

Hospital Cancer Registry Report

2018-2020



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

Cancer Registry Report

2018-2020



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Message from the Director



It is a matter of pleasure that a new report on the hospital cancer registry of NICRH is surfacing shortly. This report is the combined report for the year 2018 to 2020. Despite many shortcomings, the department of Cancer Epidemiology has been maintaining a cancer registry form 2005, which is praiseworthy.

The role of a cancer registry is crucial for properly managing cancer in a country. The actual disease scenario can only be known through the concerned disease registry. There are mainly two types of cancer registries 1) Population Based Cancer Registry (PBCR) and 2) Hospital Based Cancer Registry (HBCR). The first one is most important to know the distribution of the disease in the community. The second one is mainly used to manage the hospital resources efficiently for the betterment of the cancer patients in a particular cancer hospital. Still, we lack a PBCR, so the HBCR of NICRH is the only reliable source for understanding the cancer trends, as most of the cancer patients of Bangladesh visit NICRH for cancer treatment.

Like the previous reports, this is the most basic form of cancer registry. In the future, it is expected that the department will be able to bring out a complete package of cancer registry encompassing all related variables.

I want to thank the entire team of this registry and all other departments of NICRH, especially the Gynaecological Oncological department, who took immense pressure to contribute their part.

A handwritten signature in black ink, appearing to read 'Swapan Kumar Bandyopadhyay', written in a cursive style.

Professor (Dr.) Swapan Kumar Bandyopadhyay
Director cum Professor of Radiotherapy
National Institute of Cancer Research & Hospital

Foreword



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 500-bedded comprehensive National Institute of Cancer Research and Hospital (NICRH) in phases.

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

Actual functioning of the Department of Cancer Epidemiology at NICRH started in 2003 after joining of the undersigned as an assistant professor through public service commission as the first regular appointment of the faculty. 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 reports for the years 2005-2007, 2008-2010, 2011-2013 (draft), 2014, 2015-2017.

Several initiatives were taken to expand HBCR at the government medical college hospitals in 2007, 2014 & 2020 but the outcome was not satisfactory for some constrains.

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 in 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 it's result. Data used mainly for administrative purpose and for reviewing clinical performance and to certain extent for epidemiological studies. But it cannot provide measures of occurrence (e.g. incidence, mortality rates) of cancer in a defined population. Population-based cancer registry collects 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 for 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 project, 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.

Now it is the responsibility of us, the specialists and professionals concerned, to help developing appropriate national strategies, plan of actions and programs to control cancer effectively. Department of Cancer Epidemiology, NICRH confirms its firm determination and dedication to serve its job and responsibilities in this regard. 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.

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 2023, 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 under an umbrella of national cancer registry program.

I am privileged to becoming the first faculty of the department of cancer epidemiology and working for long 18 years as head of the department. Along with other responsibilities and activities, developing HBCR and continuing publications of reports despite many constraints made me happy with my job. Finally at the eve of my retiring from government services, dissemination of HBCR Report 2018-2020 gives me immense pleasure. Hope, next generation will fulfill the gaps and overcome the limitations in upcoming days.

Prof. Dr. Md. Habibullah Talukder

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

Contributors

- **Prof. Dr. Md. Habibullah Talukder**
Professor and Head
- **Dr. Md. Johirul Islam**
Associate Professor
- **Dr. Md. Mostafa Kamal**
Associate Professor
- **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

Special Thanks

- **Prof. Dr. Begum Rokeya Anwar**
Professor & Head, Dept. of Gynaecological Oncology, NICRH
- **Prof. Dr. Shahana Pervin**
Professor & Unit Head, Dept. of Gynaecological Oncology, NICRH
- **Dr. Nazneen Ara**
Registrar (GOU 1), Dept. of Gynaecological Oncology, NICRH
- **Dr. Shakila Laizo**
Registrar (GOU 2) Dept. of Gynaecological Oncology, NICRH

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Summary 2018-2020

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. In 2020 yet another combined report for the year 2015-2017 was published. This is the combined report for the year 2018 to 2020. From January 2018 to December 2020 a total of 83795 new patients attended the outpatient department of NICRH, of them 35733 (42.6%) had confirmed or provisional diagnosis of cancer. So, they were included in the final analysis.

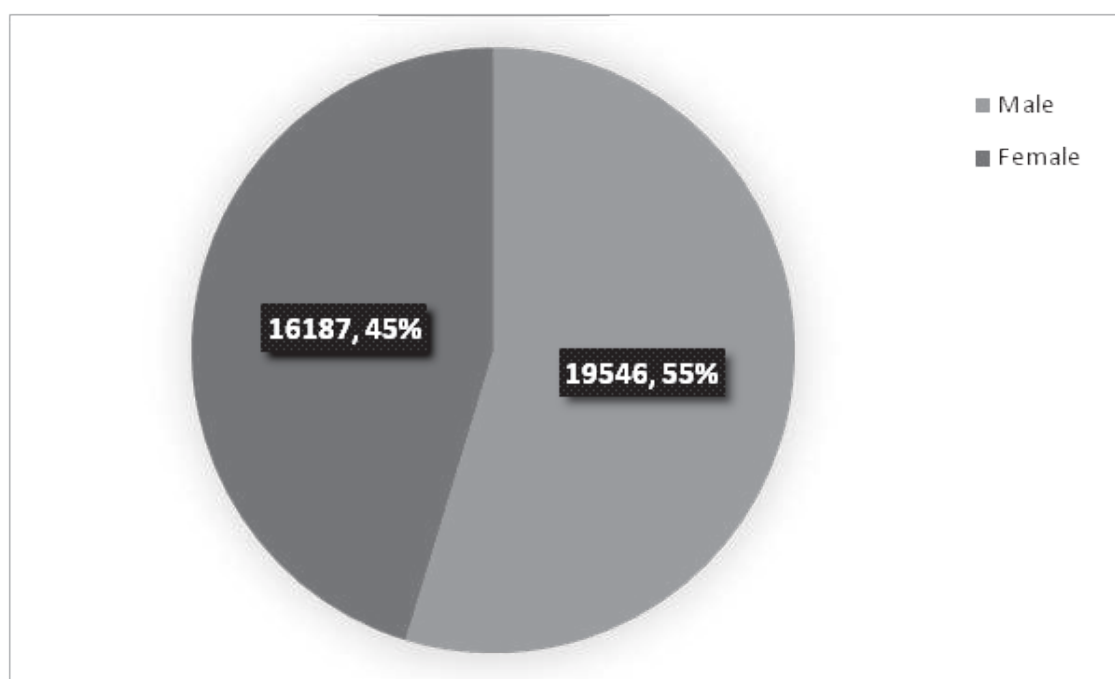


Figure 1: Distribution of the cancer patients by gender

Table 1: Top 10 cancer in both sexes (2018-2020)

Top 10 cancers	Frequency	Percentage
Lung	6227	17.4
Breast	4805	13.4
Cervix	3911	10.9
Oesophagus	1748	4.9
Stomach	1534	4.3
Liver	1398	3.9
Lymph node	1354	3.8
Rectum	1096	3.1
Cheek /buccal mucosa	1072	3.0
Gall bladder	523	1.5

Table 2: Top 10 cancer in male (2018-2020)

Top 10 cancers	Frequency	Percentage
Lung	5200	26.6
Oesophagus	1241	6.4
Stomach	1023	5.2
Lymph node	979	5.0
Liver	946	4.8
Rectum	639	3.3
Blood	474	2.4
Cheek /buccal mucosa	422	2.2
Tongue	420	2.1
Bladder	412	2.1

Table 3: Top 10 cancer in female (2018-2020)

Top 10 cancers	Frequency	Percentage
Breast	4747	29.3
Cervix	2315	14.3
Lung	1027	6.3
Cheek /buccal mucosa	650	4.0
Stomach	511	3.2
Oesophagus	507	3.1
Rectum	457	2.8
Gall bladder	455	2.8
Liver	452	2.8
Lymph node	378	2.3

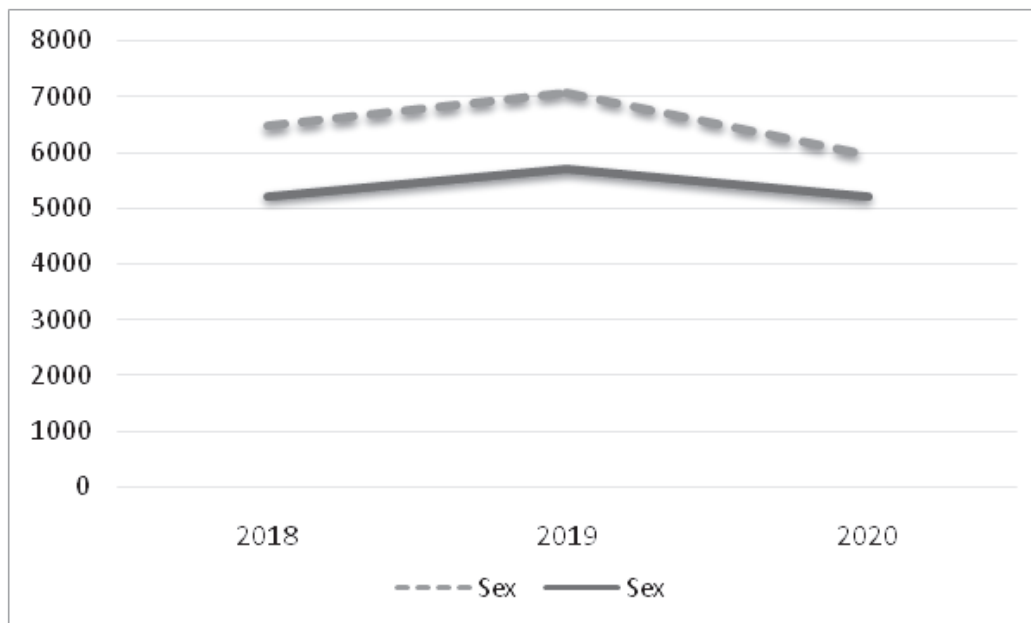


Figure 2: Trend of cancer patients in 2018-2020

Cancer Registry Report 2018

Summary

Hospital based registry started officially from January 01, 2005 at the National Institute of Cancer Research & Hospital (NICRH), Mohakhali, Dhaka. Already five full reports (for 2005, 2005-2007, 2008-2010, 2014 & 2015-2017) and one draft report (for 2011-2013) have been published. In addition, the cancer registry report for the year 2014, 2015-2017 being published online and available at the NICRH website.* This is the cancer registry report for the year 2018. In 2018, 28412 patients attended the Out Patient Department (OPD) of NICRH of them 11723 (41.3%) new 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 at the time of data collection.

Demography:

Majorities (6488, 55.3) of the patients were male and the rest 5235 (44.7%) patients were female giving rise to a male female ratio of 1.2:1. Mean age of the patients was 51.16 years with SD± 15.3 which ranged from 1 to 110 years. Among the all patients 94.3% (11058) were Muslims & 93.5% (10956) were married. A huge number of patients (37.9%, 4443) were illiterate & about 45% patients (5273) had attained primary level education. Agricultural activities were main profession of men (35.6%, 4175) while almost all the female (4968/5235) were housewives.

System wise distribution:

Cancer of the respiratory system and intrathoracic organ (2797, 23.9%) were in the top position followed by cancer of the digestive organs (2581, 22%), female genital organ cancer (2152, 18.4%), breast cancer (1644, 14%) and lymph node cancer (1349, 11.5%) (Table: 1).

Leading sites:

Lung was the main leading site of cancers in both sexes (2196, 18.7%). Breast came up with 2nd position (1643, 14%). Cervix (1462, 12.5%), oesophagus (630, 5.4%), stomach (497, 4.2%), liver (476, 4.1%), rectum (344, 2.9%), cheek/buccal mucosa (325, 2.8%), lymphoma (371, 3.2%) and gall bladder (236, 2%) occupied the successive places.

Lung cancers occupied the first place in male patients (1837, 28.3%). Oesophagus (451, 7.0%), stomach (349, 5.4%), liver (322, 5%), lymphoma (275, 4.2%), rectum (197, 3%), tongue (150, 2.3%), glottis (144, 2.2%), bladder (132, 2%) and larynx (119, 1.8%) came next in that order.

Among female carcinoma of the breast lead the tally (1615, 30.9%) followed by cervix (1462, 27.9%), lung (359, 6.9%), cheek/buccal mucosa (207, 4%), oesophagus (179, 3.4%), liver (154, 2.9%), stomach (148, 2.8%), rectum (147, 2.8%), gall bladder (143, 2.7%) and lymphoma (96, 1.8%).

Residential status:

Majority of the patients attended OPD of NICRH were from Dhaka division (3923, 33.5%) and next from Chattogram division (2658, 22.7%). The other divisional representations were as follows: Barishal (1316, 11.2%), Mymensingh (1161, 9.9%), Khulna (1039, 8.9%), Rajshahi (804, 6.9%), Rangpur (485, 4.1%) and Sylhet (337, 2.9%).

Smoking habit:

Seventy-three (4724) male cancer patients were ever smoker and 38.5% (2498) were current smoker. Only 1.2% (61) female patients were ever smoker. More than 67% males (n=4368) were habituated with chewing tobacco. Among female this percentage was 53.4 (n=2796).

Method of diagnosis:

A total number of 8762 (74.7%) patients came to this hospital with confirmed histopathological diagnosis, 2099 (17.9%) patients had cytopathological diagnosis. About 7% patients (804) reported suspected diagnosis based on radiological evidences and 58 (0.5%) patients were only clinically diagnosed as cancer patients at the time of registration.

Paediatric cancer:

The patient of 0-18 years is considered as paediatric group. A total of 350 (2.9%) paediatric patients were included in this report although the actual number might be much higher. Of them 220 (62.9%) were male paediatric patients & 130 (38.2%) were female. Lymphoma happened to be leading cause of cancer in this group (74, 21.1%) followed by leukaemia (61, 17.4%), cancer of the bones & articular cartilages (52, 14.9%), retinoblastomas (18, 5.1%) and brain cancer (13, 3.7%).

Geriatric cancer:

Patients of 65 years and above were considered as geriatric patients. About 21.8% (2560) of all cancer patients were from this age group. Most of them i.e., 1899 were male (74.2%) and the remaining 25.8 % (661) were female.

