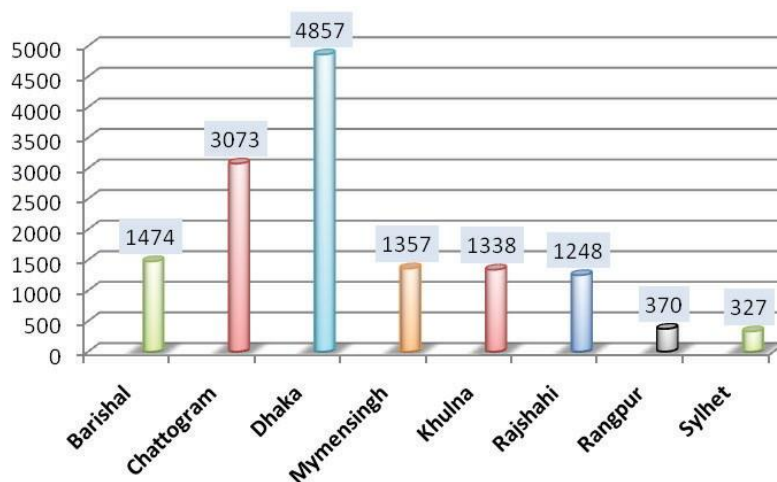


Fig.-2: Distribution of the patients by division

## A. Systemwise pattern

Table 1: Systemwise distribution of cancer

ICD-O	Primary site	Frequency	Percent
C00-C14	Lip, oral cavity and pharynx	1470	10.5
C15-C26	Digestive organ	2857	20.3
C30-C39	Respiratory system and intrathoracic organs	2810	20.0
C40-C41	Bones, joints and articular cartilage	108	0.8
C42	Haemopoietic and reticuloendothelial systems	253	1.8
C44	Skin	76	.5
C47	Peripheral nerve and autonomic nervous system	2	.0
C48	Retroperitoneum and peritoneum	7	.0
C49	Connective, subcutaneous and other soft tissues	296	2.1
C50	Breast	2095	14.9
C51-C58	Female genital organs	1354	9.6
C60-C63	Male genital organs	179	1.3
C64-C68	Urinary tract	351	2.5
C69-C72	Eye, brain and other parts of CNS	239	1.7
C73-C75	Thyroid and other endocrine glands	124	.9
C76	Other ill defined sites	39	.3
C77	Lymph nodes	1636	11.6
C80	Unknown primary site	148	1.1
	Total	14044	100.0

## B. Demography

**Table 2: Demographic characteristics of the cancer patients**

<b>Variables</b>	<b>Male (%) (n=7465)</b>	<b>Female (%) (n=6579)</b>	<b>Total (%) (n=10310)</b>
<i>Religion</i>			
Islam	7037 (94.3)	6191 (94.1)	13228 (94.2)
Hinduism	407 (5.5)	362 (5.5)	769 (5.5)
Christianity	13 (0.2)	17 (0.3)	30 (0.2)
Buddhism	8 (0.1)	9 (0.1)	17 (0.1)
<i>Marital status</i>			
Never married	429 (5.7)	221 (3.4)	650 (4.6)
Married	7034 (94.2)	6101 (92.7)	13135 (93.5)
Widowed	1 (0.0)	238 (3.6)	239 (1.7)
Divorced	1 (0.0)	19 (0.3)	19 (0.1)
<i>Education</i>			
Not applicable	82 (1.1)	50 (0.8)	132 (0.9)
Illiterate	2302 (30.8)	2581 (39.2)	4883 (34.8)
Primary	3765 (50.4)	3103 (47.2)	6868 (48.9)
Secondary	601 (8.1)	451 (6.9)	1052 (7.5)
Higher secondary	348 (4.7)	186 (2.8)	534 (3.8)
Graduate & above	367 (4.9)	208 (3.2)	575 (4.1)
<i>Occupation</i>			
Not applicable	81 (1.1)	49 (0.7)	130 (0.9)
Service	810 (10.9)	124 (1.9)	934 (6.7)
Business	841 (11.3)	10 (0.2)	851 (6.1)
Agriculture	4785 (64.1)	31 (0.5)	4816 (34.3)
Day labourer	211 (2.8)	0(0.0)	211 (1.5)
House wife	-	6182 (94.0)	4263 (41.3)
Retired/ aged	231 (3.1)	17 (0.3)	291 (2.8)
Industrial worker	59 (0.8)	1 (0.0)	60 (0.6)
Student	278 (3.7)	157 (2.4)	435 (3.4)
Others	169 (2.3)	8 (0.1)	8 (1.3)

### C. Leading sites of cancer

**Table 3: Top 10 malignancies**

Sl. No.	Site	Number	Percentage
1	Lung	2189	15.6
2	Breast	2095	14.9
4	Cervix	1059	7.5
3	Oesophagus	621	4.4
5	Stomach	552	3.9
6	Liver	509	3.6
7	Rectum	426	3.0
8	Cheek /buccal mucosa	395	2.8
9	Gall blader	271	1.9
10	Tongue	258	1.8

**Table 4: Top 10 cancers in male**

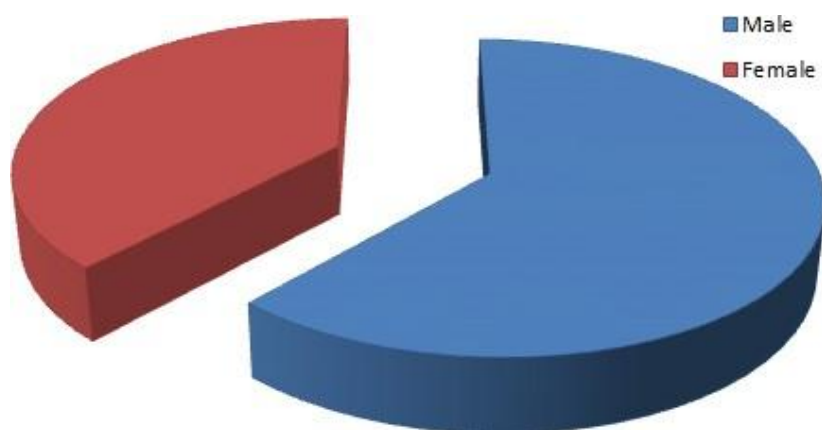
Sl. no.	Site	Number	Percentage
1	Lung	1845	24.7
2	Oesophagus	422	5.7
3	Stomach	379	5.1
4	Liver	350	4.7
5	Rectum	262	3.5
6	Larynx	177	2.4
7	Bladder	177	2.4
8	Cheek /buccal mucosa	174	2.3
9	Tongue	160	2.1
10	Pyriiformsinus/fossa	144	1.9



**Table 5: Top 10 cancers in female**

Sl. no.	Site	Number	Percentage
1	Breast	2059	31.1
2	Cervix	1049	15.9
3	Lung	344	5.2
4	Cheek /buccal mucosa	221	3.4
5	Oesophagus	199	3.0
6	Stomach	173	2.6
7	Rectum	164	2.5
8	Liver	159	2.4
9	Gall blader	142	2.2
10	Ovary	113	1.7

#### D. Special age group cancer:

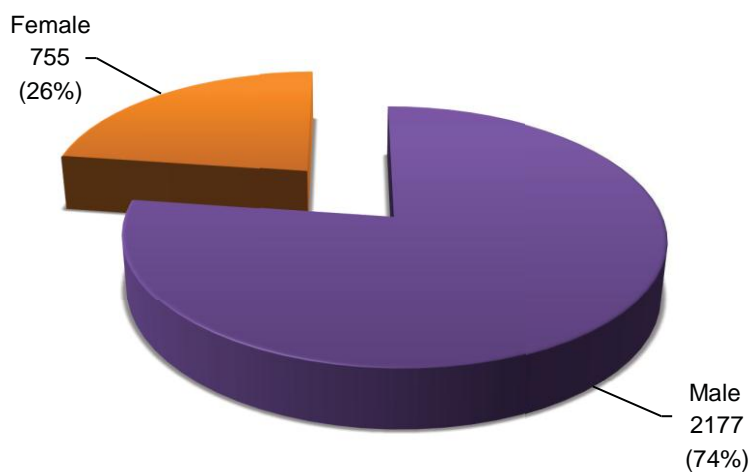
**Paediatric cancer (0-15 years)****Fig. 3: Paediatric cancers (n=348)**

**Table 6: Site of paediatric cancer (N=348)**

Sl. No.	Site of cancer	Frequency	Percent
1.	Lymph node	69	19.8
2.	Blood	59	17.0
3.	Bone and articular cartilages	57	16.4
4.	Connective tissue	47	13.5
5.	Eye	30	8.6
6.	Brain cancer	26	7.5
7.	Kidney	7	2.0
8.	Nasopharynx	6	1.7
9.	Lung	6	1.7
10.	Rectum	5	1.4

**Table 7: Morphology of paediatric cancer (n=348)**

Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	55	15.8
2.	Acute Lymphoblastic Leukemia	43	12.4
3.	NHL	40	11.5
4.	Ewing's sarcoma	33	9.5
5.	Retinoblastoma	30	8.6
6.	Hodgkins' Lymphoma	29	8.3
7.	Osteosarcoma	23	6.6
8.	Acute Myeloid/Granulocytic Leukemia	12	3.4
9.	Rhabdomyosarcoma	11	3.2
10.	Adenocarcinoma	8	2.3

Geriatric cancer ( $\geq 65$  years)

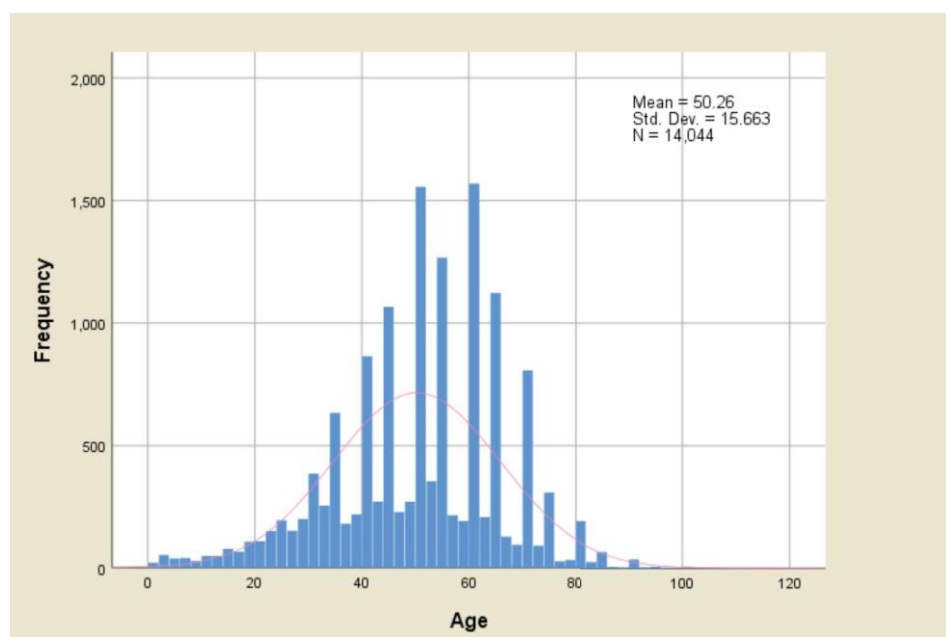
**Fig. 4:** Sex distribution of the geriatric patients (n=2932)

**Table 8:** Primary site of geriatric cancers (n=2932)

Sl. No.	Primary site of cancer	Frequency	Percent
1.	Lung	799	27.3
2.	Oesophagus	201	6.9
3.	Stomach	155	5.3
4.	Liver	110	3.8
5.	Breast	108	3.7
6.	Cervix	107	3.6
7.	Cheek /buccal mucosa	86	2.9
8.	Lymphoma	84	2.9
9.	Bladder	76	2.6
10.	Prostate	71	2.4

**Table 9: Morphology of geriatric cancer (n=2932)**

Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	1693	57.7
2.	Adenocarcinoma	551	18.8
3.	Hepatocellular ca	111	3.8
4.	Duct cell ca	108	3.7
5.	Malignent tumour	102	3.5
6.	Small cell ca	88	3.0
7.	Transitional cell ca	74	2.5
8.	NHL	69	2.4
9.	Renal cell ca	20	0.7
10.	Papillary ca	18	0.6