Treatment received before attending NICRH:

Most of the patients (76.2%, 8939) did not receive any kind of cancer treatment before attending NICRH, only 23.8% (2784) got some treatment before.

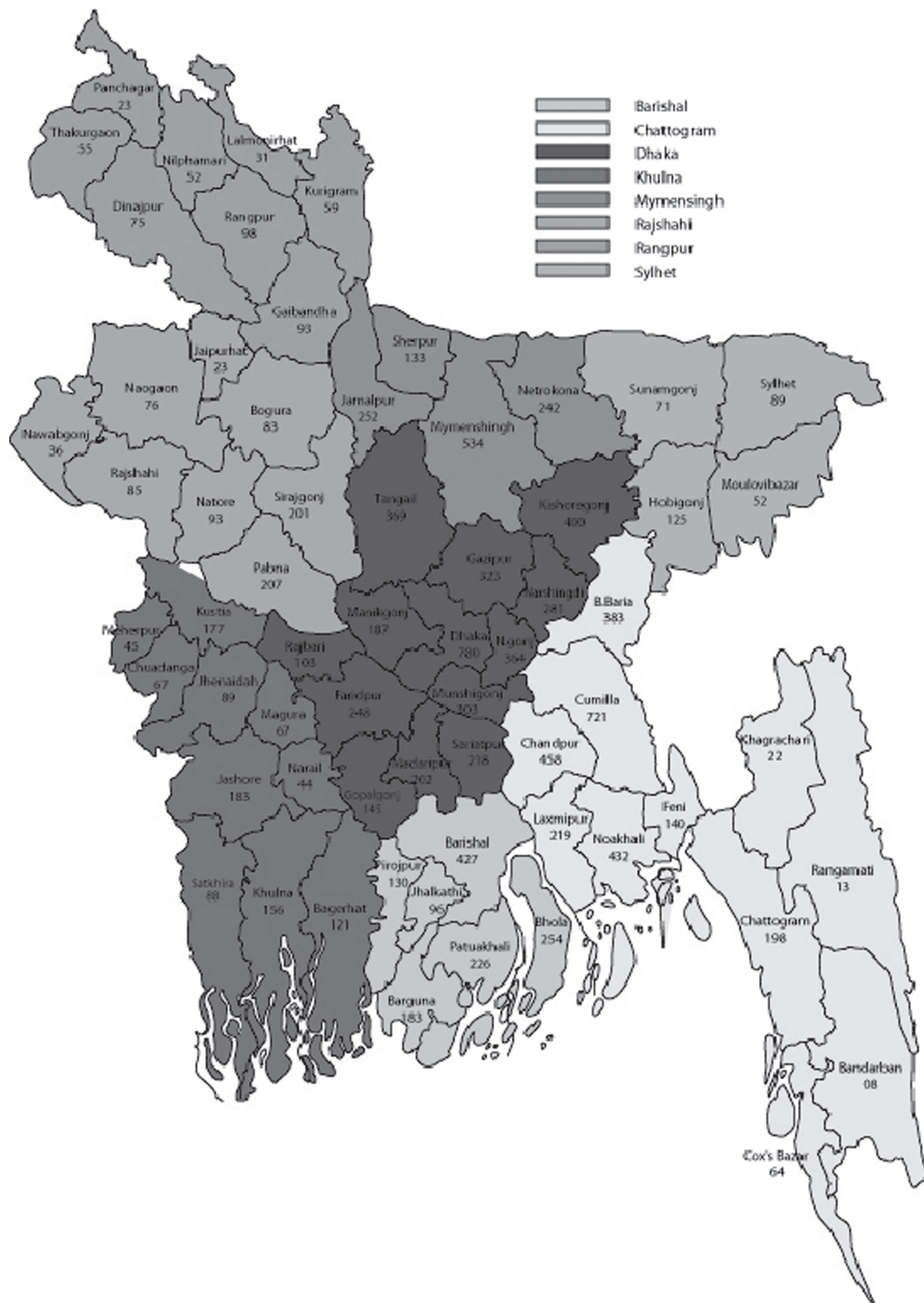


Fig: 1 Map diagram showing the distribution of the patients

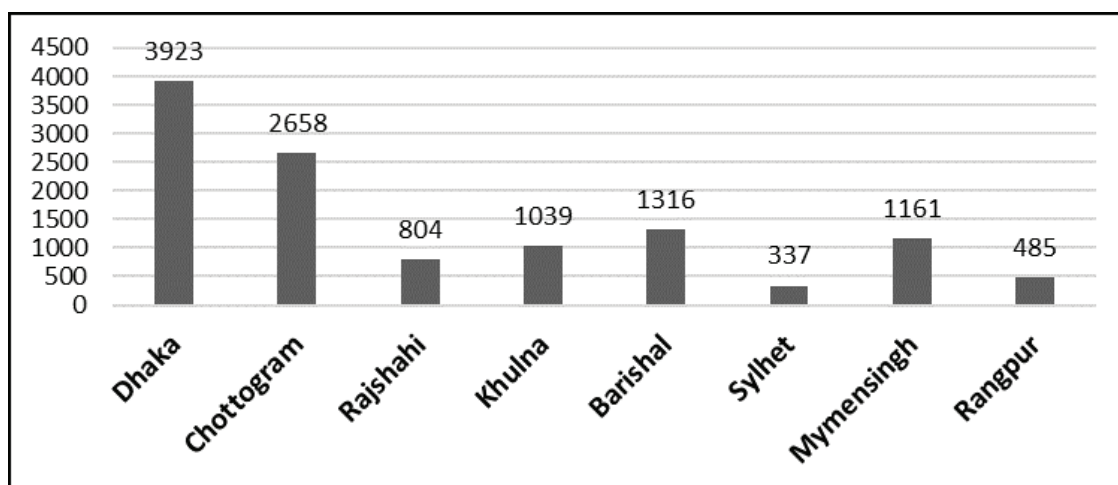


Fig: 2 Distribution of the patients by division

System wise pattern:

ICD-O	Primary site	Frequency	Percent
C00-C14	Lip, oral cavity and pharynx	1168	10.0
C15-C26	Digestive organ	2581	22.0
C30-C39	Respiratory system and intrathoracic organs	2797	23.9
C40-C41	Bones, joints and articular cartilage	47	0.4
C42	Haemopoietic and reticuloendothelial systems	204	1.7
C44	Skin	64	0.5
C48	Retroperitoneum and peritoneum	5	0.0
C49	Connective, subcutaneous and other soft tissues	208	1.8
C50	Breast	1644	14.0
C51-C58	Female genital organs	2152	18.4
C60-C63	Male genital organs	140	1.2
C64-C68	Urinary tract	248	2.1
C69-C72	Eye, brain and other parts of CNS	175	1.5
C73-C75	Thyroid and other endocrine glands	114	1.0
C76	Other ill defined sites	25	0.2
C77	Lymph nodes	1349	11.5
C80	Unknown primary site	36	0.3
	Total	11723	100.0

B. Demography:

Variables	Male (%) (n=6488)	Female (%) (n=5235)	Total (%) (n=11723)
Religion			
Islam	6113 (94.2)	49.5 (94.1)	11058 (94.3)
Hinduism	354 (5.5)	274 (5.2)	628 (5.4)
Buddhism	11 (0.2)	9 (0.2)	20 (0.2)
Christianity	10 (0.2)	7 (0.1)	17 (0.1)
Marital status			
Never married	373 (5.2)	161 (3.1)	498 (4.2)
Married	6149 (94.8)	4807 (91.8)	10956 (93.5)
Wid owed	2 (0.0)	250 (4.8)	252 (2.1)
Divorced	0 (0.0)	17 (0.3)	(0.1)
Education			
Not applicable	58 (0.9)	36 (0.7)	94 (0.8)
Illiterate	2160 (33.)	2283 (43.6)	4443 (37.9)
Primary	3063 (47.2)	2210 (42.2)	5273 (45.0)
Secondary	569 (8.8)	365 (7.0)	934 (8.0)
Higher secondary	300 (4.6)	190 (3.6)	490 (4.2)
Graduate & above	338 (5.2)	151 (2.9)	489 (4.2)
Occupation			
Not applicable	55 (0.8)	33 (0.6)	88 (0.8)
Service	720 (11.1)	88 (1.7)	808 (6.9)
Business	707 (10.9)	10 (0.2)	717 (6.1)
Agriculture	4156 (64.1)	19 (0.4)	4175 (35.6)
Day labourer	226 (3.5)	0 (0.0)	226 (1.9)
House wife	-	4968 (94.9)	4968 (42.4)
Retired/ aged	219 (3.4)	17 (0.3)	236 (2.0)
Industrial worker	59 (0.9)	5 (0.1)	64 (0.5)
Student	233 (3.6)	122 (2.3)	355 (3.0)
Others	83 (1.3)	3 (0.1)	56 (0.7)

C. Leading sites of cancer:

Table: Top 10 malignancies

Sl. No.	Site	Number	Percentage
1	Lung	2195	18.7
2	Breast	1643	14.0
3	Cervix	1462	12.5
4	Oesophagus	630	5.4
5	Stomach	497	4.2
6	Liver	476	4.1
7	Lymph node	371	3.2
8	Rectum	344	2.9
9	Cheek /buccal mucosa	325	2.8
10	Gall bladder	236	2.0

Table: Top 10 cancers in male

Sl. no.	Site	Number	Percentage
1	Lung	1837	28.3
2	Oesophagus	451	7.0
3	Stomach	349	5.4
4	Liver	322	5.0
5	Lymph node	275	4.2
6	Rectum	197	3.0
7	Tongue	150	2.3
8	Supraglottis, Epiglottis,	144	2.2
9	Bladder	132	2.0
10	Larynx	119	1.8

Table: Top 10 cancers in female

Sl. no.	Site	Number	Percentage
1	Breast	1615	30.9
2	Cervix	1462	27.9
3	Lung	359	6.9
4	Cheek /buccal mucosa	207	4.0
5	Oesophagus	179	3.4
6	Liver	154	2.9
7	Stomach	148	2.8
8	Rectum	147	2.8
9	Gall bladder	143	2.7
10	Lymph node	96	1.8

D. Special age group cancer:

Pediatrics cancer (0-18 years)

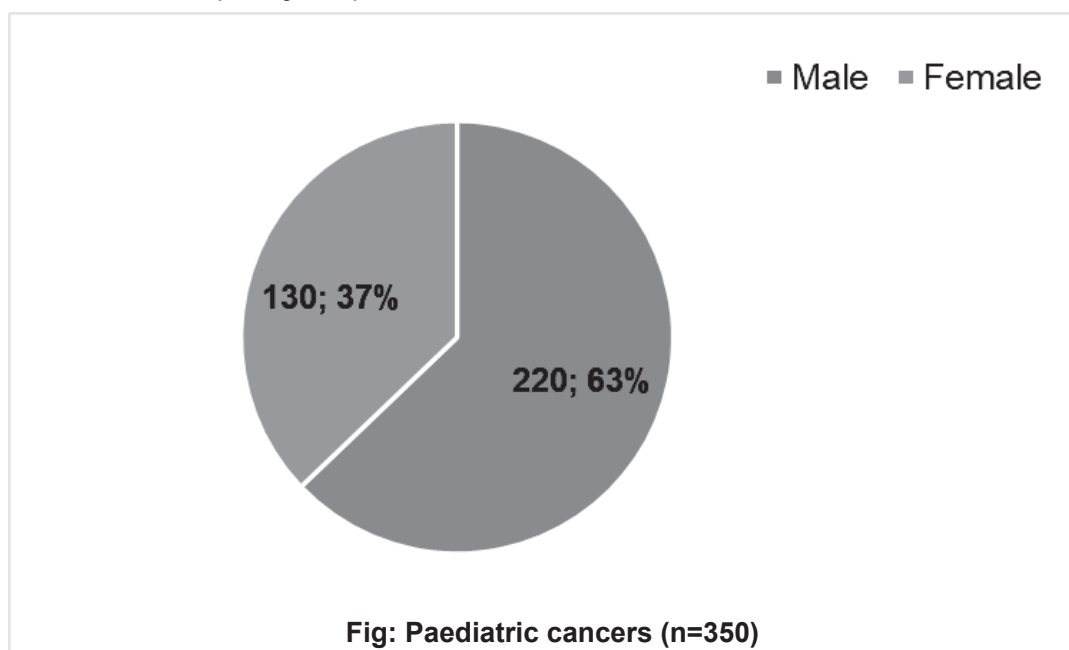


Fig: Paediatric cancers (n=350)

Table: Site of pediatrics cancer (N=350)

Sl. No.	Site of cancer	Frequency	Percent
1.	Sarcoma	108	30.9
2.	Lymphoma	59	16.9
3.	Blood	56	16.0
4.	Eye	22	6.3
5.	Brain	11	3.1
6.	Nasopharynx	7	2.0
7.	Liver	6	1.7
8.	Frontal sinuses	6	1.7
9.	Testis	6	1.7
10.	Rectum	5	1.4

Table: Morphology of paediatric cancer (n=350)

Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	72	20.6
2.	Acute Lymphoblastic Leukemia	58	16.6
3.	NHL	34	9.7
4.	Osteosarcoma	30	8.6
5.	Hodgkin's Lymphoma	25	7.1
6.	Ewing's sarcoma	22	6.3
7.	Retinoblastoma	22	6.3
8.	Adenocarcinoma	18	5.1
9.	Acute Myeloid/Grulocytic Leukemia	9	2.6
10.	Rhabdomyosarcoma	8	2.3

Geriatric cancer (≥65 years)

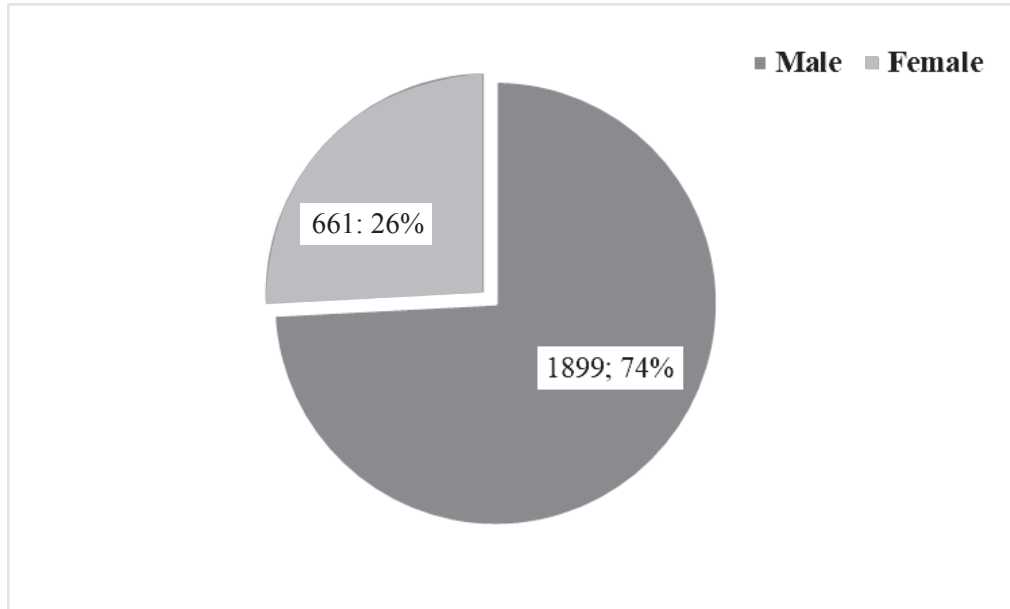


Fig: Sex distribution of the geriatric patients (n=2560)

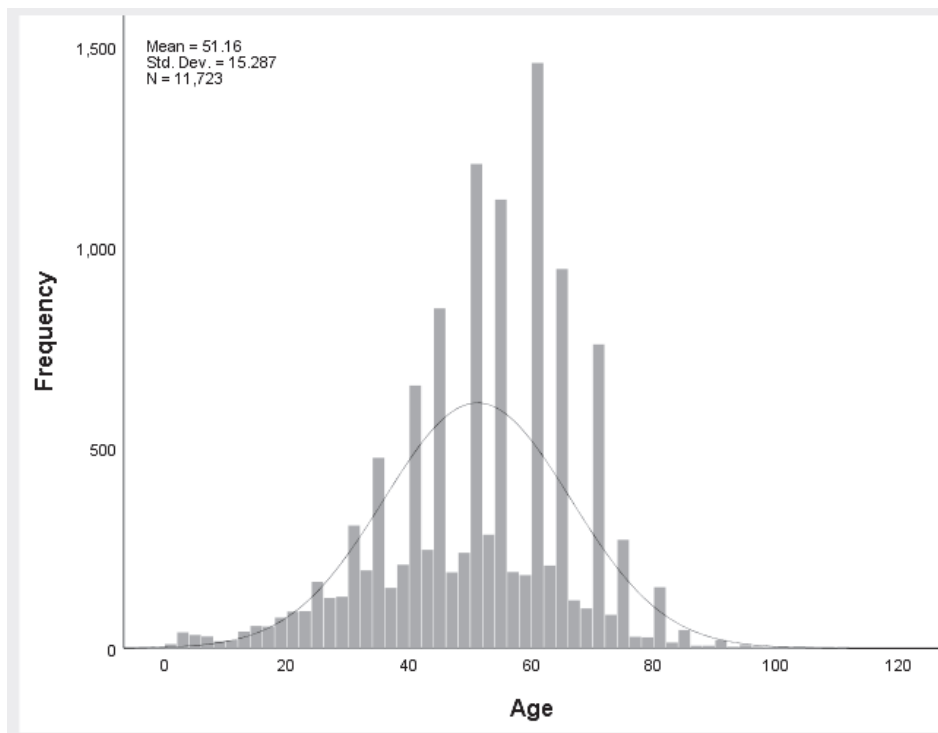
Table: Primary site of geriatric cancers (n=2560)

Sl. No.	Primary site of cancer	Frequency	Percent
1.	Lung	812	31.7
2.	Oesophagus	178	7.0
3.	Stomach	130	5.1
4.	Liver	96	3.8
5.	Breast	88	3.4
6.	Cervix	87	3.4
7.	Cheek /buccal mucosa	82	3.2
8.	Lymphoma	67	2.6
9.	Prostate	55	2.1
10.	Tongue	51	2.0

Table: Primary site of geriatric cancers (n=2560)

Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	1527	59.6
2.	Adenocarcinoma	516	20.2
3.	Hepatocellular ca	95	3.7
4.	Duct cell ca	89	3.5
5.	Small cell ca	66	2.6
6.	NHL	54	2.1
7.	Malignent tumour	51	2.0
8.	Transitional cell ca	49	1.9
9.	Renal cell ca	14	0.5
10.	Hodgkins' Lymphoma	13	0.5

All sites:



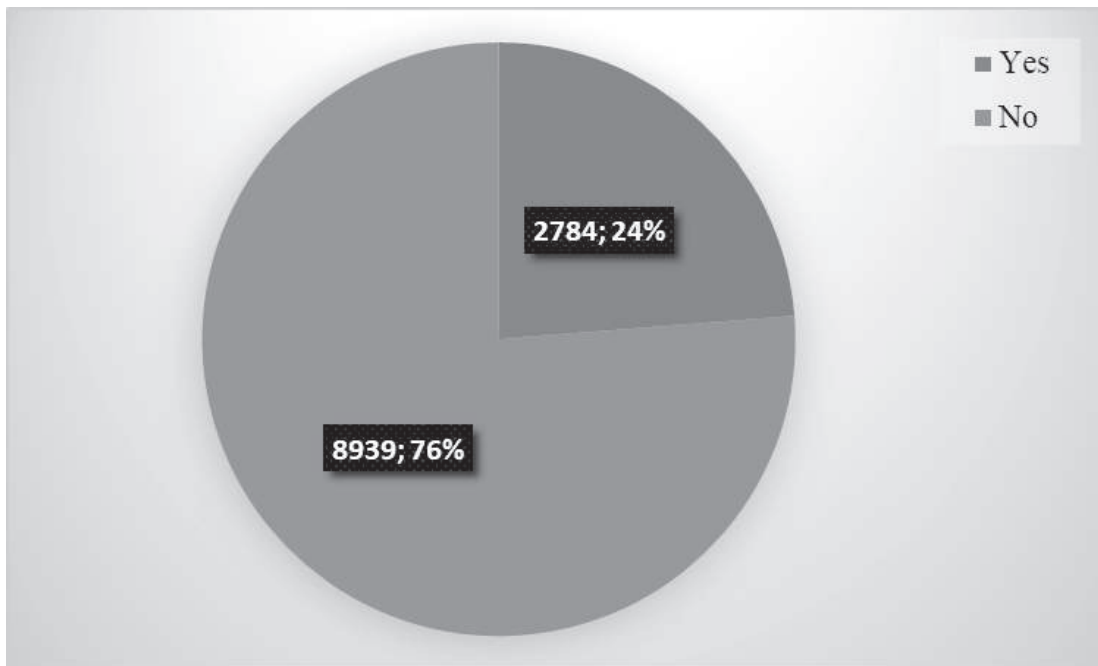


Fig: Method of diagnosis

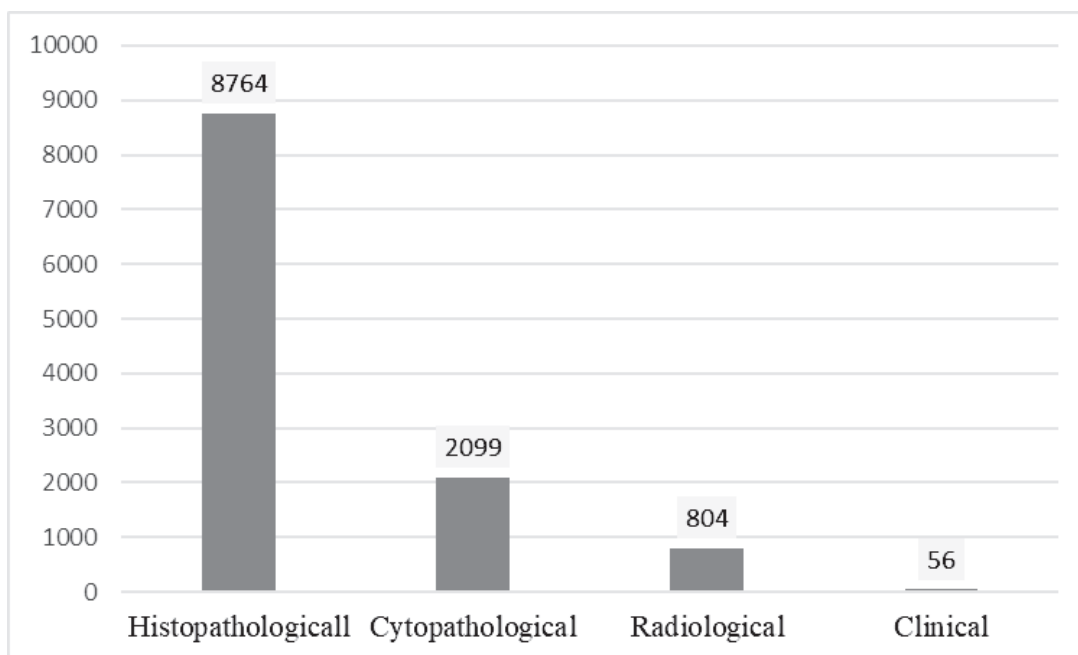


Fig: Received treatment outside NICRH

Head & neck cancer

LIP	10 (0.9)	10 (1.9)	20 (1.2)
Base of the tongue	3 (0.3)	0 (0.0)	3 (0.2)
Tongue	150 (13.9)	68 (12.8)	218 (13.5)
Gum	5 (0.5)	9 (1.7)	14 (0.9)
Floor of the mouth	10 (0.9)	06 (1.1)	16 (1.0)
Hard palate	5 (0.5)	4 (0.8)	9 (0.6)
Soft palate	9 (0.8)	3 (0.6)	12 (0.7)
Uvula	0 (0.0)	13 (2.4)	13 (0.8)
Palate	12 (1.1)	15 (2.8)	27 (1.7)
Cheek /buccal mucosa	118 (10.9)	207 (38.8)	325 (20.1)
Vestibule of mouth	3 (0.3)	1 (0.2)	4 (0.2)
Oral cavity/Buccal cavity	15 (1.4)	18 (3.4)	33 (2.0)
Parotid Gland	22 (2.0)	12 (2.3)	34 (2.1)
Sub mandibular/maxillary gland	44 (4.1)	39 (7.3)	83 (5.1)
Tonsillar fossa	9 (0.8)	3 (0.6)	12 (0.7)
Tonsil	69 (6.4)	24 (4.5)	93 (5.8)
Valecula	6 (0.6)	3(0.6)	9 (0.6)
Branchial cleft	48 (4.4)	7 (1.3)	55 (3.4)
Oropharynx	1 (0.1)	0 (0.0)	1 (0.1)
Nasopharynx	26 (2.4)	10 (1.9)	36 (2.2)
Pyriformsinus/fossa	91 (8.4)	17 (3.2)	108 (6.7)
Cricoid	0 (0.0)	1 (0.2)	1 (0.1)
Aryepiglottic fold	4 (0.4)	1 (0.2)	5 (0.3)
Hypopharynx	9 (0.8)	0 (0.0)	9 (0.6)
Pharynx	22 (2.0)	6 (1.1)	28 (1.7)
Nasal cavity	7 (0.6)	2 (0.4)	9 (0.6)
Maxillary sinuses	17 (1.6)	11 (2.1)	28 (1.7)
Ethmoid sinuses	0 (0.0)	1 (0.2)	1 (0.1)
Frontal sinuses	12 (1.1)	4 (0.8)	16 (1.0)
Glottis, Vocal cord	92 (8.5)	10 (1.9)	102 (6.3)
Supraglottis, Epiglottis,	144 (1.3)	18 (3.4)	162 (10.0)
Larynx	119 (11.0)	10 (1.9)	129 (8.0)
Total	1082 (100.0)	533 (100.0)	1615 (100.0)