**All sites:****Fig. 5: Age distribution of all cancers (2017)**

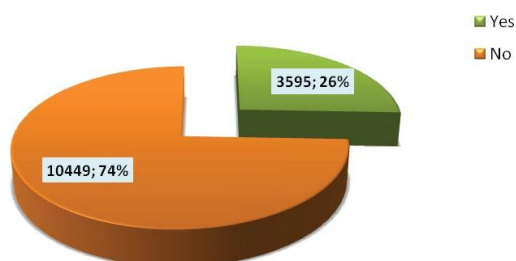


Fig. 6 : Received treatment outside NICRH

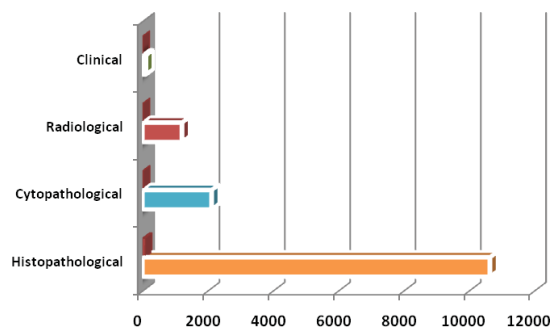


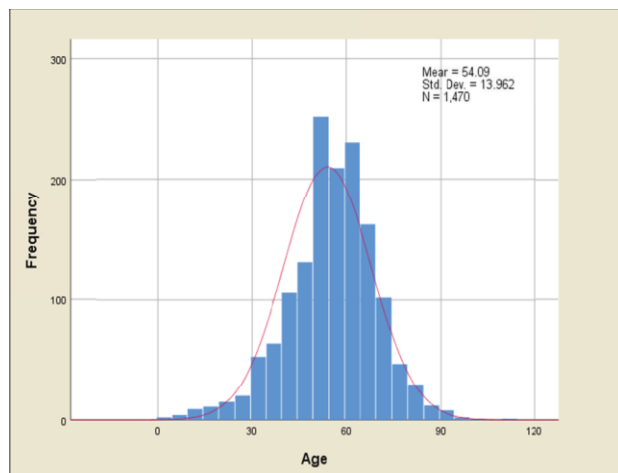
Fig. 7: Method of diagnosis

## F. Head & neck cancer (excepting nose)

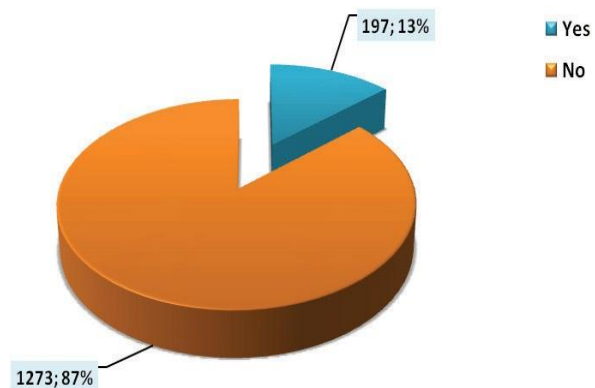
Table 10: Primary site of head &amp; neck cancer

Primary site of tumour	Sex		Total
	Male	Female	
LIP	11 (1.2)	2 (0.4)	13 (0.9)
Base of the tongue	8 (0.9)	2 (0.4)	10 (0.7)
Tongue	160 (17.5)	98 (17.6)	258 (17.6)
Gum	6 (0.7)	9 (1.6)	15 (1.0)
Floor of the mouth	18 (2.0)	15 (2.7)	33 (2.2)
Hard palate	7 (0.8)	3 (0.5)	10 (0.7)
Soft palate	27 (3.0)	15 (2.7)	42 (2.9)
Uvula	0 (0.0)	7 (1.3)	7 (0.5)
Palate	7 (0.8)	11 (2.0)	18 (1.2)
Cheek /buccal mucosa	174 (19.0)	221 (39.7)	395 (26.9)
Vestibule of mouth	0 (0.0)	2 (0.4)	2 (0.1)
Oral cavity/Buccal cavity	30 (3.3)	28 (5.0)	58 (3.9)
Parotid Gland	27 (3.0)	23 (4.1)	50 (3.4)
Sub mandibular/maxillary gland	58 (6.3)	42 (7.6)	100 (6.8)
Tonsillar fossa	8 (0.9)	2 (0.4)	10 (0.7)
Tonsil	94 (10.3)	12 (2.2)	106 (7.2)
Valecula	5 (0.5)	4 (0.7)	9 (0.6)
Branchial cleft	59 (6.5)	13 (2.3)	72 (4.9)
Oropharynx	3 (0.3)	1 (0.2)	4 (0.3)
Nasopharynx	29 (3.2)	10 (1.8)	39 (2.7)
Pyriformsinus/fossa	144 (15.8)	24 (4.3)	168 (11.4)
Cricoid	4 (0.4)	1 (0.2)	5 (0.3)
Aryepiglottic fold	10 (1.1)	2 (0.4)	12 (0.8)
Hypopharynx	3 (0.3)	0 (0.0)	3 (0.2)
Pharynx	21 (2.3)	9 (1.6)	30 (2.0)
Laryngopharynx	1 (0.1)	0 (0.0)	1 (0.1)
Total	914 (100.0)	556 (100.0)	1470 (100.0)

Percentages are given in the parenthesis



**Fig. 8:** Age distribution of H & N cancers  
M: F = 1.6: 1



**Fig. 9:** Case referral (H&N cancers)

## G. Respiratory System

**Table 11: Respiratory system cancers**

Primary site of tumour	Sex		Total
	Male	Female	
Nasal cavity	6 (0.3)	1 (0.2)	7 (0.2)
Middle ear, inner ear	7 (0.3)	4 (0.9)	11 (0.4)
Maxillary sinuses	14 (0.6)	13 (2.9)	27 (1.0)
Frontal sinuses	7 (0.3)	1 (0.2)	8 (0.3)
Glottis, Vocal cord	115 (4.9)	9 (2.0)	124 (4.4)
Supraglottis, Epiglottis	132 (5.6)	15 (3.4)	147 (5.2)
Larynx	177 (7.5)	26 (5.8)	203 (7.2)
Bronchus	83 (3.5)	22 (4.9)	105 (3.7)
Lung	1762 (74.5)	322 (72.4)	2084 (74.2)
Pleura	62 (2.6)	32 (7.2)	94 (3.3)
Total	2365 (100.0)	445 (100.0)	2810 (100.0)

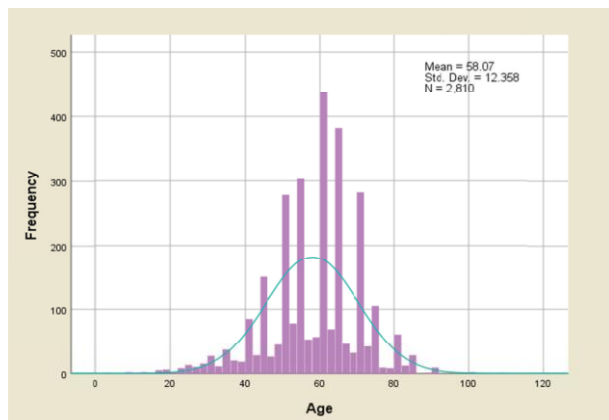


Fig. 10: Age distribution of respiratory cancers



Fig. 11: Sex distribution of respiratory cancers

### H. Lung cancer:

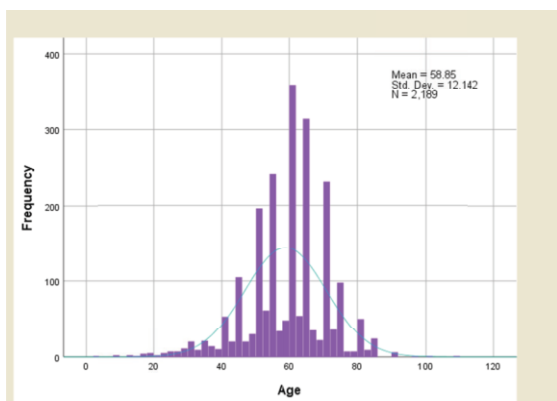


Fig. 12: Age group distribution of lung cancer patients

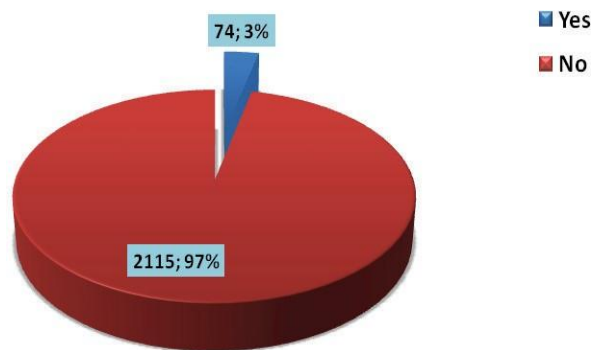


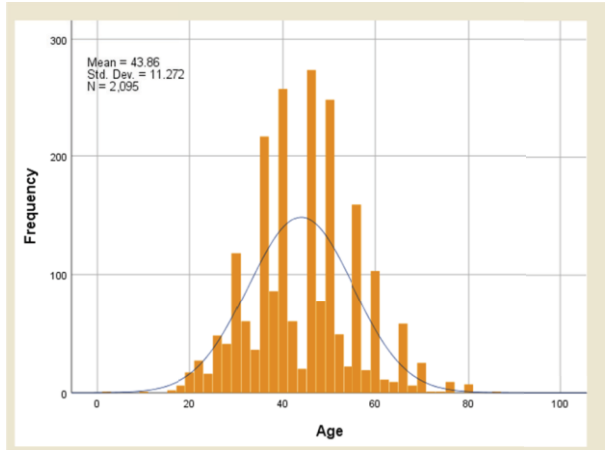
Fig. 13: Case Referral (lung cancer)

Male 1845 (84.3%), female 344 (15.7%) male female ratio 5.4:1.  
 Mean age 58.85 year, SD±12.14 year

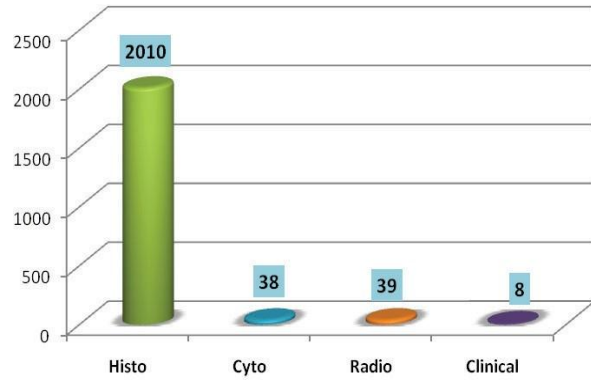
Table 12: Morphology of lung cancer (N=2189)

Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	1400	64.0
2.	Adenocarcinoma	455	20.8
3.	Small cell ca	223	10.2
4.	Others	111	5.1
	Total	2189	100.0

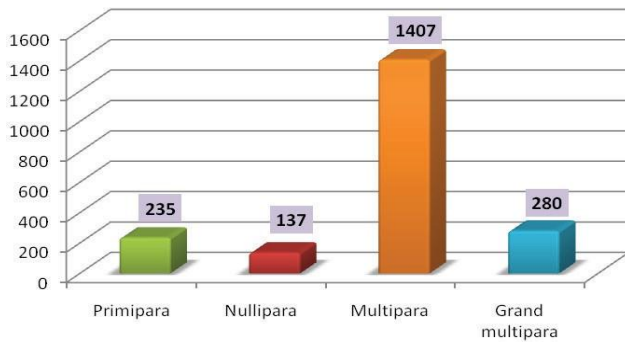
**I. Breast cancer:**



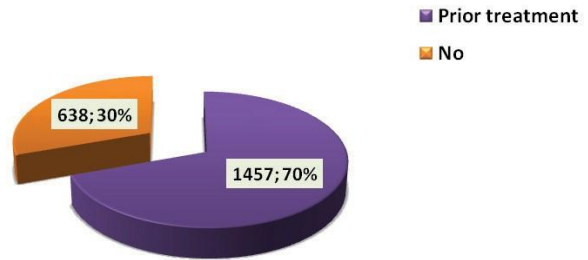
**Fig. 14:** Age group distribution of breast cancer patients  
Mean age 43.86 Years, SD ± 11.27Years



**Fig. 15:** Diagnostic status (n=2095)

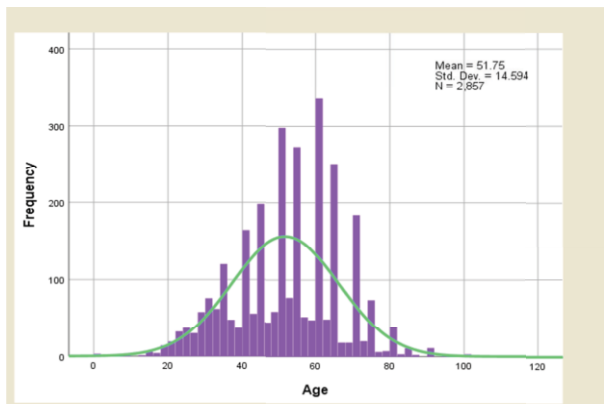


**Fig. 16:** Parity and breast cancer (n=2059)

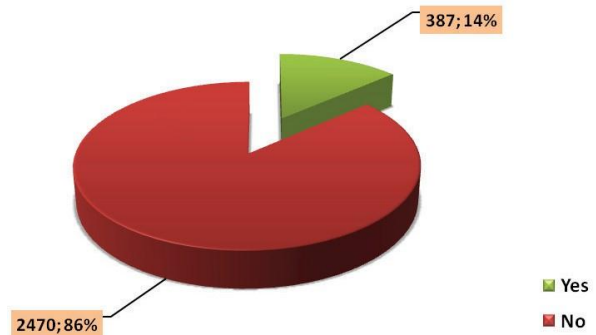


**Fig. 17:** Case referral (Breast cancer)

**J. GIT**



**Fig. 18:** Age group distribution (GIT)  
Mean age 51.75 years, SD± 14.59 years, M: F= 1.8:1.



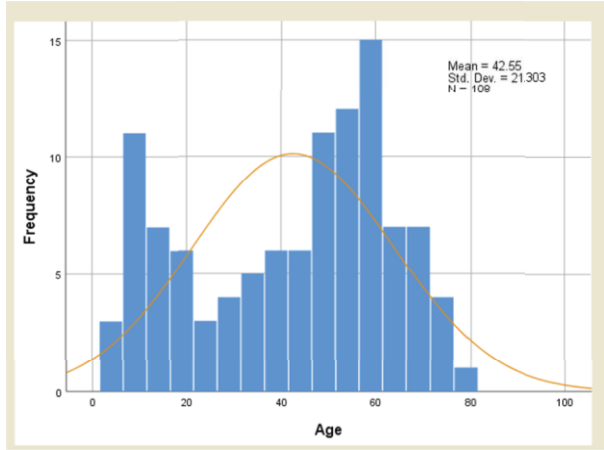
**Fig. 19:** Case referral (GIT)



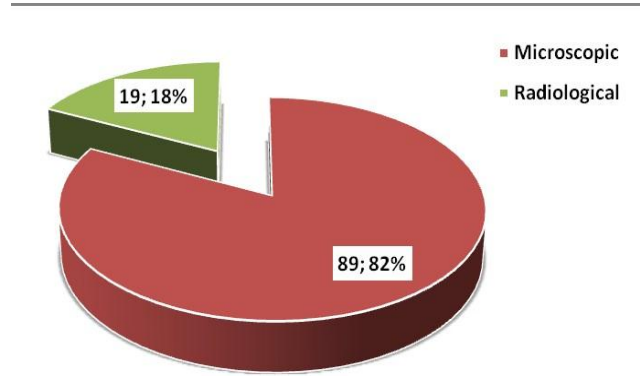
**Table 13: Primary site of GI cancer**

Primary site of tumour	Sex		Total
	Male	Female	
Cervical oesophagus	52 (2.8)	28 (2.7)	80 (2.8)
Oesophagus	422 (23.0)	199 (19.5)	621 (21.7)
Gastric antrum	3 (0.2)	6 (0.6)	9 (0.3)
Stomach	379 (20.7)	173 (16.9)	552 (19.3)
Duodenum	4 (0.2)	2 (0.2)	6 (0.2)
Ileum	12 (0.7)	11 (1.1)	23 (0.8)
Cecum	19 (1.0)	12 (1.2)	31 (1.1)
Appendix	1 (0.1)	0 (0.0)	1 (0.0)
Ascending colon	1 (0.1)	0 (0.0)	1 (0.0)
Hepatic flexure	4 (0.2)	6 (0.6)	10 (0.4)
Transverse colon	1 (0.1)	0 (0.0)	1 (0.0)
Sigmoid colon	5 (0.3)	2 (0.2)	7 (0.2)
Colon	123 (6.7)	72 (7.0)	195 (6.8)
Rectum	262 (14.3)	164 (16.0)	426 (14.9)
Anus	1 (0.1)	1 (0.1)	2 (0.1)
Anal canal	27 (1.5)	17 (1.7)	44 (1.5)
Liver	350 (19.1)	159 (15.5)	509 (17.8)
Intra hepatic bile duct	1 (0.1)	0 (0.0)	1 (0.0)
Gall bladder	129 (7.0)	142 (13.9)	271 (9.5)
Bile duct	3 (0.2)	10 (1.0)	13 (0.5)
Ampula of vater	2 (0.1)	1 (0.1)	3 (0.1)
Biliary tract	1 (0.1)	0 (0.0)	1 (0.0)
Head of pancrease	7 (0.4)	3 (0.3)	10 (0.4)
Pancrease	25 (1.4)	15 (1.5)	40 (1.4)
Total	1834 (100.0)	1023 (100.0)	2857 (100.0)

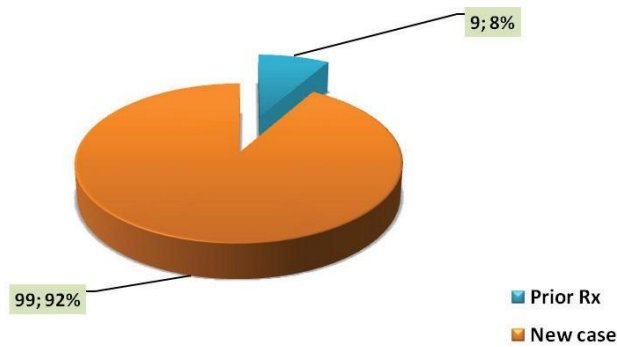
**K. Bone**



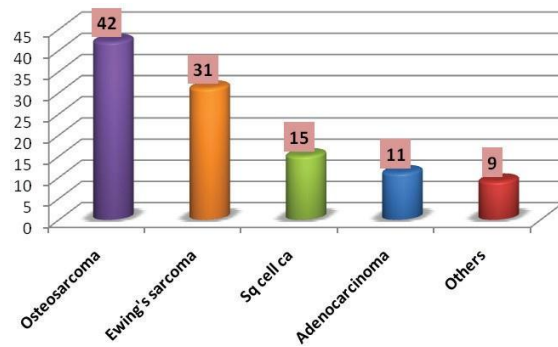
**Fig. 20: Age distribution**  
 Mean age 42.55 years, SD ± 21.30 years, M: F= 1.6:1



**Fig. 21: Diagnostic status (Bone cancer)**

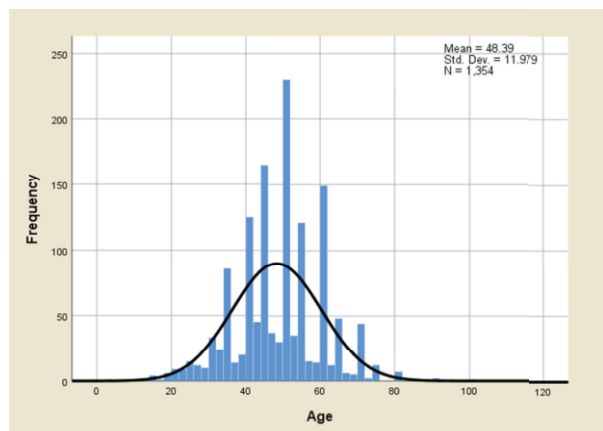


**Fig. 22: Case referral (Bone cancer)**



**Fig. 23: Histological pattern (Bone Cancer)**

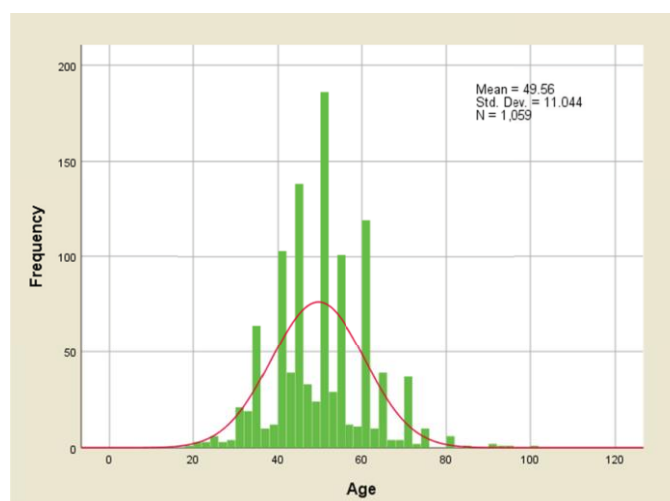
**L. Female genital organs**



**Fig. 24: Age distribution of the female patients suffer from genital organ cancers**

**Table 14: Cncer of female genital organs**

Site	Frequency	Percent
Cervix	1059	78.2
Ovary	114	8.4
Uterus	83	6.1
Tubo overian & Utero overian	40	3.0
Vagina	26	1.9
Adenexa	23	1.7
Vulva	9	0.7
Total	1354	100.0

**M. Cervical cancer:**

**Fig. 25:** Age distribution of cervical cancer patient  
Mean age 49.56, SD±11.04

**Table 25: Morphology of cervical cancer (N=1059)**

Morphology	Frequency	Percentage
Sq cell ca	1011	95.5
Adenocarcinoma	45	4.2
Other types	3	0.3
Total	1059	100.0

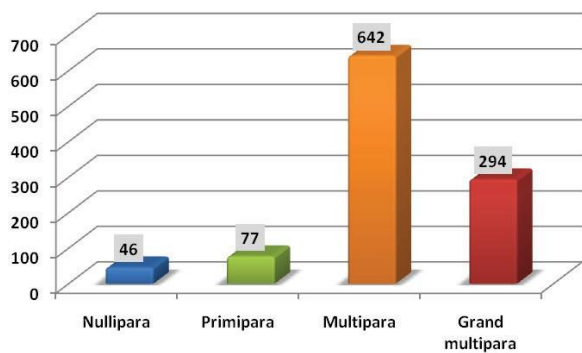


Fig. 26: Parity of Ca Cx

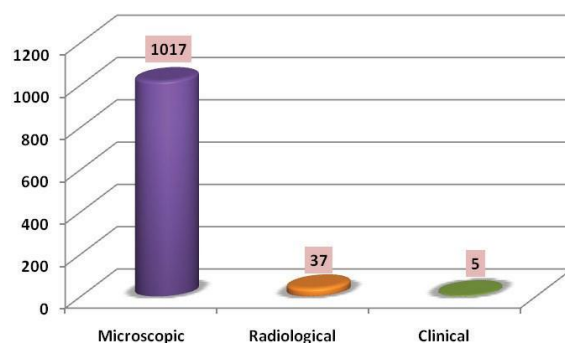


Fig. 27: Diagnostic status (Ca Cx)

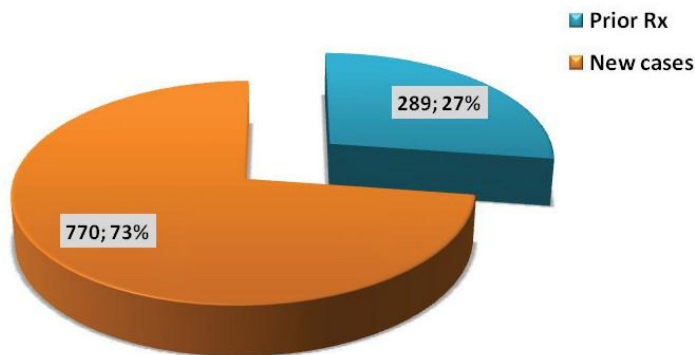


Fig. 28: Case referral (Ca Cx)

## N. Ovary

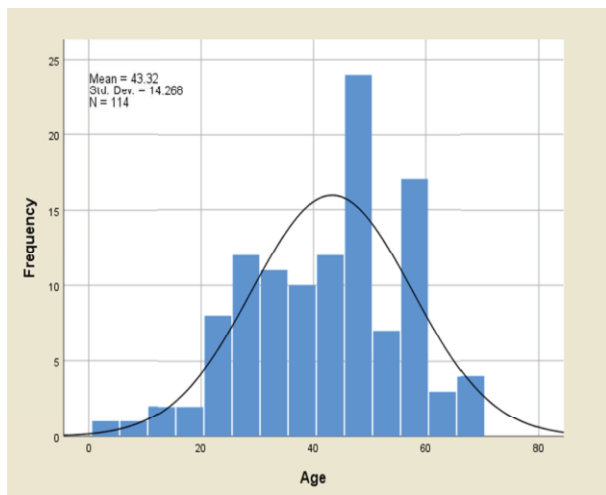


Fig. 29: Age distribution (ovarian ca)  
Mean age 43.32 years SD± 14.27 years

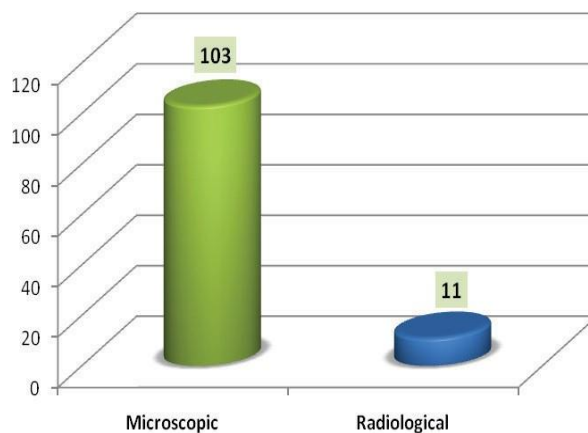


Fig. 30: Diagnostic status (ovarian ca)