Percentages are given in the parenthesis

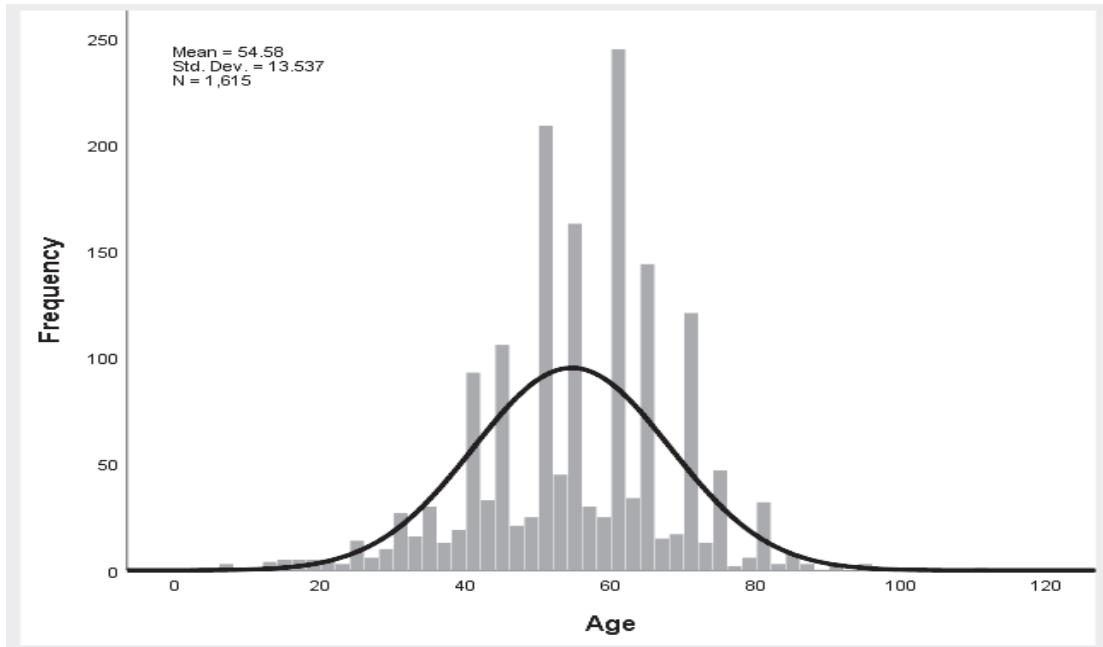


Fig: Age distribution of H & N cancers

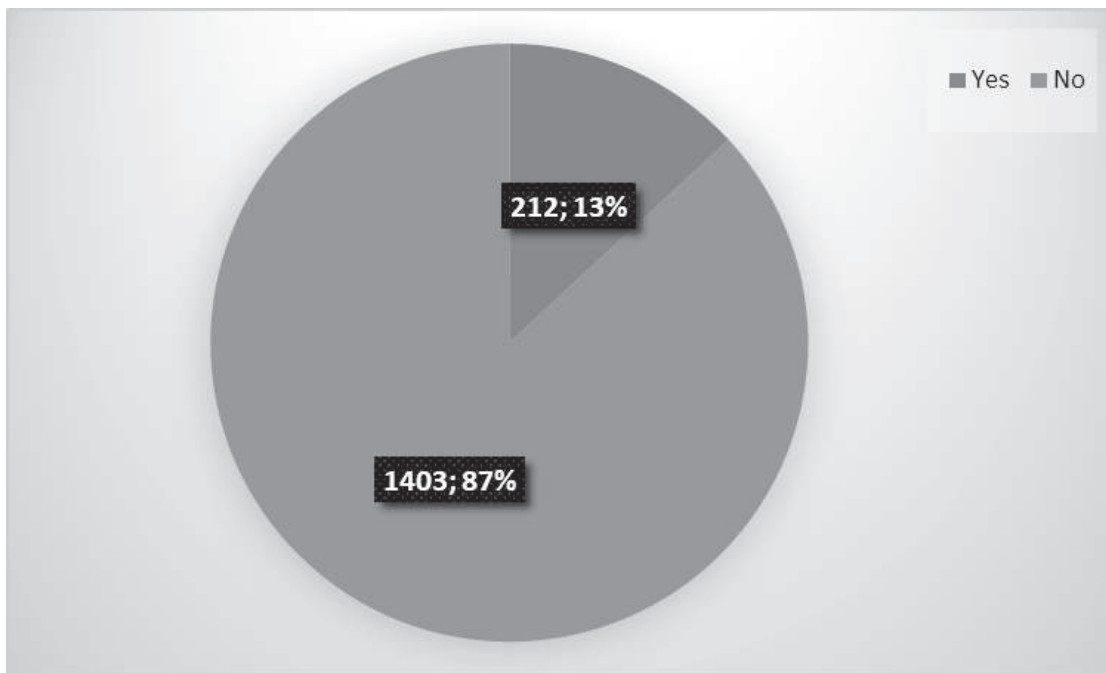


Fig: Case referral (H&N cancers)

Respiratory System

Primary site of tumour	Sex		Total
	Male	Female	
Bronchus	82 (4.2)	8 (2.1)	90 (3.8)
Lung	1837 (93.9)	359 (93.2)	2196 (93.8)
Pleura	37 (1.9)	18 (4.7)	55 (2.3)
Total	1956 (100.0)	385 (100.0)	2341 (100.0)

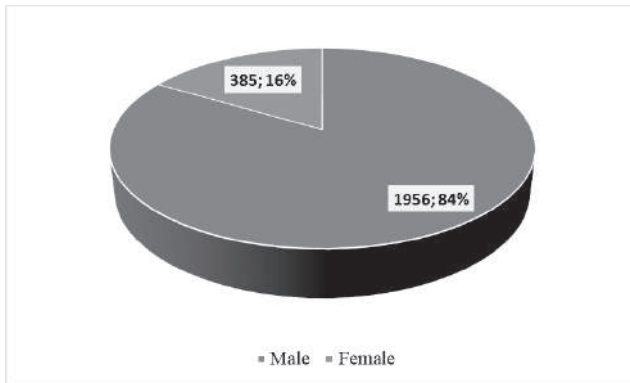
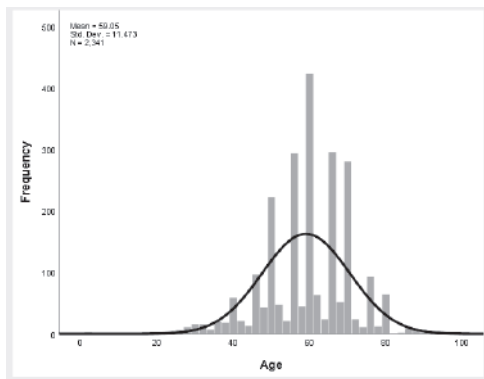


Fig: Age distribution of respiratory cancers

H. Lung cancer:

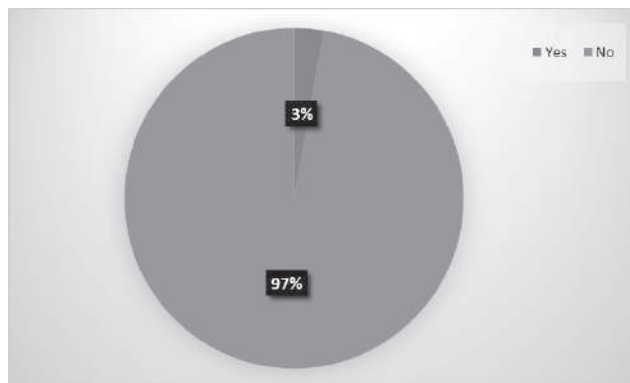
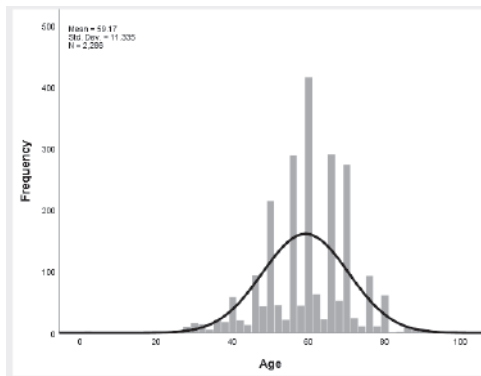


Figure: Age group distribution of lung cancer patients

Fig: Case Referral (lung cancer)

Male 1919 (83.9%), female 367 (16.1%) male female ratio 5.2:1.
Mean age 59.17 year, SD±11.34 years.

Table: Morphology of lung cancer (N=2286)

Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	1546	67.6
2.	Adenocarcinoma	538	23.5
3.	Small cell ca	171	7.5
4.	Malignant tumour	21	0.9
5.	Other	10	0.4
	Total	2286	100.0

I. Breast cancer:

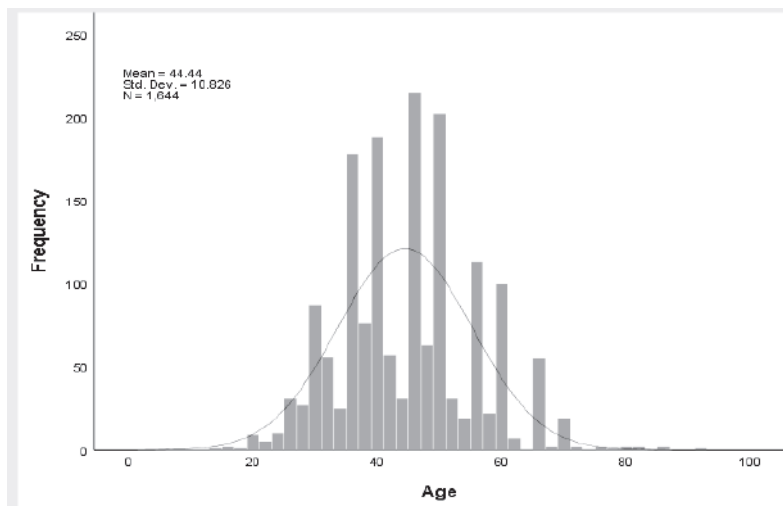


Fig: Age group distribution of breast cancer patients
Mean age 44.44 years, SD ± 10.83 years

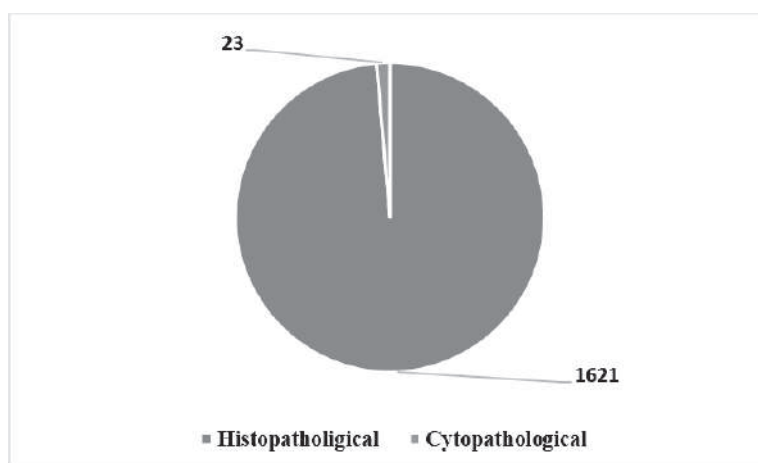


Fig: Dia gnostic status (n=1644) i n

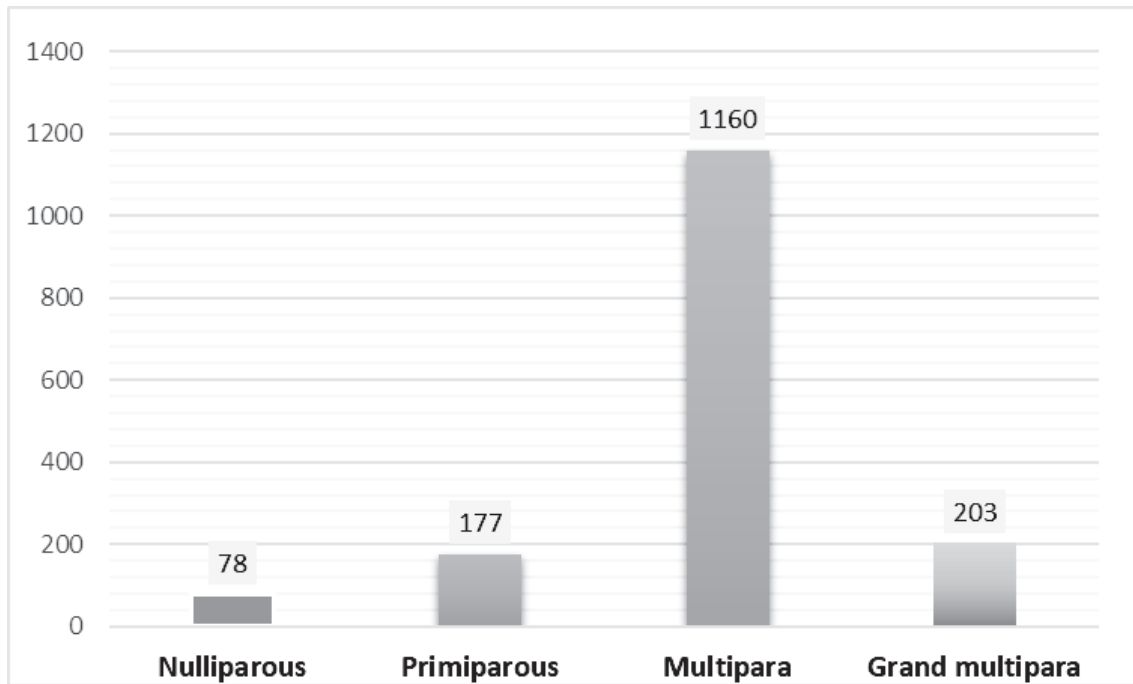


Fig: Parity and breast cancer (n=1618)

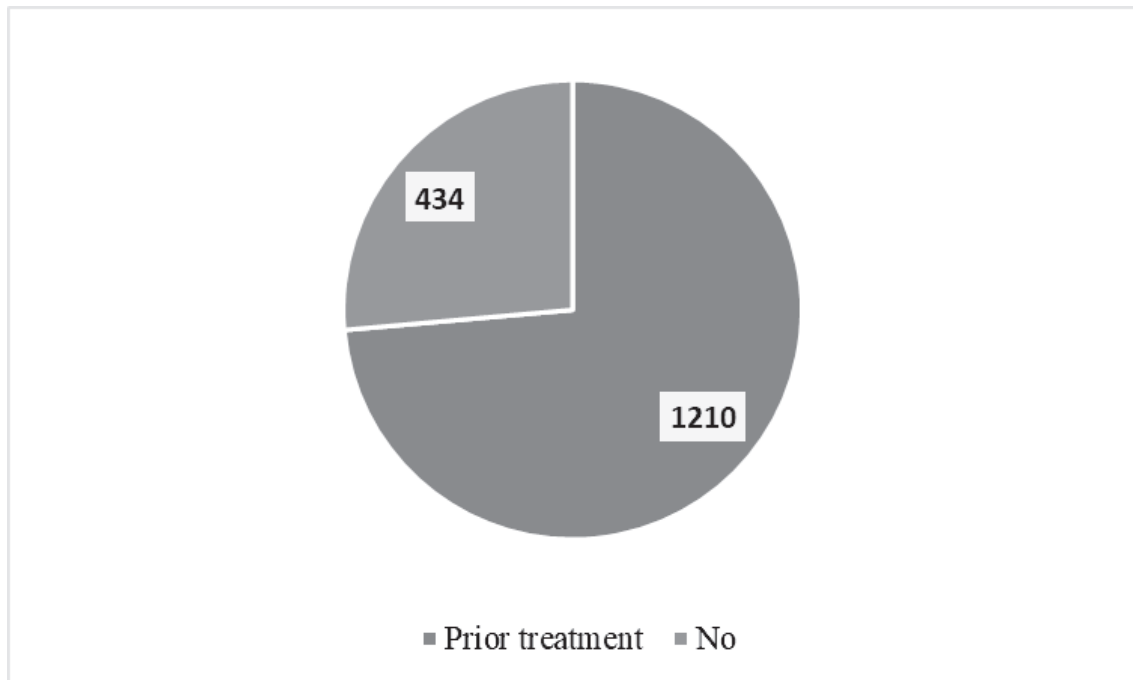


Fig: Case referral (Breast cancer)