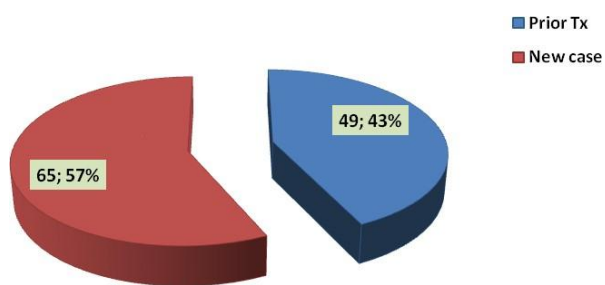


Fig. 31: Case referral (Ovarian cancer)

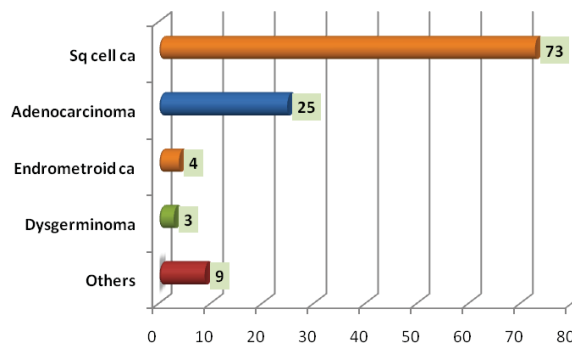


Fig. 32: Morphological type (Ovarian ca)

### O. Male genital organs

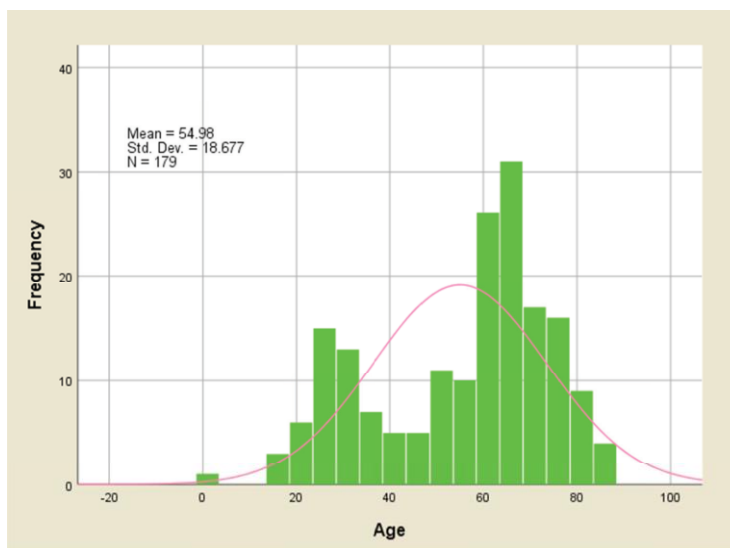
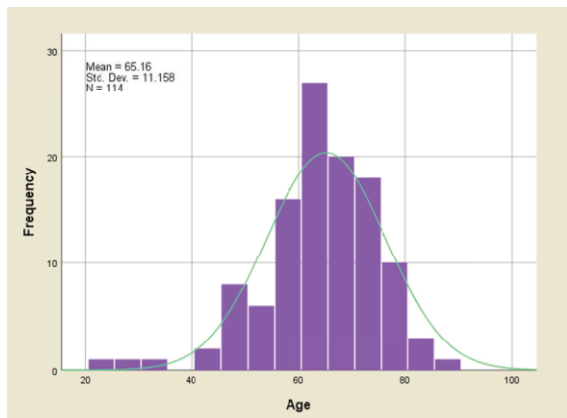


Fig. 33: Age distribution of male genital organ cancer patients  
Mean age 54.98 years SD± 18.68 years

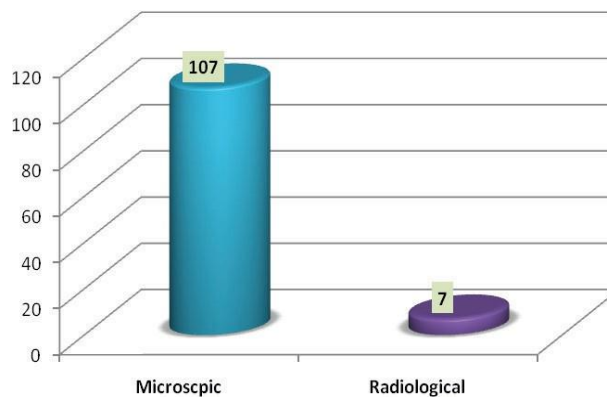
### Primary site

Table 16: Cancer of male genital organs		
Site	Number	Percent
Prostate	114	63.7
Testis	56	31.3
Penis	9	5.0
Total	179	100.0

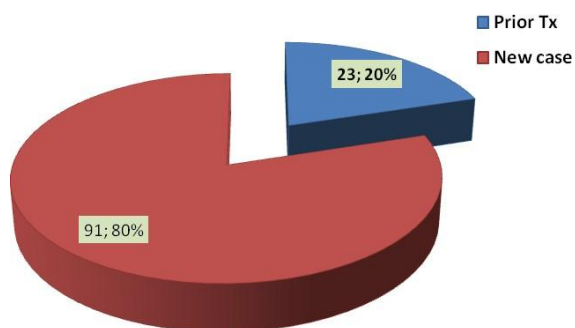
**P. Prostate**



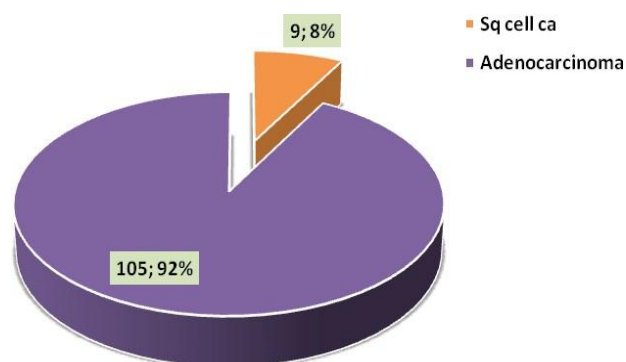
**Fig. 34:** Age distribution of the patients of prostate cancer  
Mean age 65.16 years, SD± 11.16



**Fig. 35:** Diagnostic status (prostate)



**Fig. 36:** Case referral (prostate ca)



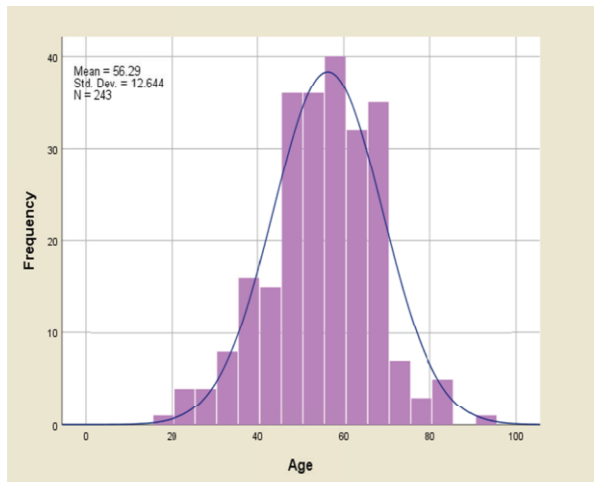
**Fig. 37:** Morphological type (prostate ca)

**Q. Kidney & related organs**

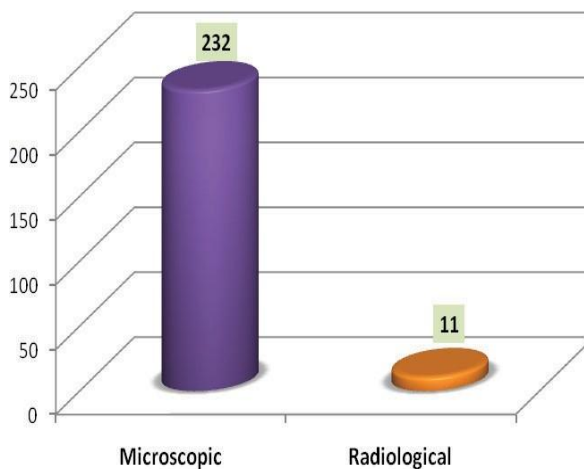
**Table 17: Cancer of kidney & related organs**

Primary site of tumour	Sex		Total
	Male	Female	
Kidney	77 (30.3)	31 (32.0)	108 (30.8)
Bladder	177 (69.7)	66 (68.0)	243 (69.2)
Total	254 (100.0)	97 (100.0)	351 (100.0)

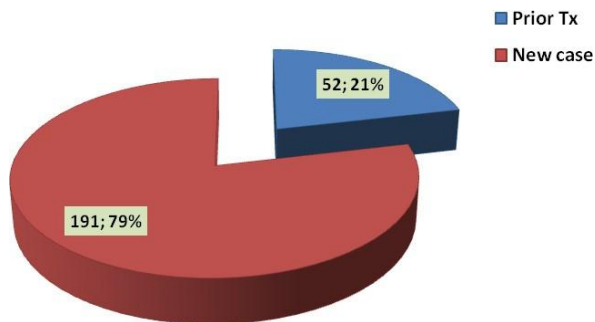
R. U. Bladder



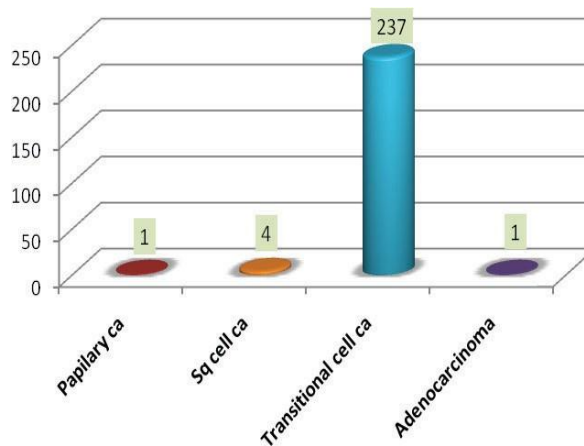
**Fig. 38:** Age distribution of the patients of Urinary Bladder  
Mean age 56.29 SD± 12.64, M: F= 2.7: 1



**Fig. 39:** Diagnostic status (Urinary Bladder ca)

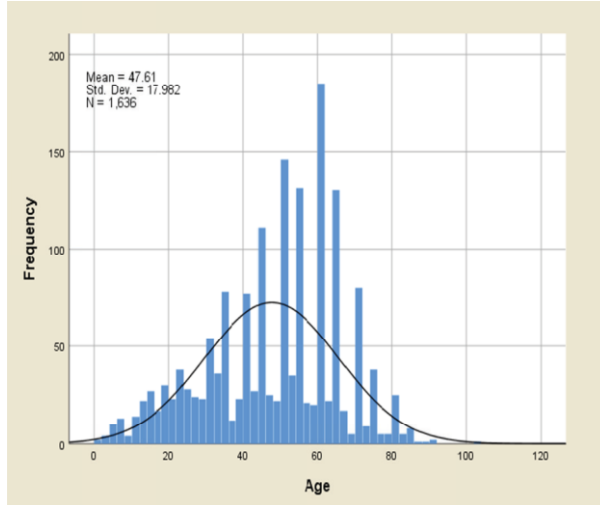


**Fig. 40:** Case referral (Urinary Bladder ca)

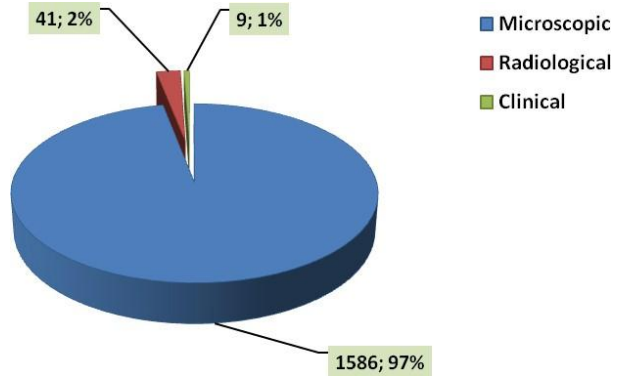


**Fig. 41:** Morphological type of Urinary Bladder cancer

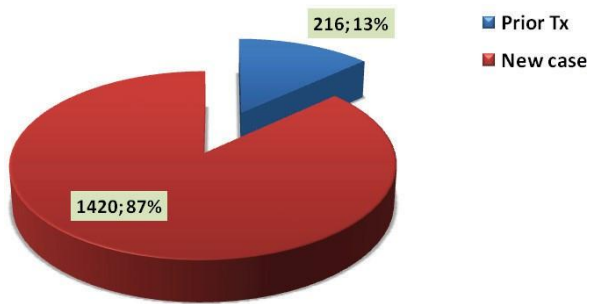
S. Lymphatics & Lymph Node



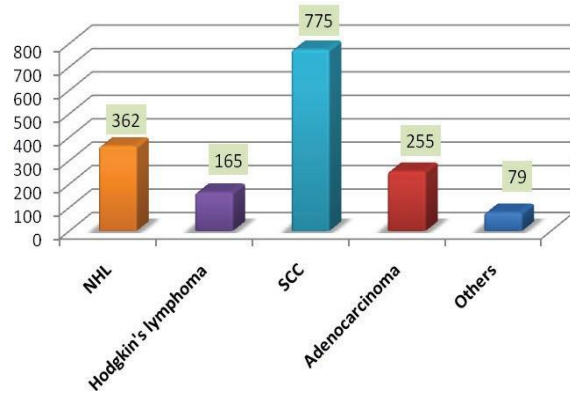
**Fig. 42:** Age distribution (Lymphatics and lymph nodes)  
Mean age 47.61 SD± 17.98 Years M: F= 2.1:1



**Fig. 43:** Diagnostic status (Lymphatics and lymph nodes)



**Fig. 44:** Case referral (Lymphatics and lymph nodes)



**Fig. 45:** Morphological type ((Lymphatics and lymph nodes)



# APPENDICES

## Appendix I : Age-specific distribution of cancer patients, NICRH (2017)

## A. Male

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C00	LIP	0	0	0	2	1	3	3	2	0	11
C01.9	Base of the tongue	0	0	2	2	1	3	0	0	0	8
C02.9	Tongue	0	1	13	22	37	42	30	11	4	160
C03.9	Gum	0	0	0	0	1	1	2	2	0	6
C04.9	Floor of the mouth	0	0	0	1	5	4	5	3	0	18
C05.0	Hard palate	0	0	0	2	0	2	2	0	1	7
C05.1	Soft palate	3	1	5	6	4	3	3	2	0	27
C05.9	Palate	0	0	0	1	2	1	1	2	0	7
C06.0	Cheek /buccal mucosa	0	1	6	21	54	53	26	10	2	173
C06.9	Oral cavity/Buccal cavity	0	0	4	5	4	10	5	0	2	30
C07.9	Parotid Gland	0	3	5	4	9	4	2	0	0	27
C08.0	Sub mandibular/maxillary gland	1	1	3	7	12	15	12	4	2	57
C09.0	Tonsillar fossa	0	0	0	1	1	3	3	0	0	8
C09.9	Tonsil	1	2	1	7	21	32	22	7	1	94
C10.0	Valecula	0	0	0	0	0	2	2	0	0	4
C10.4	Branchial cleft	0	0	1	2	8	23	18	5	2	59
C10.9	Oropharynx	0	0	0	0	1	1	1	0	0	3
C11.9	Nasopharynx	3	4	3	0	5	11	2	0	0	28
C12.9	Pyriformsinus/fossa	1	1	3	10	31	52	38	7	1	144
C13.0	Cricoid	0	1	0	0	1	2	0	0	0	4
C13.1	Aryepiglottic fold	0	0	0	2	4	2	1	1	0	10
C13.9	Hypopharynx	0	0	0	0	2	0	0	0	1	3
C14.0	Pharynx	0	0	2	4	4	8	2	1	0	21
C13.9	Laryngopharynx	0	0	0	0	1	0	0	0	0	1
C15.0	Cervical oesophagus	2	0	4	11	9	12	9	3	1	51
C15.9	Oesophagus	0	1	12	32	86	148	91	43	7	420
C16.3	Gastric antrum	0	0	0	1	0	1	1	0	0	3
C16.9	Stomach	0	6	17	45	69	122	86	27	5	377
C17.0	Duodenum	0	0	0	0	0	1	2	1	0	4
C17.2	Ileum	0	1	3	1	2	1	4	0	0	12
C18.0	Cecum	0	0	4	6	5	3	1	0	0	19
C18.1	Appendix	0	0	1	0	0	0	0	0	0	1
C18.2	Ascending colon	0	0	1	0	0	0	0	0	0	1

## Appendix I : Age-specific distribution of cancer patients, NICRH (2017)

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C18.3	Hepatic flexure	0	0	0	0	0	3	1	0	0	4
C18.4	Transverse colon	0	0	0	1	0	0	0	0	0	1
C18.7	Sigmoid colon	0	1	1	0	1	2	0	0	0	5
C18.9	Colon	0	6	23	25	33	20	15	1	0	123
C20.9	Rectum	1	32	56	58	55	30	23	5	2	262
C21.0	Anus	0	0	0	1	0	0	0	0	0	1
C21.1	Anal canal	0	2	4	1	9	5	6	0	0	27
C22.0	Liver	2	4	23	58	75	98	78	9	3	350
C22.1	Intra hepatic bile duct	0	0	0	0	0	0	1	0	0	1
C23.9	Gall bladder	1	2	6	14	32	42	20	11	1	129
C24.0	Bile duct	0	0	0	0	1	2	0	0	0	3
C24.1	Ampula of Vater	0	0	0	0	0	2	0	0	0	2
C24.9	Biliary tract	0	0	0	0	0	0	1	0	0	1
C25.0	Head of pancreas	0	0	0	0	2	3	1	1	0	7
C25.9	Pancreas	0	0	2	3	5	6	7	2	0	25
C30.0	Nasal cavity	0	1	0	1	2	2	0	0	0	6
C30.1	Middle ear, inner ear	0	0	0	0	0	5	2	0	0	7
C31.0	Maxillary sinuses	0	0	0	4	3	0	7	0	0	14
C31.1	Frontal sinuses	1	0	1	0	4	0	1	0	0	7
C31.2	Glottis, Vocal cord	0	0	6	16	20	35	31	5	2	115
C32.0	Supraglottis, Epiglottis,	0	0	3	6	38	40	39	4	1	131
C32.9	Larynx	0	0	2	19	50	56	42	5	3	177
C34.0	Bronchus	0	0	2	4	19	25	26	6	1	83
C34.9	Lung	1	13	29	81	316	605	549	139	27	1760
C38.4	Pleura	0	2	6	6	13	17	13	3	2	62
C40.0	Long bones & articular cartilages of upper limbs	5	1	0	0	0	0	0	0	0	6
C40.1	Short bones & articular cartilages of upper limbs	0	0	0	0	0	0	1	0	0	1
C40.2	Long bones & articular cartilages of lower limbs	1	0	0	1	0	0	0	0	0	2
C40.9	Bones & articular cartilages limbs	1	0	1	0	0	0	0	0	0	2
C41.1	Mandible & Jaw	0	0	0	0	1	0	0	0	0	1



**Appendix I : Age-specific distribution of cancer patients, NICRH (2017)**

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C70.9	Meninges (NOS)	0	0	0	3	1	0	0	0	0	4
C71.0	Cerebrum	1	0	0	0	0	0	0	0	0	1
C71.1	Frontal lobe	0	1	0	0	0	1	0	0	0	2
C71.3	Parital lobe	0	0	0	1	0	0	0	0	0	1
C71.6	Cerebellum	0	0	0	0	2	0	0	0	0	2
C71.9	Brain	13	16	13	20	20	16	5	1	0	104
C72.0	Spinal cord	1	1	0	0	0	0	0	0	0	2
C73.9	Thyroid	0	1	9	5	7	14	9	1	0	46
C76.0	Cheek, Jaw, Nose	0	1	1	1	1	3	8	1	0	16
C76.1	Thorax	0	0	0	0	1	0	0	0	0	1
C76.2	Abdominal wall	0	1	1	0	0	1	0	0	0	3
C77.0	LN of Head face & Neck	29	51	72	93	166	216	139	48	8	822
C77.3	LN of axilla	0	0	1	2	1	1	0	3	0	8
C77.4	Inguinal region	0	1	1	5	3	4	2	1	0	17
C77.5	Pelvic LN	0	0	1	0	0	0	0	0	0	1
C77.9	LN	25	30	19	34	50	54	39	10	1	262
C80.9	Un known primary site	3	3	9	19	11	17	18	4	1	89
	Total	191	268	488	761	1499	2081	1631	438	94	7451

## Appendix II : Age-specific distribution of cancer patients, NICRH (2017)

## B. Female

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C00	LIP	0	0	0	0	1	1	0	0	0	2
C01.9	Base of the tongue	0	0	0	0	2	0	0	0	0	2
C02.9	Tongue	0	2	0	14	33	26	19	4	0	98
C03.9	Gum	0	0	0	1	2	4	2	0	0	9
C04.9	Floor of the mouth	0	0	1	3	5	4	2	0	0	15
C05.0	Hard palate	0	0	0	1	0	1	1	0	0	3
C05.1	Soft palate	0	0	3	4	5	2	0	1	0	15
C05.2	Uvula	0	0	2	1	2	0	0	2	0	7
C05.9	Palate	0	0	4	1	2	0	2	2	0	11
C06.0	Cheek /buccal mucosa	1	0	5	28	77	63	37	8	2	221
C06.1	Vestibule of mouth	0	0	0	0	0	2	0	0	0	2
C06.9	Oral cavity/Buccal cavity	0	0	0	0	6	13	9	0	0	28
C07.9	Parotid Gland	0	4	4	8	4	2	0	1	0	23
C08.0	Sub mandibular/maxillary gland	0	0	3	3	16	17	3	0	1	43
C09.0	Tonsillar fossa	0	0	0	0	1	1	0	0	0	2
C09.9	Tonsil	1	0	1	2	3	4	1	0	0	12
C10.0	Valecula	0	0	0	1	0	2	1	0	0	4
C10.4	Branchial cleft	0	1	0	1	1	10	0	0	0	13
C10.9	Oropharynx	0	0	0	0	0	0	1	0	0	1
C11.9	Nasopharynx	2	1	0	1	3	3	0	0	0	10
C12.9	Pyriformsinus/fossa	1	2	1	2	7	8	2	0	1	24
C13.0	Cricoid	1	0	0	0	0	0	0	0	0	1
C13.1	Aryepiglottic fold	0	0	0	0	1	0	1	0	0	2
C14.0	Pharynx	0	1	1	0	2	0	3	2	0	9
C15.0	Cervical oesophagus	0	0	1	8	10	5	2	1	0	27
C15.9	Oesophagus	0	2	4	20	45	70	50	6	2	199
C16.3	Gastric antrum	0	0	0	0	4	1	0	1	0	6
C16.9	Stomach	0	1	20	26	57	34	30	5	0	173
C17.0	Duodenum	0	0	0	1	1	0	0	0	0	2
C17.2	Ileum	0	1	1	2	1	2	4	0	0	11
C18.0	Cecum	0	0	1	2	3	4	2	0	0	12
C18.3	Hepatic flexure	0	1	0	0	4	1	0	0	0	6
C18.7	Sigmoid colon	0	1	0	0	0	1	0	0	0	2

## Appendix II : Age-specific distribution of cancer patients, NICRH (2017)

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C18.9	Colon	0	2	15	14	19	18	4	0	0	72
C20.9	Rectum	2	19	35	36	29	29	9	3	2	164
C21.0	Anus	0	0	1	0	0	0	0	0	0	1
C21.1	Anal canal	0	1	2	4	3	2	5	0	0	17
C22.0	Liver	3	7	8	30	53	38	11	9	0	159
C23.9	Gall bladder	0	0	8	27	51	33	21	2	0	142
C24.0	Bile duct	0	0	1	2	3	3	0	1	0	10
C21.1	Ampula of vater	0	0	0	0	0	0	1	0	0	1
C22.0	Head of pancrease	0	0	0	0	1	1	1	0	0	3
C23.9	Pancrease	0	0	2	1	6	5	1	0	0	15
C21.1	Nasal cavity	0	0	0	0	0	1	0	0	0	1
C30.1	Middle ear , inner ear	0	1	0	1	1	1	0	0	0	4
C31.0	Maxillary sinuses	0	1	1	2	6	2	1	0	0	13
C31.2	Frontal sinuses	0	0	0	0	1	0	0	0	0	1
C32.0	Glottis, Vocal cord	0	0	0	6	0	2	0	1	0	9
C32.1	Supraglottis, Epiglottis,	0	1	2	1	4	6	0	1	0	15
C32.9	Larynx	0	0	1	1	8	6	8	2	0	26
C34.9	Bronchous	0	0	2	1	7	9	2	1	0	22
C34.9	Lung	4	5	20	37	81	93	57	23	1	321
C38.4	Pleura	0	0	3	4	14	8	2	1	0	32
C40.0	Long bones & articular cartilages of lower limbs	1	1	0	0	1	0	0	0	0	3
C40.1	Short bones & articular cartilages of lower limbs	0	0	1	0	0	0	0	0	0	1
C40.9	Bones & articular cartilages limbs	2	1	0	0	1	0	0	0	0	4
C41.0	Bones & articular cartilages of Skull & face	1	0	0	0	1	0	0	0	0	2
C41.2	Vertebra & Vertebral column	0	0	1	4	5	10	0	1	0	21
C41.9	Bones & articular cartilages	4	3	1	1	0	2	0	0	0	11
C42.1	Blood	16	12	18	19	9	5	1	0	0	80
C44.0	Bone marrow	1	3	1	4	2	4	1	0	0	16
C44.1	Skin of eye lid	0	0	0	0	1	0	0	0	0	1
C44.3	Skin of Face	0	0	0	3	2	0	1	2	0	8
C44.9	Skin	1	0	0	4	6	5	8	0	0	24