J. GIT

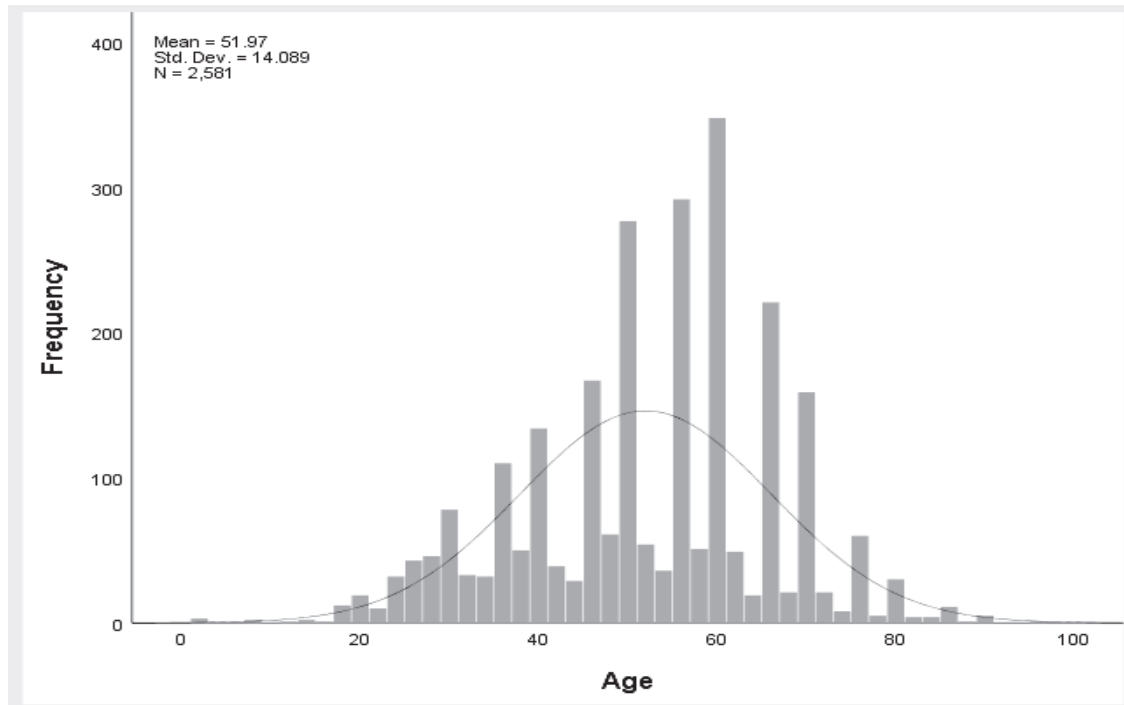


Fig: Age group distribution (GIT)
Mean age 51.97 years, SD± 14.09 years, M: F= 1.7:1.

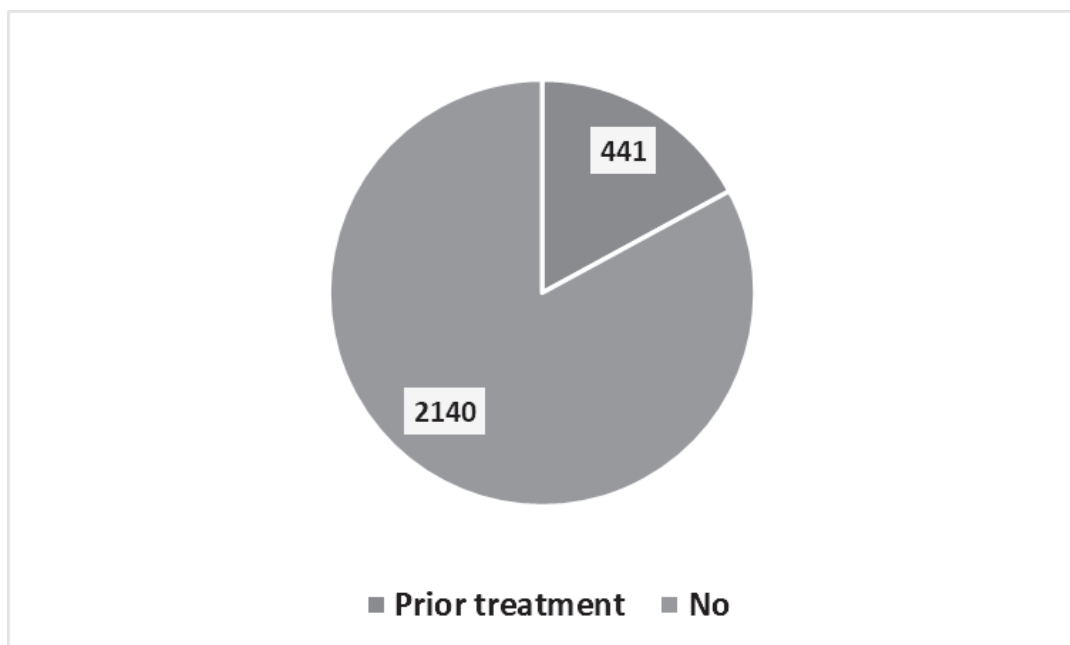
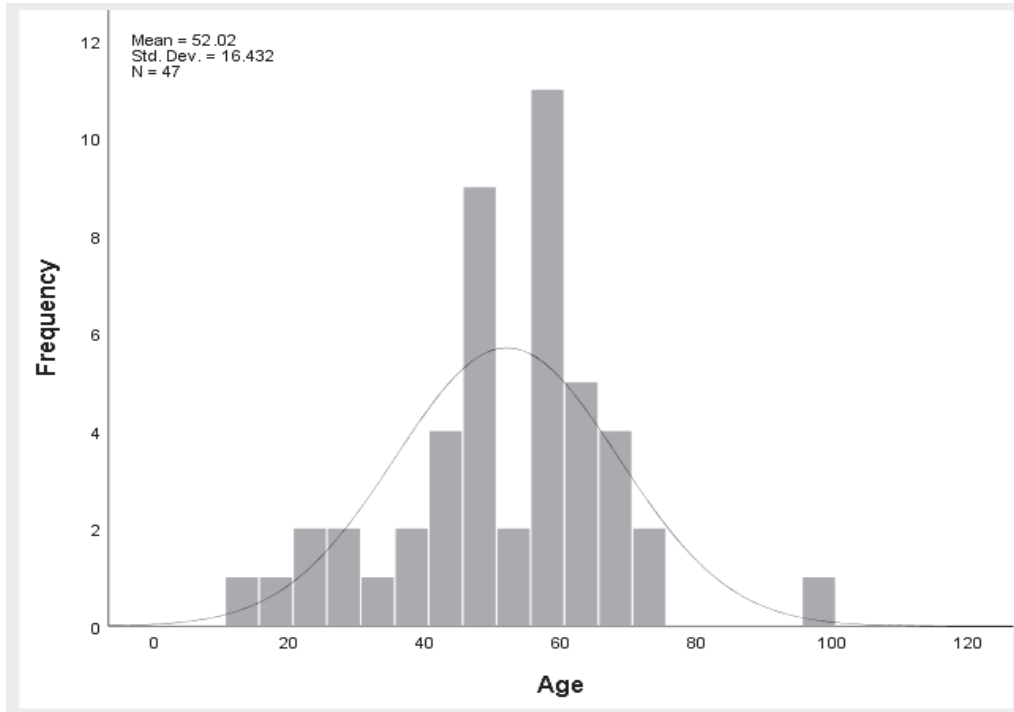


Fig: Case referral (GIT)

Primary site of GI cancer

Primary site of tumour	Sex		Total
	Male	Female	
Cervical oesophagus	36 (2.2)	20 (2.1)	56 (2.2)
Abdominal oesophagus	1 (0.1)	1 (0.1)	2 (0.1)
Oesophagus	451 (27.5)	179 (19.0)	630 (24.4)
Gastric antrum	2 (0.1)	7 (0.7)	9 (0.3)
Stomach	349 (21.3)	148 (15.7)	497 (19.3)
Duodenum	8 (0.5)	2 (0.2)	10 (0.4)
Ileum	3 (0.2)	5 (0.5)	8 (0.3)
Cecum	7 (0.4)	10 (1.1)	17 (0.7)
Ascending colon	1 (0.1)	0 (0.0)	1 (0.0)
Hepatic flexure	9 (0.5)	0 (0.0)	9 (0.3)
Colon	97 (5.9)	77 (8.2)	174 (6.7)
Rectum	197 (12.0)	147 (15.6)	344 (13.3)
Anus	0 (0.0)	1 (0.1)	1 (0.0)
Anal canal	20 (1.2)	15 (1.6)	35 (1.4)
Liver	322 (19.6)	154 (16.4)	476 (18.4)
Intra hepatic bile duct	5 (0.3)	4 (0.4)	9 (0.3)
Gall bladder	93 (5.7)	143 (15.2)	236 (9.1)
Bile duct	0 (0.0)	1 (0.1)	1 (0.0)
Ampulla of vater	1 (0.1)	4 (0.4)	5 (0.2)
Head of pancreas	12 (0.7)	0 (0.0)	12 (0.5)
Pancreas	27 (1.6)	22 (2.3)	49 (1.9)
Total	1641 (100.0)	940 (100.0)	2581 (100.0)

K. Bone



Fig; Age distribution
Mean age 52.02 years, SD \pm 16.432 years, M: F= 2.6: 1

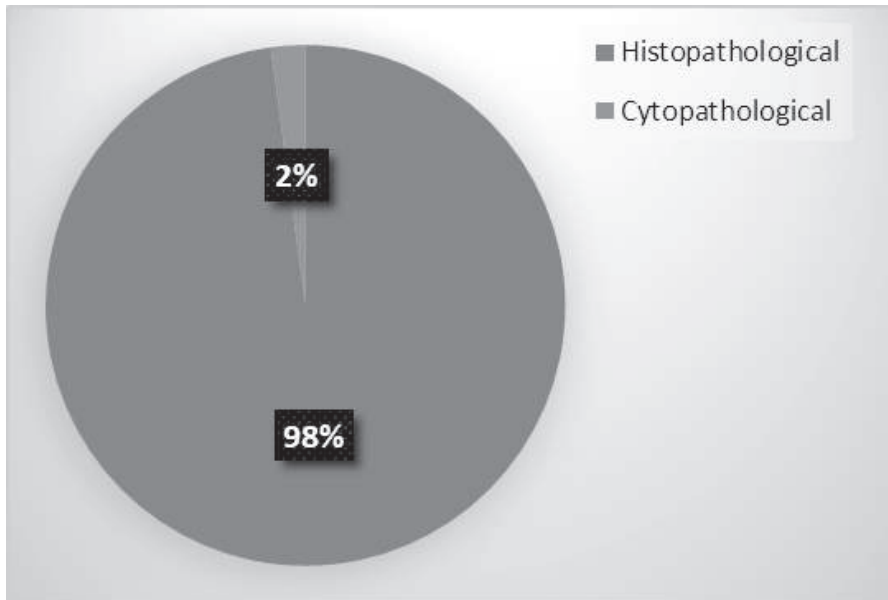


Fig: Diagnostic status (Bone cancer)

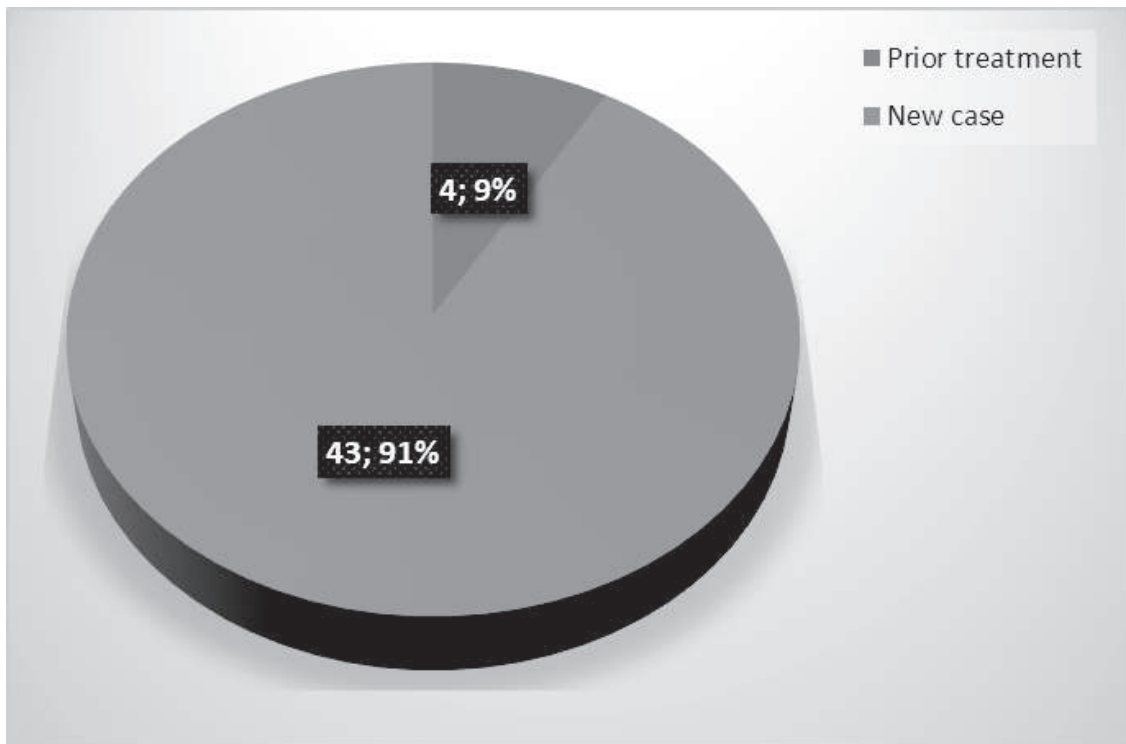


Fig: Case referral (Bone cancer)