## Appendix II : Age-specific distribution of cancer patients, NICRH (2017)

ICD-O	Primary site of tumour	Age group									Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	
C48.1	Omentum, Pouch of duglus, Cal de sac	0	0	0	0	3	1	2	0	0	6
C49.0	Connective tissue of scalp/face/neck	0	0	1	1	3	0	2	0	0	7
C49.1	Connective tissue of UL,arm, forearm,hand,shoulder,thum, wris	3	10	1	0	5	3	3	0	0	25
C49.0	Connective tissue of LL,foot,leg, thigh,hip,knee	14	9	7	8	7	8	2	0	0	55
C49.1	Connective tissue of Abdomen, abdominal wall, umbillicus	2	1	0	0	0	0	0	0	0	3
C49.9	Connective tissue	0	0	1	2	0	2	0	0	0	5
C50.0	Breast (Nipple/areola)	0	1	1	1	0	0	0	0	0	3
C50.9	Breast	1	65	301	638	655	297	82	16	1	2056
C51.9	Vulva	0	0	0	2	4	1	1	1	0	9
C52.9	Vagina	0	1	2	5	6	9	2	1	0	26
C53.9	Cervix	0	7	62	218	402	253	87	14	4	1047
C55.9	Uterus	0	1	6	22	29	14	8	1	0	81
C56.9	Ovary	3	10	17	21	34	23	5	0	0	113
C57.4	Adenexa	0	4	4	3	6	4	1	0	0	22
C57.8	Tubo overian & Utero overian	2	6	10	8	5	7	2	0	0	40
C64.9	Kidney	5	1	5	5	9	3	3	0	0	31
C67.9	Bladder	0	1	4	9	18	19	15	0	0	66
C69.4	Eye ball	1	0	0	1	3	1	1	0	0	7
C69.6	Orbit	0	0	3	1	0	0	0	0	0	4
C69.9	Eye	12	0	1	2	0	0	0	1	0	16
C70.9	Meninges (NOS)	0	0	2	3	0	1	0	1	0	7
C71.1	Frontal lobe	0	1	0	0	0	0	0	0	0	1
C71.4	Occipital lobe	0	0	2	0	0	0	0	0	0	2
C71.9	Brain	6	6	10	7	15	6	2	0	0	52
C73.9	Thyroid	0	8	19	19	11	12	5	3	0	77
C75.1	Pituitary gland	0	0	0	0	1	0	0	0	0	1
C76.0	Cheek, Jaw ,Nose	0	0	0	2	7	6	2	2	0	19
C77.0	LN of Head face & Neck	19	31	46	57	96	79	38	11	2	379
C77.3	LN of axilla	0	1	6	2	2	6	0	0	0	17
C77.4	Inguinal region	0	0	1	3	1	4	1	0	0	10
C77.5	Pelvic LN	1	2	0	0	1	2	1	0	0	7
C77.9	LN	8	15	16	19	19	13	17	5	0	112
C80.9	Un known primary site	1	3	11	9	24	16	8	3	1	76
	Total	119	258	714	1400	1979	1354	596	139	17	6576



**Appendix III : Histological classification of cancer according to sites, NICRH (2017)**

Site and Histology							
Site	Male	Female	Total	Site	Male	Female	Total
<b>Lip</b>	<b>11</b>	<b>2</b>	<b>13</b>	<b>Submandibular/maxillary gland</b>	<b>58</b>	<b>43</b>	<b>101</b>
Sq cell ca	11	2	13	Sq cell ca	49	42	91
Base of the tongue	8	2	10	Adenocarcinoma	7	0	7
Sq cell ca	8	2	10	Mucoepidermoid ca	0	1	1
<b>Tongue</b>	<b>160</b>	<b>98</b>	<b>258</b>	Hodgkins' Lymphoma	2	0	2
Squamous cell carcinoma	159	98	257	<b>Tonsillar fossa</b>	<b>8</b>	<b>2</b>	<b>10</b>
Spindle cell ca	1	0	1	Sq cell ca	7	2	9
<b>Gum</b>	<b>6</b>	<b>9</b>	<b>15</b>	Adenocarcinoma	1	0	1
Sq cell ca	5	9	14	<b>Tonsil</b>	<b>94</b>	<b>12</b>	<b>106</b>
Adenocarcinoma	1	0	1	Sq cell ca	94	11	105
<b>Floor of the mouth</b>	<b>18</b>	<b>15</b>	<b>33</b>	Adenocarcinoma	0	1	1
Squamous cell carcinoma	18	15	33	<b>Valecula</b>	<b>5</b>	<b>4</b>	<b>9</b>
<b>Hard palate</b>	<b>7</b>	<b>3</b>	<b>10</b>	Sq cell ca	5	3	8
Sq cell ca	7	2	9	Adenocarcinoma	0	1	1
Adenocarcinoma	0	1	1	<b>Branchial cleft</b>	<b>59</b>	<b>13</b>	<b>72</b>
<b>Soft palate</b>	<b>27</b>	<b>15</b>	<b>42</b>	Small cell ca	2	1	3
Sq cell ca	20	12	32	Sq cell ca	49	10	59
Adenocarcinoma	2	1	3	Adenoid Sq cell ca	2	2	4
Sarcoma	2	1	3	Adenocarcinoma	3	0	3
Others	3	1	4	Mucoepidermoid ca	3	0	3
<b>Uvula</b>		<b>7</b>	<b>7</b>	<b>Oropharynx</b>	<b>3</b>	<b>1</b>	<b>4</b>
Sq cell ca		7	7	Sq cell ca	3	1	4
<b>Palate</b>	<b>7</b>	<b>11</b>	<b>18</b>	<b>Nasopharynx</b>	<b>29</b>	<b>10</b>	<b>39</b>
Sq cell ca	5	9	14	Sq cell ca	29	10	39
Adenocarcinoma	2	0	2	<b>Pyrimiform sinus/fossa</b>	<b>144</b>	<b>24</b>	<b>168</b>
Mucoepidermoid ca	0	1	1	Spindle cell ca	1	0	1
Acinar cell carcinoma	0	1	1	Sq cell ca	141	24	165
<b>Cheek /buccal mucosa</b>	<b>174</b>	<b>221</b>	<b>395</b>	Adenocarcinoma	2	0	2
Sq cell ca	171	221	392	Cricoid	4	1	5
Basal cell ca	1	0	1	Sq cell ca	4	1	5
Adenocarcinoma	1	0	1	<b>Aryepiglottic fold</b>	<b>10</b>	<b>2</b>	<b>12</b>
Sarcoma	1	0	1	Sq cell ca	10	2	12
<b>Vestibule of mouth</b>		<b>2</b>	<b>2</b>	<b>Hypopharynx</b>	<b>3</b>		<b>3</b>
Sq cell ca		2	2	Sq cell ca	3		3
Oral cavity/Buccal cavity	30	28	58	<b>Pharynx</b>	<b>21</b>	<b>9</b>	<b>30</b>
Sq cell ca	28	28	56	Sq cell ca	21	9	30
Adenocarcinoma	1	0	1	<b>Laryngopharynx</b>	<b>1</b>		<b>1</b>
Mucoepidermoid ca	1	0	1	Sq cell ca	1		1
<b>Parotid Gland</b>	<b>27</b>	<b>23</b>	<b>50</b>	<b>Cervical oesophagus</b>	<b>52</b>	<b>27</b>	<b>79</b>
Mucoepidermoid ca	15	18	33	Sq cell ca	48	24	72
Sq cell ca	6	2	8	Adenocarcinoma	4	2	6
Adenocarcinoma	2	1	3	Rhabdomyosarcoma	0	1	1
Adeno cystic ca	3	0	3				
Others	1	2	3				

## Appendix III : Histological classification of cancer according to sites, NICRH (2017)

Site	Male	Female	Total	Site	Male	Female	Total
<b>Oesophagus</b>	<b>422</b>	<b>199</b>	<b>621</b>	<b>Anal canal</b>	<b>27</b>	<b>17</b>	<b>44</b>
Small cell ca	1	0	1	Malignant tumour	0	1	1
Sq cell ca	384	190	574	Sq cell ca	22	11	33
Adenocarcinoma	37	9	46	Adenocarcinoma	5	5	10
<b>Gastric antrum</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>Liver</b>	<b>350</b>	<b>159</b>	<b>509</b>
Sq cell ca	2	5	7	Small cell ca	1	1	2
Adenocarcinoma	1	1	2	Sq cell ca	3	1	4
<b>Stomach</b>	<b>379</b>	<b>173</b>	<b>552</b>	Adenocarcinoma	3	0	3
Malignant tumour	175	66	241	Hepatocellular ca	339	157	496
Sq cell ca	33	17	50	Embryonal sarcoma	4	0	4
Adenocarcinoma	171	90	261	<b>Intra hepatic bile duct</b>	<b>1</b>		<b>1</b>
<b>Duodenum</b>	<b>4</b>	<b>2</b>	<b>6</b>	Cholangiocarcinoma/Bile duct carcinoma	1		1
Adenocarcinoma	4	2	6	<b>Gall bladder</b>	<b>129</b>	<b>142</b>	<b>271</b>
<b>Ileum</b>	<b>12</b>	<b>11</b>	<b>23</b>	Small cell ca	0	1	1
Sq cell ca	8	7	15	Sq cell ca	4	4	8
Adenocarcinoma	4	3	7	Adenocarcinoma	125	137	262
Ewing's sarcoma	0	1	1	<b>Bile duct</b>	<b>3</b>	<b>10</b>	<b>13</b>
<b>Cecum</b>	<b>19</b>	<b>12</b>	<b>31</b>	Cholangiocarcinoma/Bile duct carcinoma	3	10	13
Sq cell ca	6	5	11	<b>Ampula of vater</b>	<b>2</b>	<b>1</b>	<b>3</b>
Adenocarcinoma	13	7	20	Sq cell ca	0	1	1
Appendix	1		1	Adenocarcinoma	2	0	2
Adenocarcinoma	1		1	<b>Biliary tract</b>	<b>1</b>		<b>1</b>
<b>Ascending colon</b>	<b>1</b>		<b>1</b>	Cholangiocarcinoma/Bile duct carcinoma	1		1
Adenocarcinoma	1		1	<b>Head of pancreas</b>	<b>7</b>	<b>3</b>	<b>10</b>
<b>Hepatic flexure</b>	<b>4</b>	<b>6</b>	<b>10</b>	Sq cell ca	1	0	1
Sq cell ca	3	5	8	Adenocarcinoma	6	3	9
Adenocarcinoma	0	1	1	<b>Pancreas</b>	<b>25</b>	<b>15</b>	<b>40</b>
Multiple myeloma	1	0	1	Sq cell ca	5	3	8
<b>Transverse colon</b>	<b>1</b>		<b>1</b>	Adenocarcinoma	19	12	31
Adenocarcinoma	1		1	Cholangiocarcinoma/Bile duct carcinoma	1	0	1
<b>Sigmoid colon</b>	<b>5</b>	<b>2</b>	<b>7</b>	<b>Nasal cavity</b>	<b>6</b>	<b>1</b>	<b>7</b>
Sq cell ca	1	0	1	Sq cell ca	6	1	7
Adenocarcinoma	4	2	6	<b>Middle ear , inner ear</b>	<b>7</b>	<b>4</b>	<b>11</b>
<b>Colon</b>	<b>123</b>	<b>72</b>	<b>195</b>	Sq cell ca	7	4	11
Sq cell ca	10	7	17	<b>Maxillary sinuses</b>	<b>14</b>	<b>13</b>	<b>27</b>
Adenocarcinoma	112	64	176	Sq cell ca	12	13	25
Hepatocellular ca	1	1	2	Adeno cystic ca	1	0	1
<b>Rectum</b>	<b>262</b>	<b>164</b>	<b>426</b>	Malignant melanoma	1	0	1
Sq cell ca	33	21	54	<b>Frontal sinuses</b>	<b>7</b>	<b>1</b>	<b>8</b>
Adenocarcinoma	227	140	367	Sq cell ca	5	1	6
Hepatocellular ca	0	1	1	Ependymoma	1	0	1
Duct cell ca	2	2	4	Astrocytoma	1	0	1
<b>Anus</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>Glottis, Vocal cord</b>	<b>115</b>	<b>9</b>	<b>124</b>
Sq cell ca	1	1	2	Sq cell ca	113	9	122
				Others	2	0	2