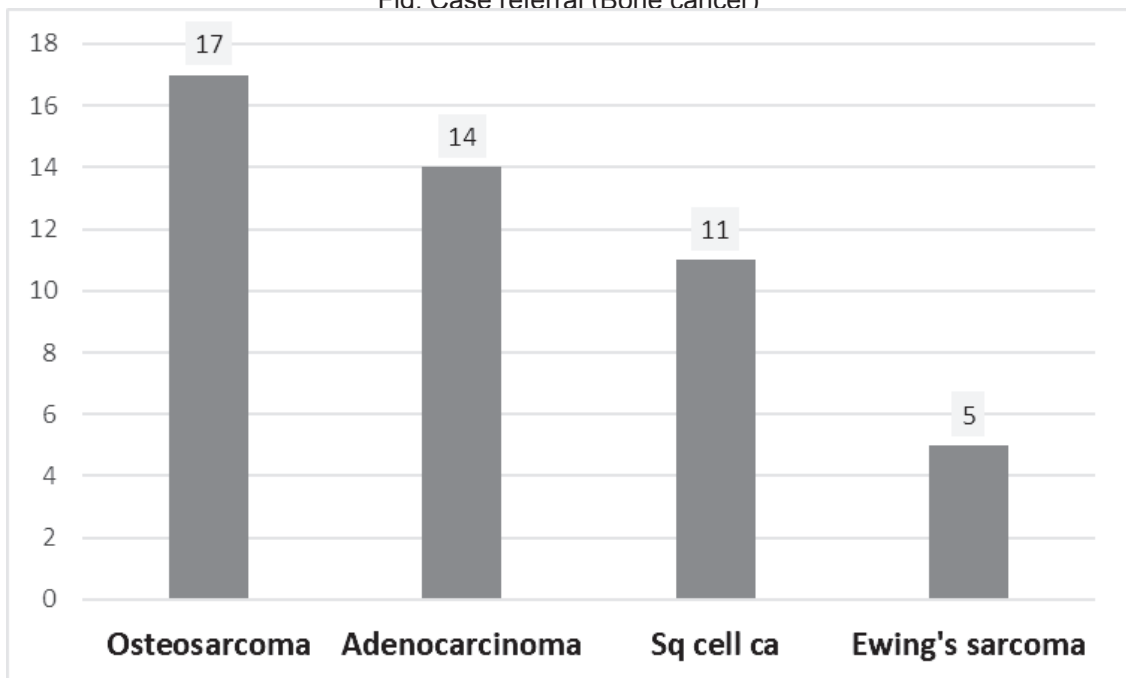


Fig: Histological pattern (Bone Cancer)

Female genital organs

Site	Frequency	Percent
Ca vulva	36	1.7
Ca vagina	31	1.4
Ca cervix	1462	67.9
Ca uterus	104	4.8
Ca ovary	486	22.6
Placenta (GTN)	33	1.5
Total	2152	100.0

M. Cervical cancer:

Table: Morphology of cervical cancer (N=1462)

Morphology	Frequency	Percentage
Squamous cell carcinoma	1225	83.8
Adenocarcinoma	91	6.2
Others	5	0.3
No HPR	141	9.6
Total	1462	100.0

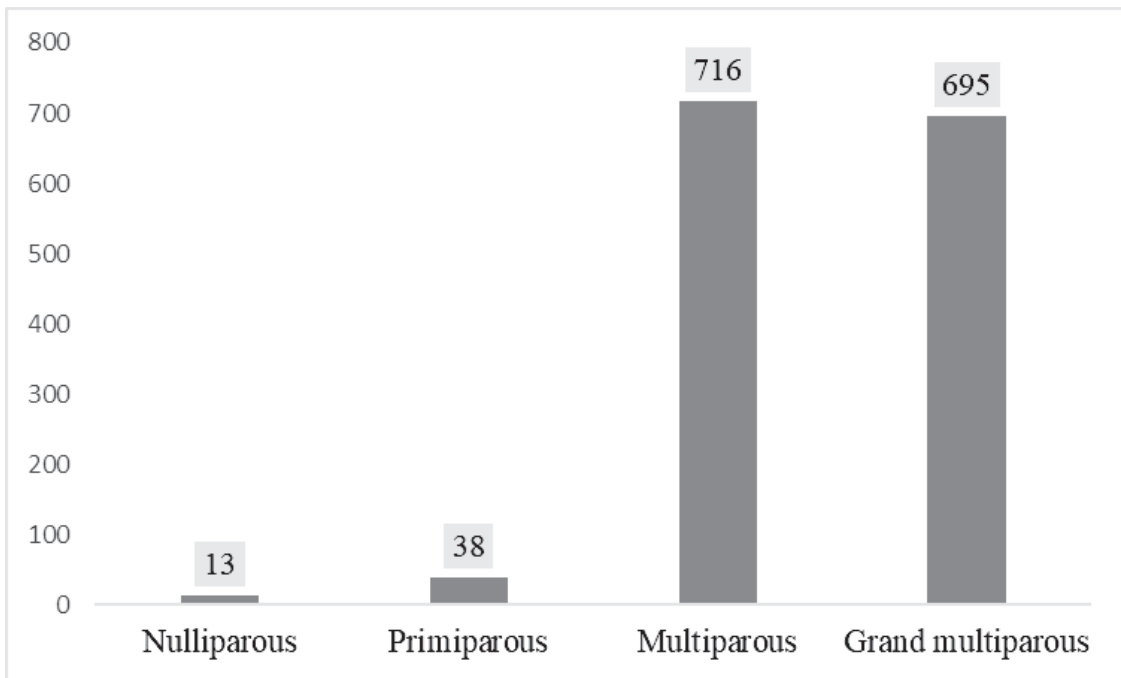


Fig: Parity and cervical cancer

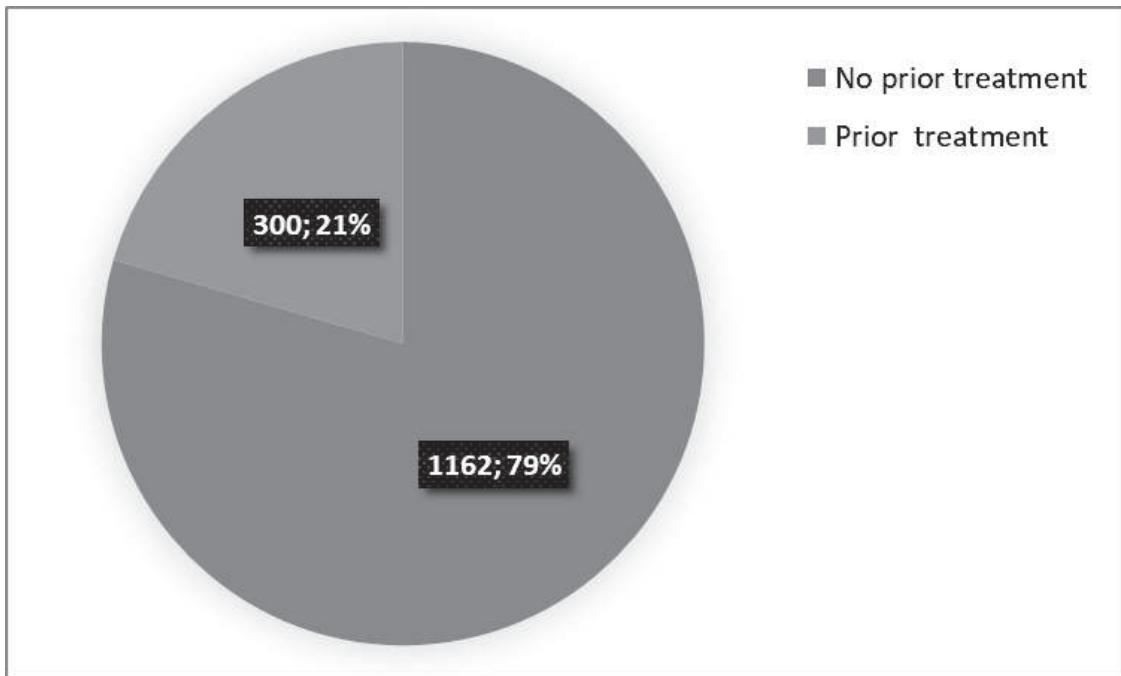


Fig: Case referral (Cx)

N. Ovary

Table: Morphological type of ovarian cancer

Site of ovarian cancer	Frequency	Percentage
Adenocarcinoma	56	11.5
Papillary serous carcinoma	290	59.7
Mucinous carcinoma	45	9.3
Dysgerminoma	6	1.2
Germ cell tumour	19	3.9
Endometrioid carcinoma	14	2.9
Krukenberg tumour	5	1.0
Dermoid cyst	3	0.6
Teratoma	3	0.6
Clear cell carcinoma	2	0.4
Primary peritoneal carcinoma	1	0.2
Undifferentiated	2	0.4
No HPR	40	8.2
Total	486	100.0

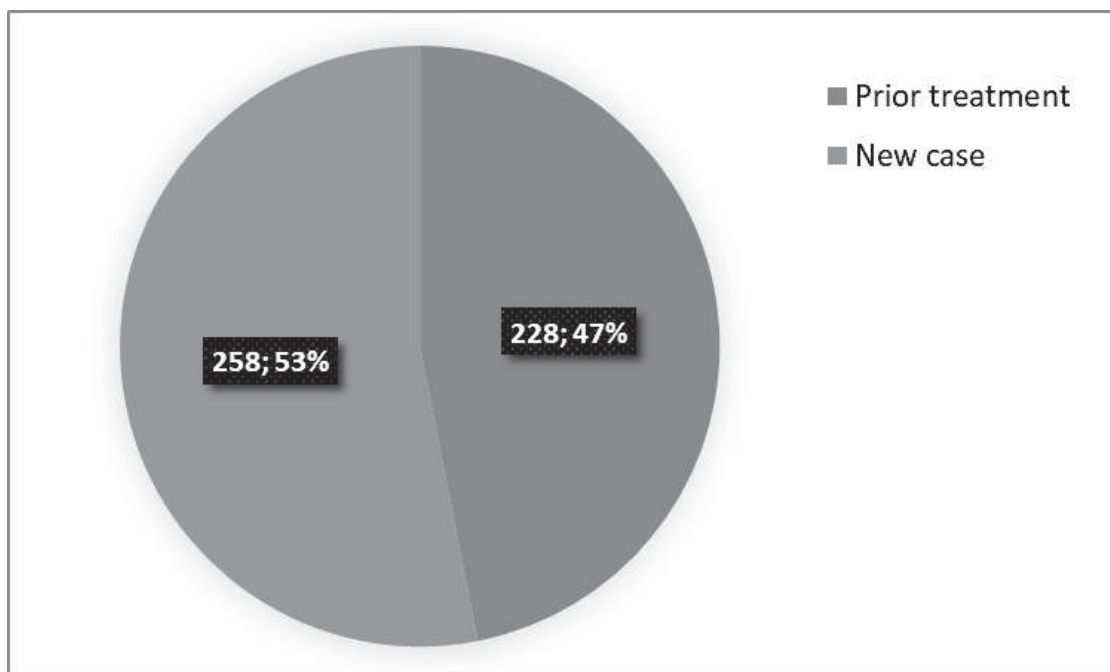


Fig: Case referral (Ovarian cancer)

Table: Morphological type of uterine cancer

Morphology	Frequency	Percentage
Adenocarcinoma	67	64.4
Papillary serous carcinoma	11	10.6
Mixed mullerian tumour	1	1.0
Stromal sarcoma	6	5.8
Adenosquamous carcinoma	1	1.0
Leiomyosarcoma	8	7.7
Carcinosarcoma	3	2.9
Squamous cell carcinoma	2	1.9
Clear cell carcinoma	1	1.0
HPR not found	4	3.8
Total	104	100.0

Table: Morphological type of vulvar cancer

Morphology	Frequency	Percentage
Squamous cell carcinoma	30	83.3
HPR not found	2	5.6
Basal Cell Carcinoma	3	8.3
Sarcoma	1	2.8
Total	36	100.0

Table: Morphological type of vaginal cancer

Morphology	Frequency	Percentage
Squamous cell carcinoma	26	83.9
Leiomyosarcoma	1	3.2
Adenocarcinoma	2	6.5
Embryonal Rhabdomyosarcoma	1	3.2
Small Cell Carcinoma	1	3.2
Total	31	100.0

O. Male genital organs

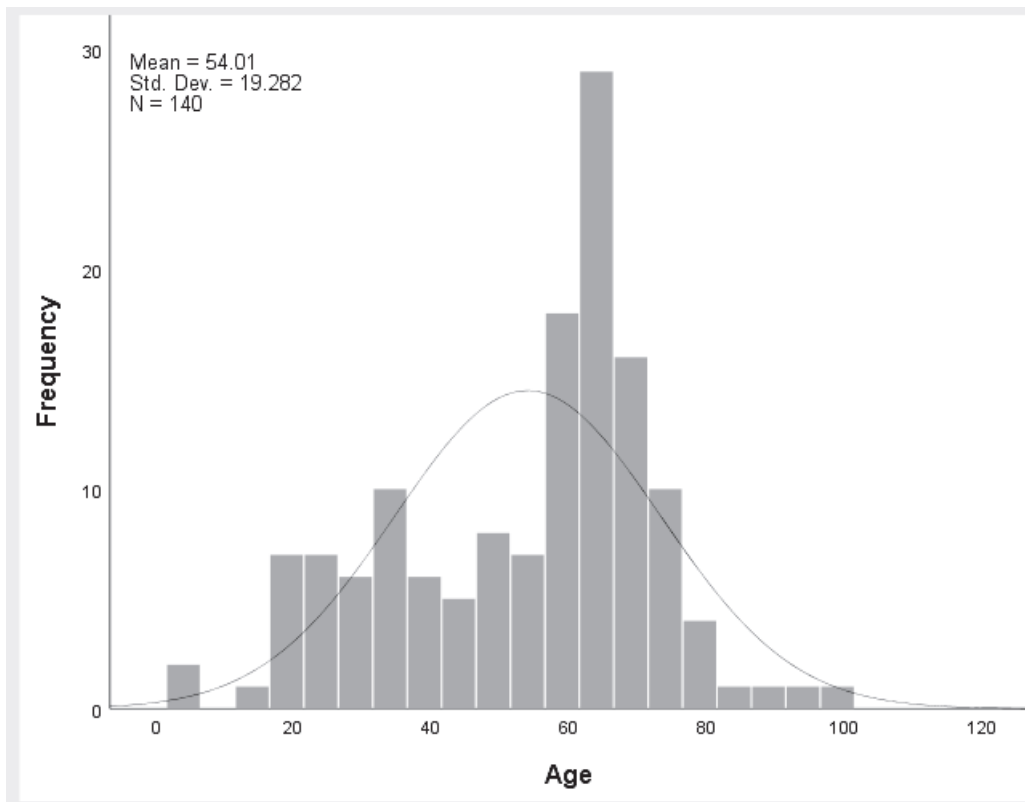


Fig: Age distribution
Mean age 54.01 years SD± 19.282 years

Primary site

Site	Number	Percent
Prostate	11	7.9
Testis	89	63.6
Penis	40	28.6
Total	140	100.0

P. Prostate

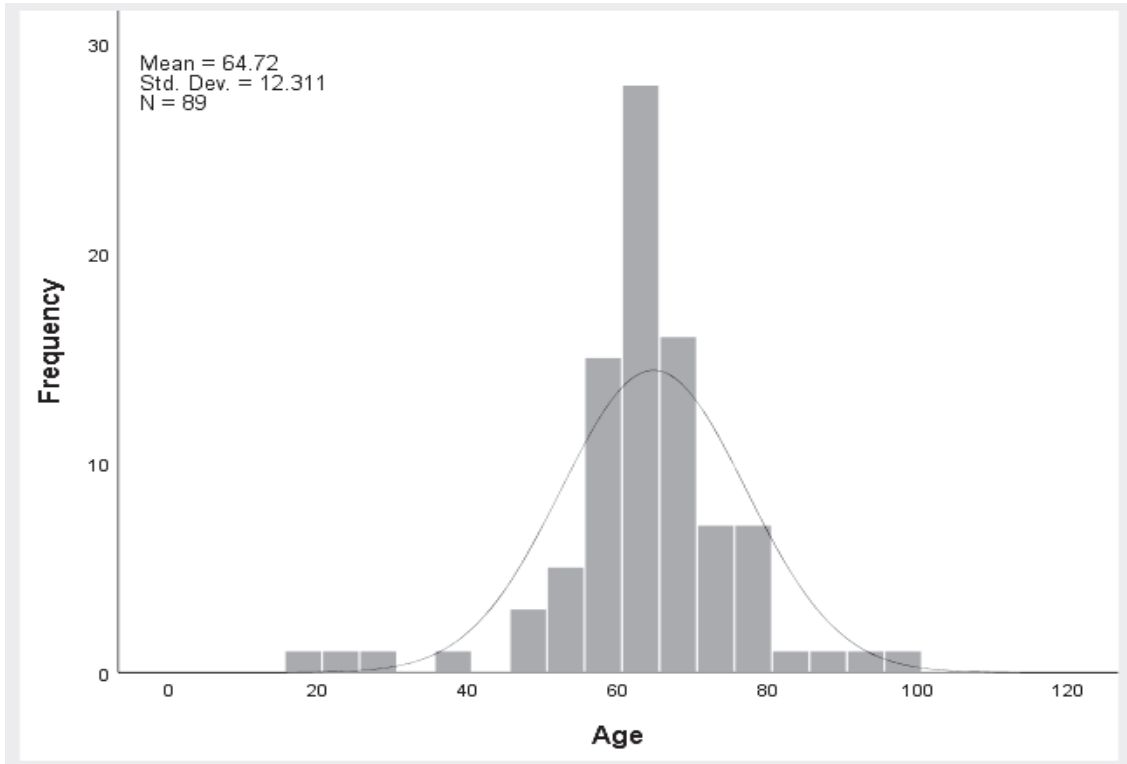


Fig: Age distribution of the patients of prostate cancer
Mean age 64.72 years, SD± 12.31

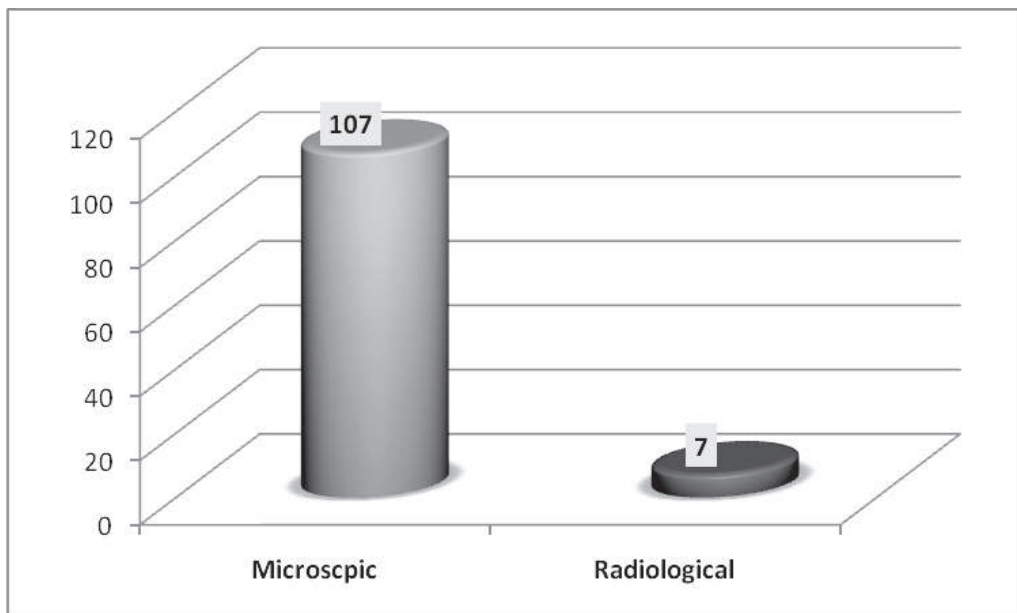


Fig: Diagnostic status (prostate)

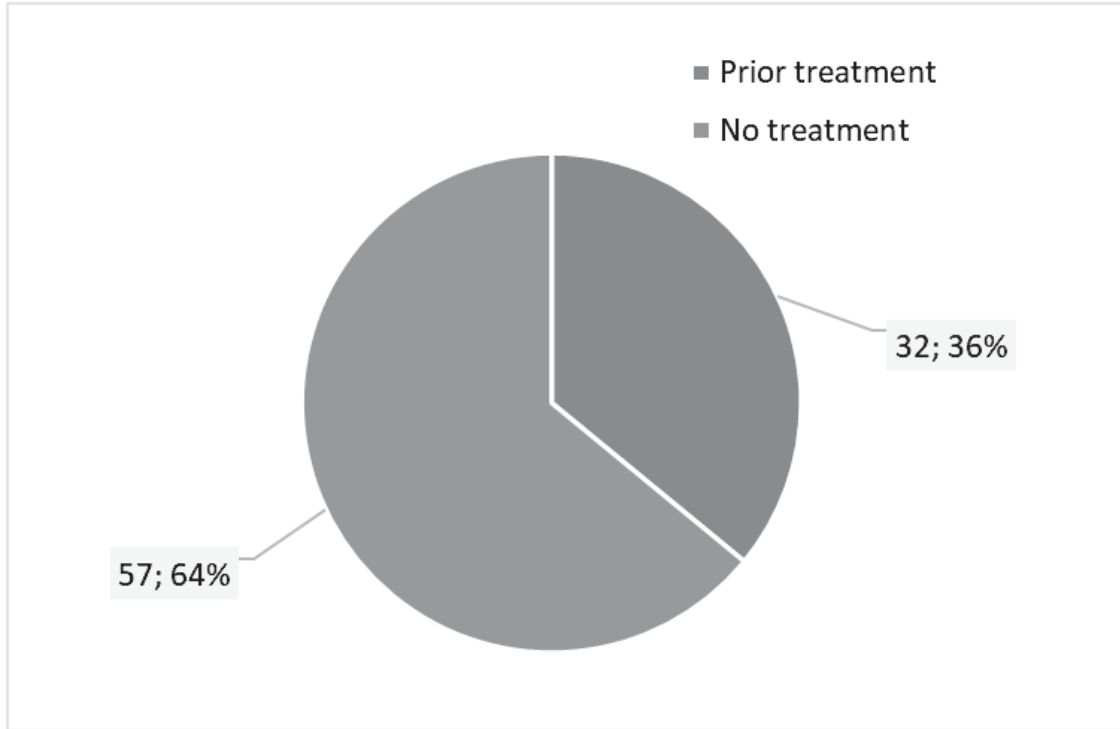


Fig: Case referral (prostate ca)

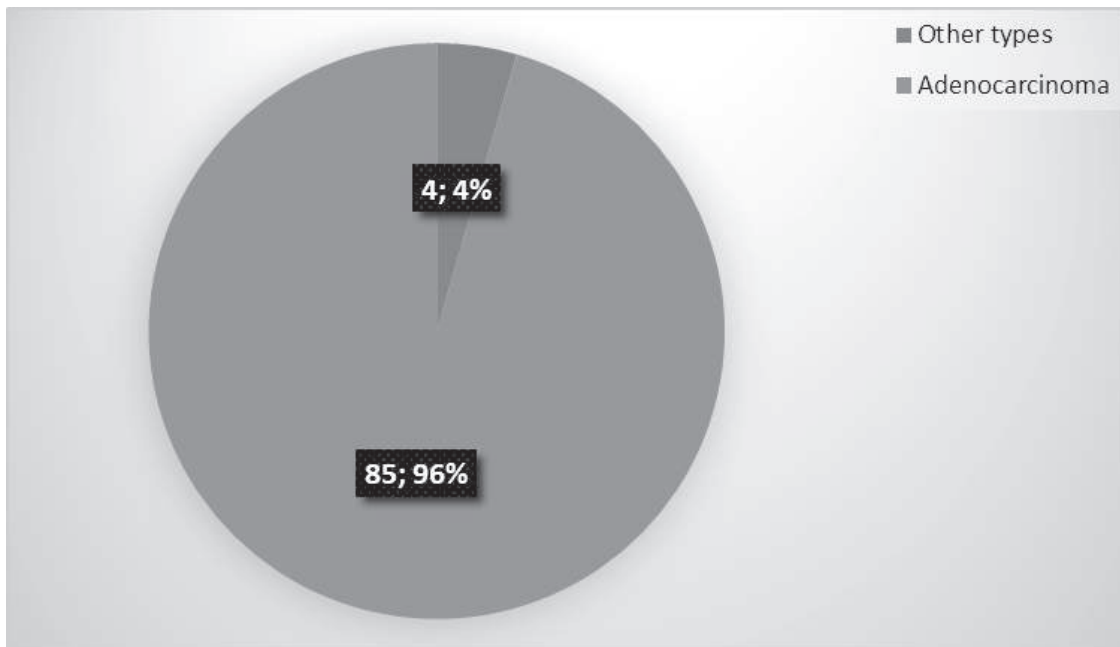


Fig: Morphological type (prostate ca)

Q. Kidney & related organs

Primary site

Primary site of tumour	Sex		Total
	Male	Female	
Kidney	49 (27.1)	26 (38.8)	75 (30.2)
Bladder	132 (72.9)	41 (61.2)	173 (69.8)
Total	181 (100.0)	67 (100.0)	248 (100.0)

R. U. Bladder

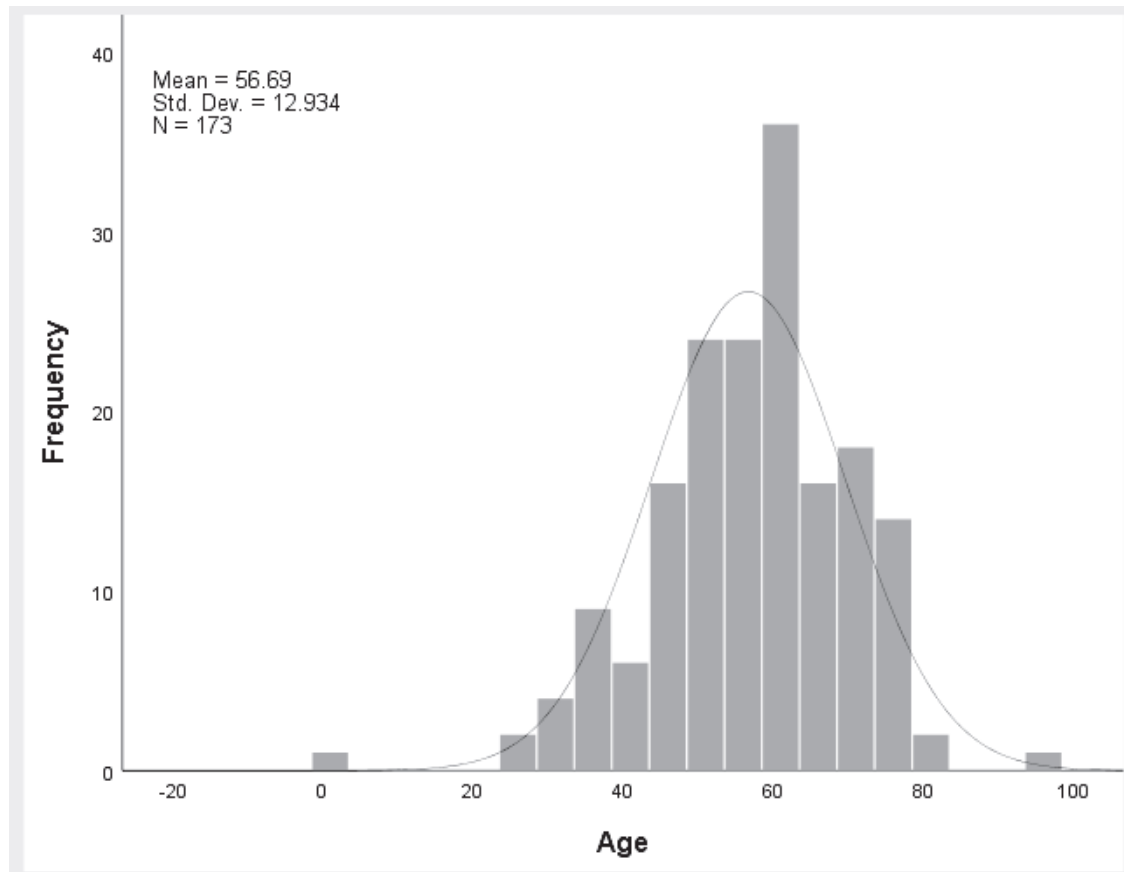


Fig: Age distribution of the patients of Urinary Bladder
Mean age 56.69 SD± 12.93, M: F= 3.2: 1