## Appendix III : Histological classification of cancer according to sites, NICRH (2017)

Site	Male	Female	Total	Site	Male	Female	Total
<b>Supraglottis, Epiglottis</b>	<b>132</b>	<b>15</b>	<b>147</b>	<b>Bones&amp;articularcartilagesofpharynx</b>	<b>1</b>		<b>1</b>
Sq cell ca	132	15	147	Ewing's sarcoma	1		1
Larynx	177	26	203	Bones & articular cartilages	5	11	16
Small cell ca	1	0	1	Chondrosarcoma	1	2	3
Sq cell ca	175	26	201	Ewing's sarcoma	4	9	13
Adenoid Sq cell ca	1	0	1	Blood	118	80	198
Bronchus	83	22	105	Multiple myeloma	1	0	1
Small cell ca	0	1	1	Leukemia	2	2	4
Sq cell ca	81	17	98	Acute Lymphoblastic Leukemia	74	40	114
Adenocarcinoma	2	3	5	Chronic Lymphocytic Leukemia	1	1	2
Mucinous cystadeno ca	0	1	1	Acute Myeloid/Grulocytic Leukemia	32	21	53
Lung	1762	322	2084	Chronic Myeloid/Grulocytic Leukemia	8	16	24
Malignant tumour	85	19	104	Bone marrow	43	16	59
Large cell ca	6	0	6	Multiple myeloma	4	1	5
Small cell ca	196	26	222	Acute Lymphoblastic Leukemia	6	0	6
Sq cell ca	1114	188	1302	Chronic Lymphocytic Leukemia	2	0	2
Adenocarcinoma	361	89	450	Myeloid leukemia	1	0	1
Pleura	62	32	94	Acute Myeloid/Grulocytic Leukemia	10	8	18
Malignant tumour	0	1	1	Chronic Myeloid/Grulocytic Leukemia	20	7	27
Sq cell ca	45	21	66	Haemopoietic system	1		1
Adenoid Sq cell ca	11	1	12	Haemngiosarcoma, Angiosarcoma	1		1
Adenocarcinoma	6	8	14	Skin of lip	1		1
Multiple myaloma	0	1	1	Basal cell ca	1		1
Long bones & articular cartilages of upper limbs	6		6	Skin of eye lid	3	1	4
Ewing's sarcoma	6		6	Sq cell ca	2	1	3
Short bones & articular cartilages of upper limbs	1		1	Rhabdomyosarcoma	1	0	1
Chronic Myeloid/Grulocytic Leukemia	1		1	Skin of Face	1	8	9
Long bones & articular cartilages of lower limbs	2	3	5	Sq cell ca	1	3	4
Fibrosarcoma	1	0	1	Basal cell ca	0	5	5
Ewing's sarcoma	1	3	4	Skin of lower limb & Hip	1		1
Short bones & articular cartilages of lower limbs		1	1	Dermato fibroma	1		1
Ewing's sarcoma		1	1	Skin	37	24	61
Bones&articular cartilages limbs	2	4	6	Sq cell ca	14	5	19
Sq cell ca	0	1	1	Basal cell ca	18	18	36
Ewing's sarcoma	2	3	5	Adenocarcinoma	2	0	2
Bones&articular cartilages of skull&face		2	2	Malignant melanoma	1	0	1
Sarcoma		1	1	Dermato fibroma	2	1	3
Ewing's sarcoma		1	1	Peripheralnave&Autonomicnaveofface	2		2
Mandible & Jaw	1		1	Neuroblstoma	1		1
Sq cell ca	1		1	Neurofibrosarcoma	1		1
Vertebra & Vertebral column	43	21	64	Ornatum,Pouchofduglus,Caldesac	1	6	7
Malignant tumour	2	0	2	Adenocarcinoma	1	6	7
Gaint cell ca	0	1	1				
Multiple myaloma	1	1	2				
Sq cell ca	28	13	41				
Adenocarcinoma	12	6	18				

## Appendix III : Histological classification of cancer according to sites, NICRH (2017)

Site	Male	Female	Total	Site	Male	Female	Total
<b>Connective tissue of scalp/face/neck</b>	<b>20</b>	<b>7</b>	<b>27</b>	<b>Connective tissue</b>		<b>5</b>	<b>5</b>
Malignant tumour	4	0	4	Sarcoma		1	1
Sq cell ca	25	11	36	Fibrosarcoma		1	1
Basal cell ca	2	1	3	Fibrous histiocytoma		1	1
Adenocarcinoma	2	1	3	Liposarcoma		2	2
Sarcoma	2	0	2	<b>Breast (Nipple/areola)</b>		<b>3</b>	<b>3</b>
Fibrosarcoma	1	0	1	Duct cell ca		3	3
<b>Haemangiosarcoma, Angiosarcoma</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>Breast</b>	<b>36</b>	<b>2056</b>	<b>2092</b>
Osteosarcoma	2	0	2	Sq cell ca	0	6	6
<b>Connective tissue of UL, arm, forearm, hand, shoulder, thumb, wrist</b>	<b>32</b>	<b>19</b>	<b>51</b>	Adenocarcinoma	0	1	1
Malignant tumour	1	0	1	Duct cell ca	36	2049	2085
Small cell ca	1	0	1	Vulva		9	9
Sq cell ca	16	8	24	Small cell ca		1	1
Adenocarcinoma	0	2	2	Sq cell ca		8	8
Sarcoma	1	1	2	<b>Vagina</b>		<b>26</b>	<b>26</b>
Fibrosarcoma	1	1	2	Small cell ca		1	1
Fibrous histiocytoma	1	0	1	Sq cell ca		25	25
Dermato fibroma	0	1	1	<b>Cervix</b>		<b>1059</b>	<b>1059</b>
Liposarcoma	1	0	1	Small cell ca	0	2	2
Osteosarcoma	8	4	12	Papillary ca	0	1	1
Chondrosarcoma	1	0	1	Sq cell ca	10	1001	1011
Ewing's sarcoma	1	2	3	Adenocarcinoma	0	45	45
<b>Connective tissue of LL, foot, leg, thigh, hip, knee</b>	<b>125</b>	<b>55</b>	<b>180</b>	<b>Uterus</b>		<b>81</b>	<b>83</b>
Malignant tumour	3	2	5	Sq cell ca		72	72
Gaint cell type	1	0	1	Adenocarcinoma		9	9
Spindle cell ca	1	0	1	Adeno cystic ca		1	1
Small cell ca	2	0	2	Choriocarcinoma		1	1
Sq cell ca	27	7	34	Ovary		114	114
Adenocarcinoma	2	1	3	Malignant tumour		3	3
Sarcoma	5	4	9	Small cell ca		2	2
Fibrosarcoma	2	1	3	Sq cell ca		71	71
Fibrous histiocytoma	1	4	5	Adenocarcinoma		24	25
Liposarcoma	1	1	2	Adeno cystic ca		2	2
Rhabdomyosarcoma	9	9	18	Endrometroid ca		4	4
Osteosarcoma	66	23	89	Serous cystadeno ca		1	1
Ewing's sarcoma	4	3	7	Mucinous cystadeno ca		1	1
Hodgkins' Lymphoma	1	0	1	Dysgerminoma		3	3
<b>Connective tissue of Abdomen, abdominal wall, umbilicus</b>	<b>3</b>	<b>3</b>	<b>6</b>	Germ cell tumour		1	1
Fibrosarcoma	1	0	1	Teratoma		1	1
Rhabdomyosarcoma	2	3	5	Adenexa		23	23
Connective tissue of Trunk	1		1	Small cell ca		1	1
Fibrosarcoma	1		1	Sq cell ca		14	14
				Adenocarcinoma		3	3
				Adeno cystic ca		4	4
				Papillary adenocarcinoma		1	1

## Appendix III : Histological classification of cancer according to sites, NICRH (2017)

Site	Male	Female	Total	Site	Male	Female	Total
<b>Tuboovarian&amp;Uteroovarian</b>		<b>40</b>	<b>40</b>	<b>Orbit</b>	<b>5</b>	<b>4</b>	<b>9</b>
Malignant tumour		2	2	Small cell ca	0	1	1
Sq cell ca		14	14	Sq cell ca	3	1	4
Adenoid Sq cell ca		6	6	Adenoid Sq cell ca	1	0	1
Adenocarcinoma		9	9	Adenocarcinoma	0	1	1
Adeno cystic ca		5	5	Ewing's sarcoma	0	1	1
Dysgerminoma		2	2	Neuroblastoma	1	0	1
Teratoma		1	1	Eye	23	16	39
Choriocarcinoma		1	1	Sq cell ca	0	1	1
Penis	9		9	Adenoid Sq cell ca	1	0	1
Sq cell ca	7		7	Retinoblastoma	22	15	37
Adenocarcinoma	1		1	Spinal menengis	1		1
Angiomyosarcoma	1		1	Meningioma	1		1
<b>Prostate</b>	<b>114</b>		<b>114</b>	Meninges (NOS)	4	7	11
Sq cell ca	9		9	Meningioma	4	7	11
Adenocarcinoma	105		105	Cerebram	1		1
Testis	56		56	Neuroblastoma	1		1
Malignant tumour	1		1	Frontal lobe	2	1	3
Sq cell ca	13		13	Sq cell ca	1	0	1
Adenocarcinoma	1		1	Ependymoma	0	1	1
Sarcoma	1		1	Glioblastoma	1	0	1
Rhabdomyosarcoma	1		1	Parietal lobe	1		1
Embryonal sarcoma	4		4	Sq cell ca	1		1
Seminoma	27		27	Occipital lobe		2	2
Germ cell tumour	4		4	Adenocarcinoma		1	1
Teratoma	2		2	Ependymoma		1	1
Teratocarcinoma	1		1	Cerebellum	2		2
Malignent teratoma	1		1	Glioblastoma	1		1
<b>Kidney</b>	<b>77</b>	<b>31</b>	<b>108</b>	Neuroblastoma	1		1
Renal cell ca	76	30	106	Brain	104	52	156
Nephrblastoma	1	1	2	Sq cell ca	1	0	1
<b>Bladder</b>	<b>177</b>	<b>66</b>	<b>243</b>	Sarcoma	1	0	1
Papillary ca	1	0	1	Germ cell tumour	1	0	1
Sq cell ca	2	2	4	Glioma	11	4	15
Transitional cell ca	173	64	237	Ependymoma	9	4	13
Adenocarcinoma	1	0	1	Astrocytoma	54	35	89
<b>Conjunctiva</b>	<b>1</b>		<b>1</b>	Glioblastoma	16	6	22
Fibrous histocytoma	1		1	Meduloblastoma	9	0	9
Eye ball	4	7	11	Neuroblastoma	2	3	5
Malignant tumour	0	1	1	Spinal cord	2		2
Sq cell ca	1	1	2	Ependymoma	2		2
Malignant melanoma	1	0	1	Thyroid	46	77	123
Fibrous histocytoma	0	1	1	Papillary ca	46	76	122
Retinoblastoma	2	4	6	Duct cell ca	0	1	1

## Appendix III : Histological classification of cancer according to sites , NICRH (2017)

Site	Male	Female	Total	Site	Male	Female	Total
Pituitary gland		1	1	LN of axilla	8	17	25
Sq cell ca		1	1	Sq cell ca	5	15	20
Cheek, Jaw ,Nose	16	19	35	Adenocarcinoma	2	1	3
Sq cell ca	13	14	27	Malignent melanoma	0	1	1
Adenoid Sq cell ca	0	1	1	Hodgkins' Lymphoma	1	0	1
Basal cell ca	1	2	3	Inguinal region	17	10	27
Adenocarcinoma	2	2	4	Sq cell ca	8	5	13
Thorax	1		1	Adenocarcinoma	2	1	3
Sq cell ca	1		1	Malignent melanoma	1	2	3
Abdominal wall	3		3	Fibrosarcoma	0	1	1
Sq cell ca	1		1	Rhabdomyosarcoma	1	0	1
Sarcoma	1		1	Lymphoma	0	1	1
Dermato fibroma	1		1	Hodgkins' Lymphoma	5	0	5
LN of Head face & Neck	823	379	1202	Pelvic LN	1	7	8
Adenoma	1	0	1	Sq cell ca	1	6	7
Malignent tumour	2	3	5	Ewing's sarcoma	0	1	1
Gaint cell type	1	0	1	LN	262	112	374
Large cell ca	2	0	2	Sq cell ca	1	0	1
Spindle cell ca	2	2	4	NHL	250	109	359
Small cell ca	14	3	17	Hodgkins' Lymphoma	11	3	14
Sq cell ca	512	222	734	Un known primary site	75	73	148
Adenocarcinoma	158	91	249	Malignant tumour	1	2	3
Hepatocellular ca	1	1	2	Small cell ca	6	0	6
Mucoepidermoid ca	0	1	1	Sq cell ca	49	52	101
Serous cystadeno ca	0	1	1	Adenocarcinoma	17	18	35
Mucinous cystadeno ca	0	1	1	Duct cell ca	2	1	3
Malignent melanoma	1	0	1				
Sarcoma	2	0	2				
Fibrosarcoma	2	2	4				
Fibrous histocytoma	4	2	6				
Dermato fibroma	2	0	2				
Embryonal sarcoma	2	0	2				
Seminoma	1	0	1				
kaposi's sarcoma	0	1	1				
Ewing's sarcoma	8	8	16				
Lymphoma	1	0	1				
NHL	1	0	1				
Hodgkins' Lymphoma	105	40	145				
Multiple myeloma	1	0	1				
Chronic Myeloid Leukemia	0	1	1				

## CORRIGENDUM

⇒ In page 2 the Table III would be replaced by the following table:

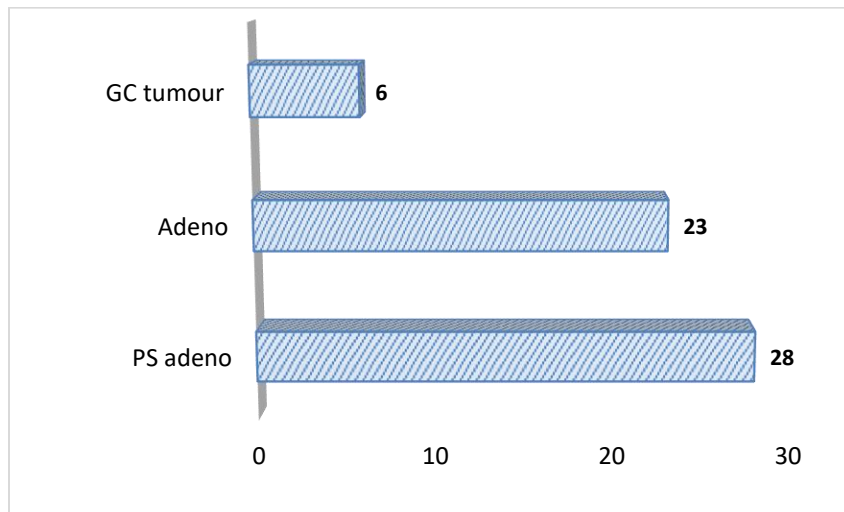
Table III: Top 10 cancer in female (2015-2017)

Top 10 cancers	Frequency	Percentage
Breast	4930	30.4
Cervix	2719	16.8
Lung	882	5.4
Rectum	608	3.8
Cheek /buccal mucosa	517	3.2
Oesophagus	481	3.0
Gall bladder	397	2.5
Stomach	384	2.4
Liver	365	2.3
Lymphoma	343	2.1

⇒ The letter ‘E’ will precede the heading ‘All sites:’ in page 15

⇒ A shaded bar containing the heading ‘H. Lung cancer:’ will be place above Fig. 11 in page 18

⇒ In page 24 the Fig. 30 would be replaced by the following figure



GC Germ cell; Adeno. Adenocarcinoma; PS adeno Papillary serous adenocarcinoma

Fig 30: Morphological type (Ovarian ca)

☞ In page 25 the Fig. 34 would be replaced by the following figure

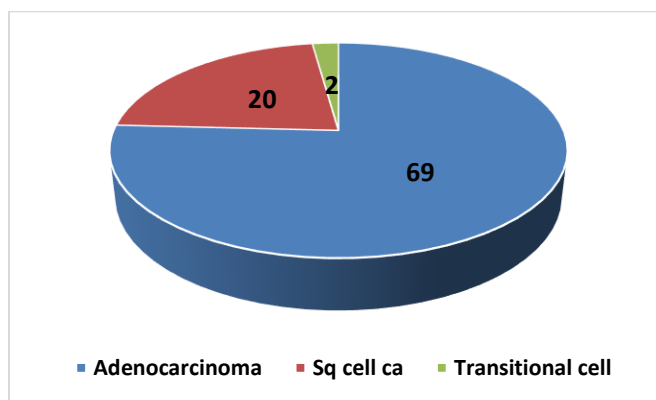
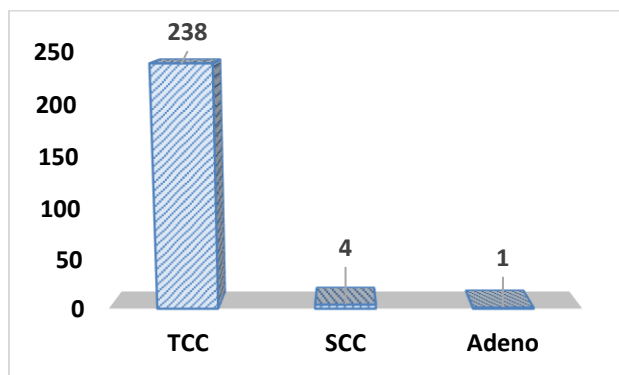


Fig 34: Morphological type (prostate ca)

☞ In page 26 the Fig. 38 would be replaced by the following figure



TCC Transitional cell carcinoma; SCC Squamous cell carcinoma; PA Papillary carcinoma; Adeno. Adenocarcinoma

Fig 38: Morphological type of Urinary Bladder cancer

In page 35 (Appendix II: Age-specific distribution of cancer patients, NICRH 2015) ICD-O C58.9 would be deleted and C57.9 will be replaced by following:

ICD-O		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	Total
C57.9	Female genital tract	0	0	2	0	0	0	1	0	3

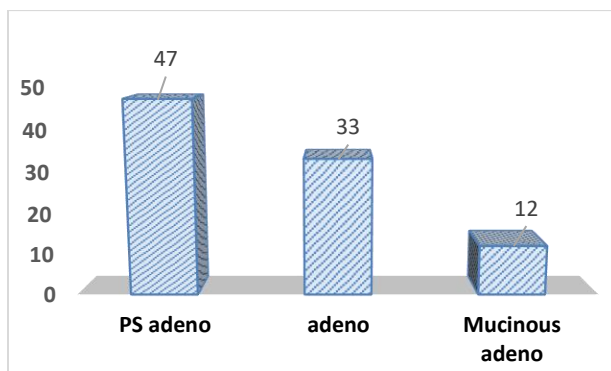
In page 37 (Appendix III: Histological classification of cancer according to site) the ‘Vulva and vagina’ part would be replaced by following:

Site	Male	Female	Total
<b>Vulva</b>		<b>19</b>	<b>19</b>
Sq cell ca		18	18
Adenocarcinoma		1	1
<b>Vagina</b>		<b>6</b>	<b>6</b>
Sq cell ca		6	6



- ☞ The letter ‘E’ will precede the heading ‘All sites:’ in page 49
- ☞ A shaded bar containing the heading ‘H. Lung cancer:’ will be place above Fig. 11 in page 52.
- ☞ A shaded bar containing the heading ‘I: Breast cancer:’ will be placed before Fig. 13 in page 53.
- ☞ A shaded bar containing heading ‘J: GIT cancer:’ will be placed above Fig. 17 in page 53.

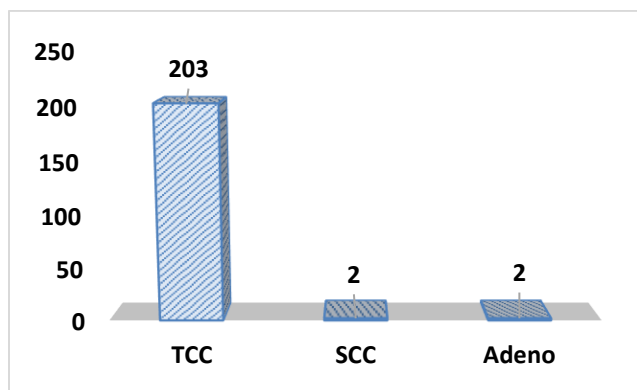
☞ In page 58 the Fig. 30 would be replaced by the following figure



Adeno. Adenocarcinoma; PS adeno Papillary serous adenocarcinoma

Fig: Morphological type (Ovarian ca)

☞ In page 60 the Fig. 38 would be replaced by the following figure



TCC Transitional cell carcinoma; SCC Squamous cell carcinoma; PA Papillary carcinoma; Adeno. Adenocarcinoma

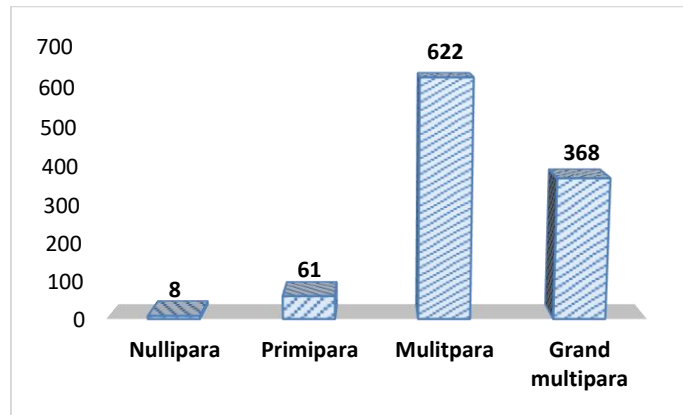
Fig. 38: Morphological type of Urinary Bladder cancer

In page 69 (Appendix II: Age-specific distribution of cancer patients, NICRH 2016) ICD-O C58.9 would be deleted and C80.9 would be replaced by following:

ICD-O		<=14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	Total
C80.9	Unknown primary site	2	4	5	34	29	15	10	3	1	103

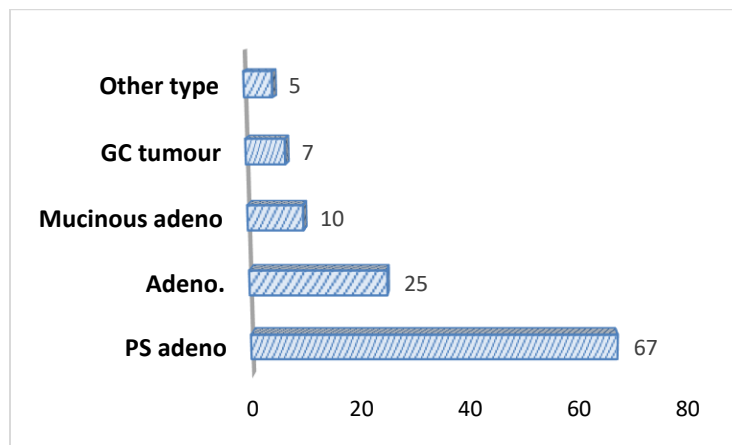
- ☞ Page 75 is a duplicate copy of page 74. So, please ignore page 75.
- ☞ The letter ‘E’ will precede the heading ‘All sites:’ in page 86.
- ☞ In page 93 the ‘Table 25’ should be replaced by ‘Table 15’.

☞ In page 94 the Fig. 26 would be replaced by the following figure



**Fig. 26: Parity of Ca Cx**

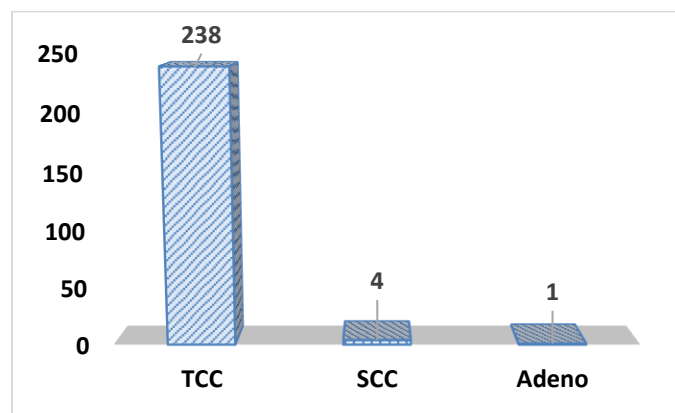
☞ In page 95 the Fig. 32 would be replaced by the following figure



Adeno. Adenocarcinoma; PS adeno Papillary serous adenocarcinoma; GC Germ cell

**Fig: Morphological type (Ovarian ca)**

☞ In page 97 the Fig. 41 would be replaced by the following figure



TCC Transitional cell carcinoma; SCC Squamous cell carcinoma; PA Papillary carcinoma; Adeno. Adenocarcinoma

**Fi. 41: Morphological type of Urinary Bladder cancer**