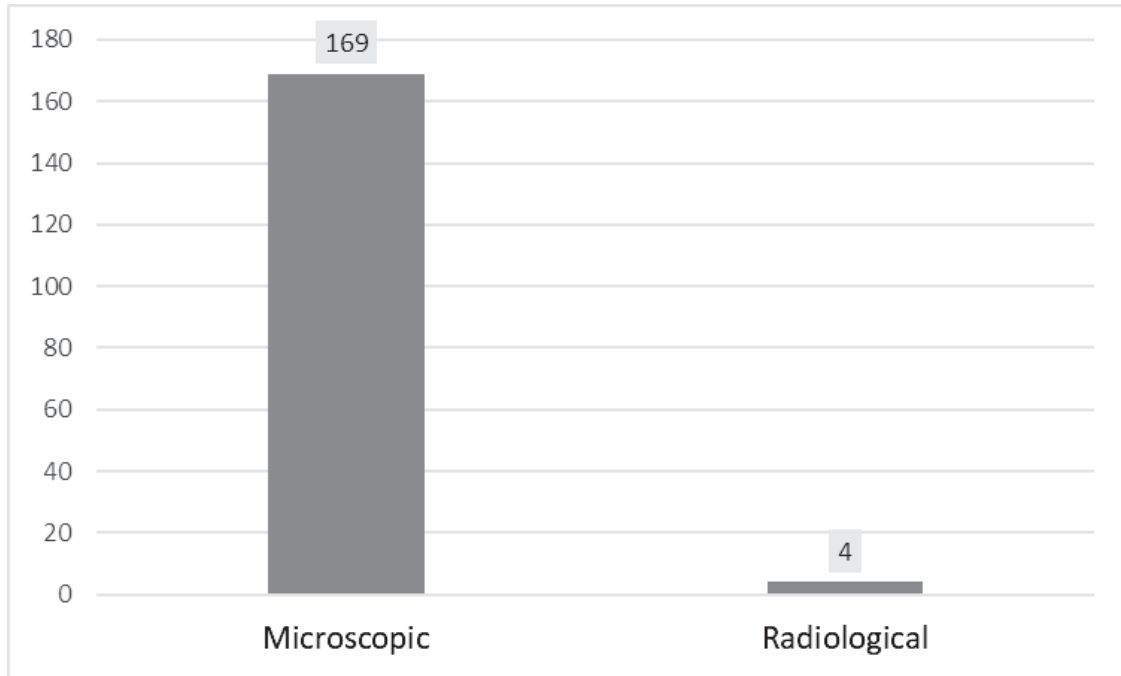


Fig: Diagnostic status (Urinary Bladder ca)

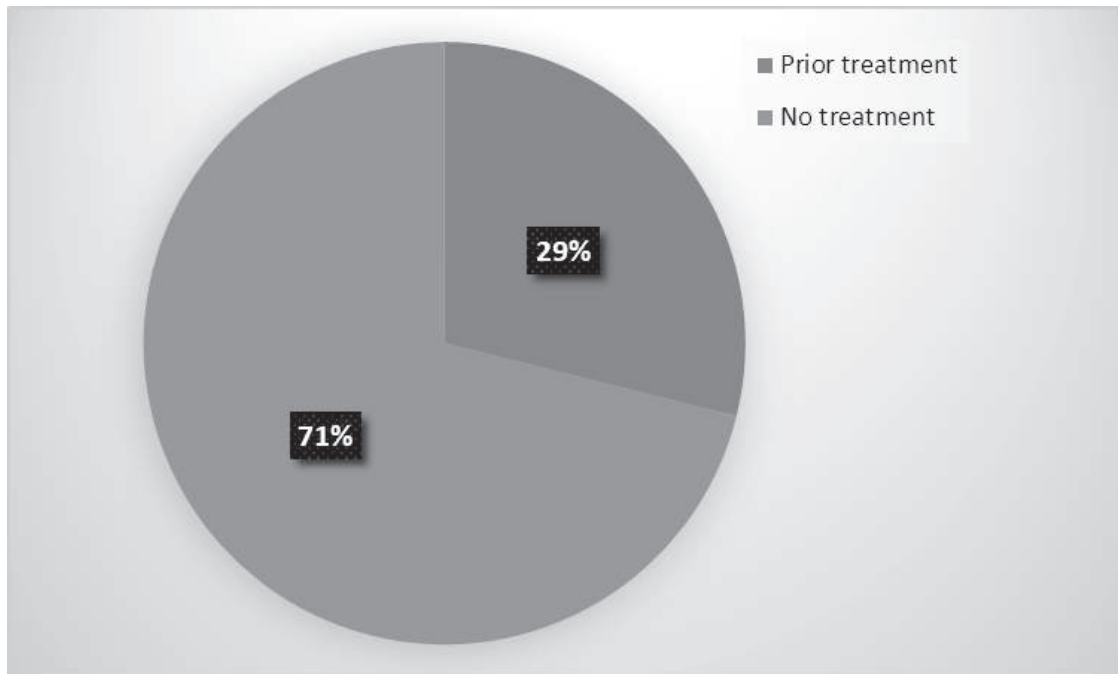


Fig: Case referral (Urinary Bladder ca)

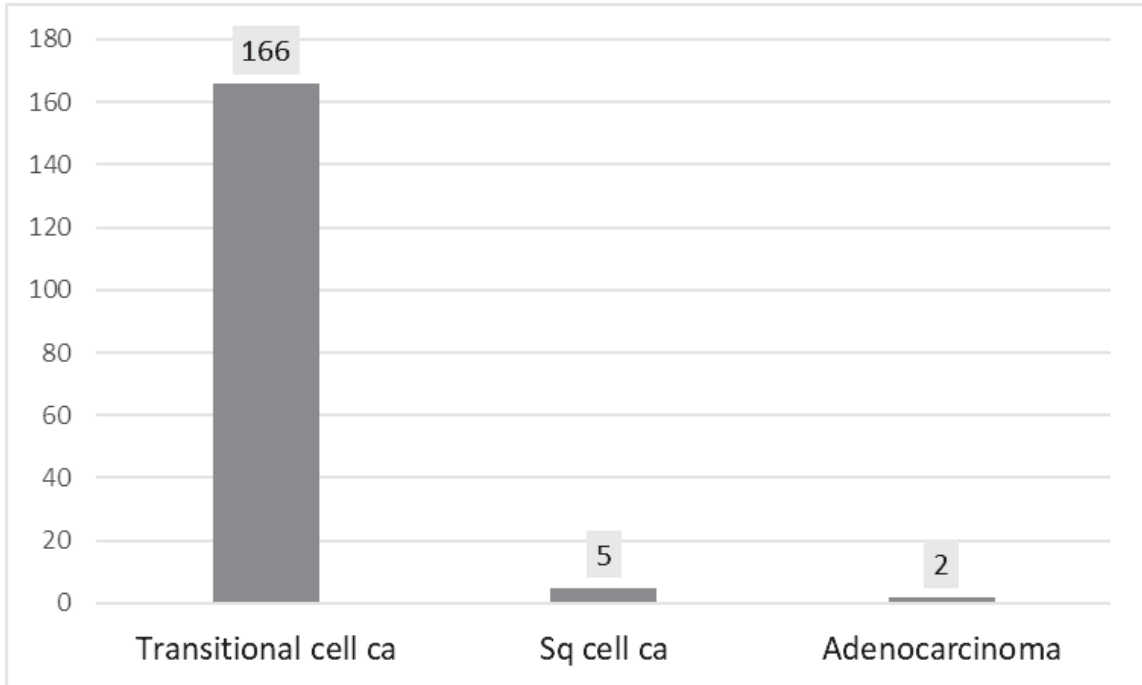


Fig: Morphological type of Urinary Bladder cancer

S. Lymphoma

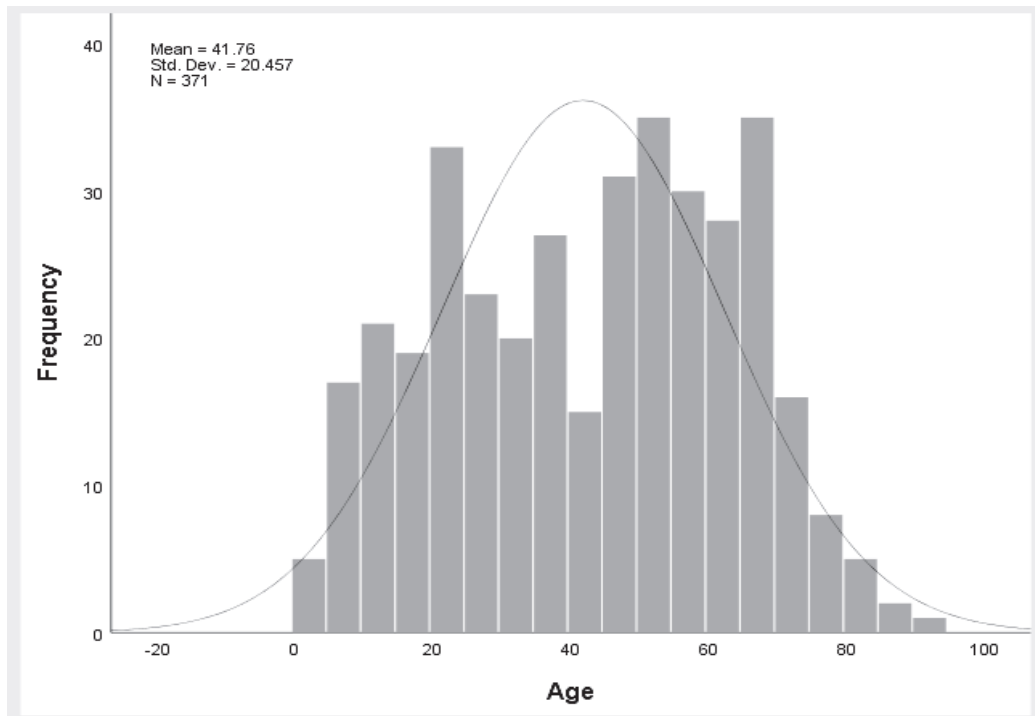


Fig: Age distribution (Lymphoma)
Mean age 41.76 SD± 20.45 years M: F= 2.9:1

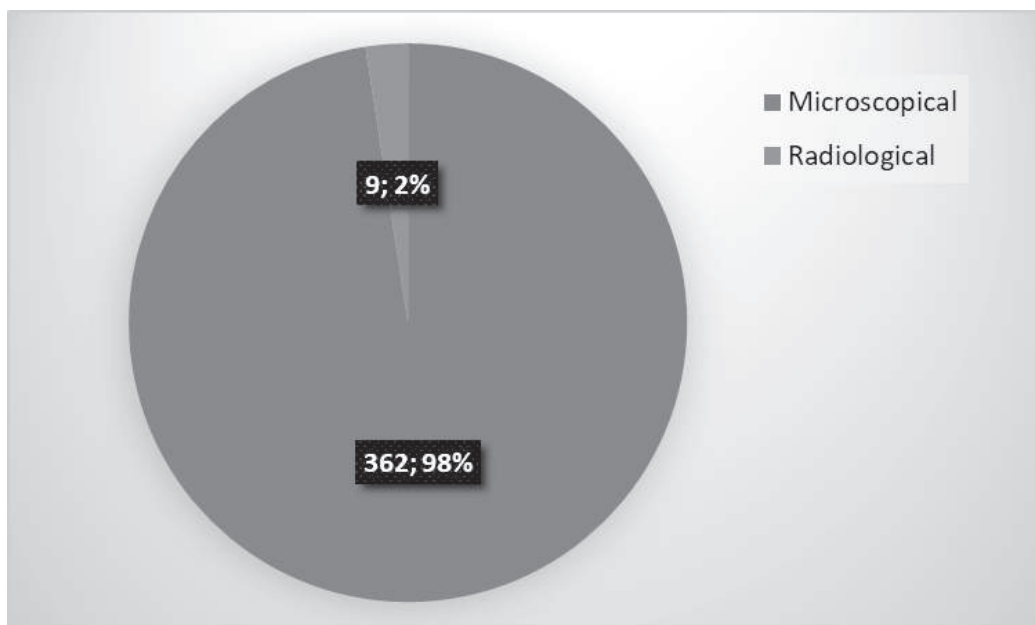


Fig: Diagnostic status (Lymphoma)

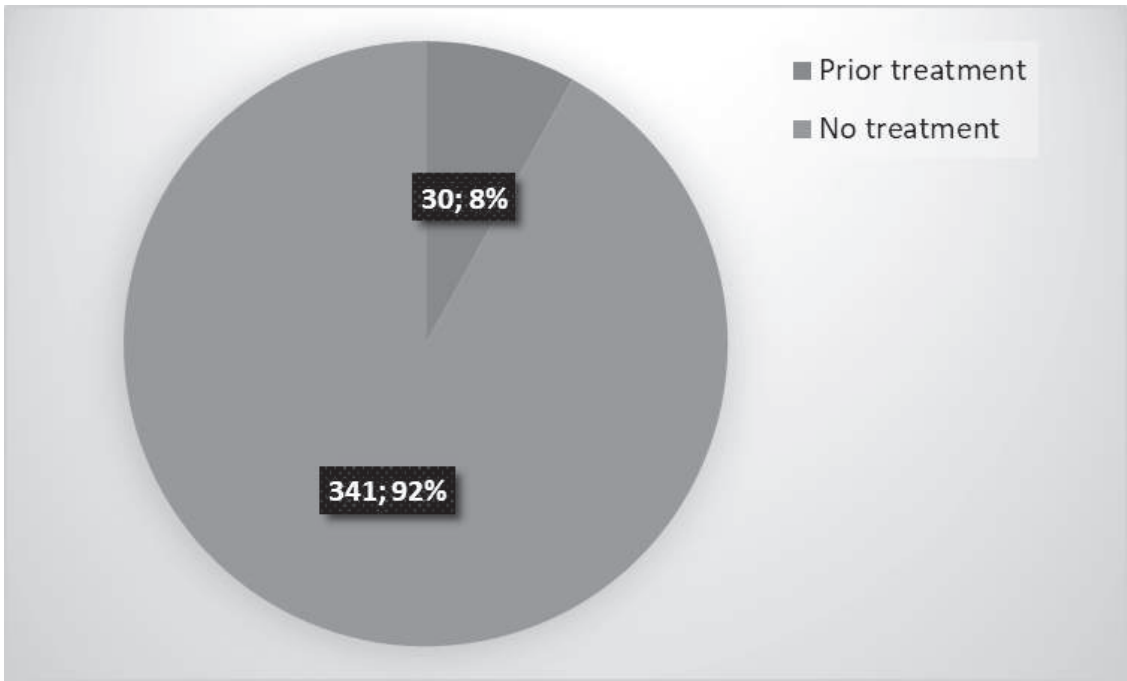


Fig: Case referral (Lymphoma)

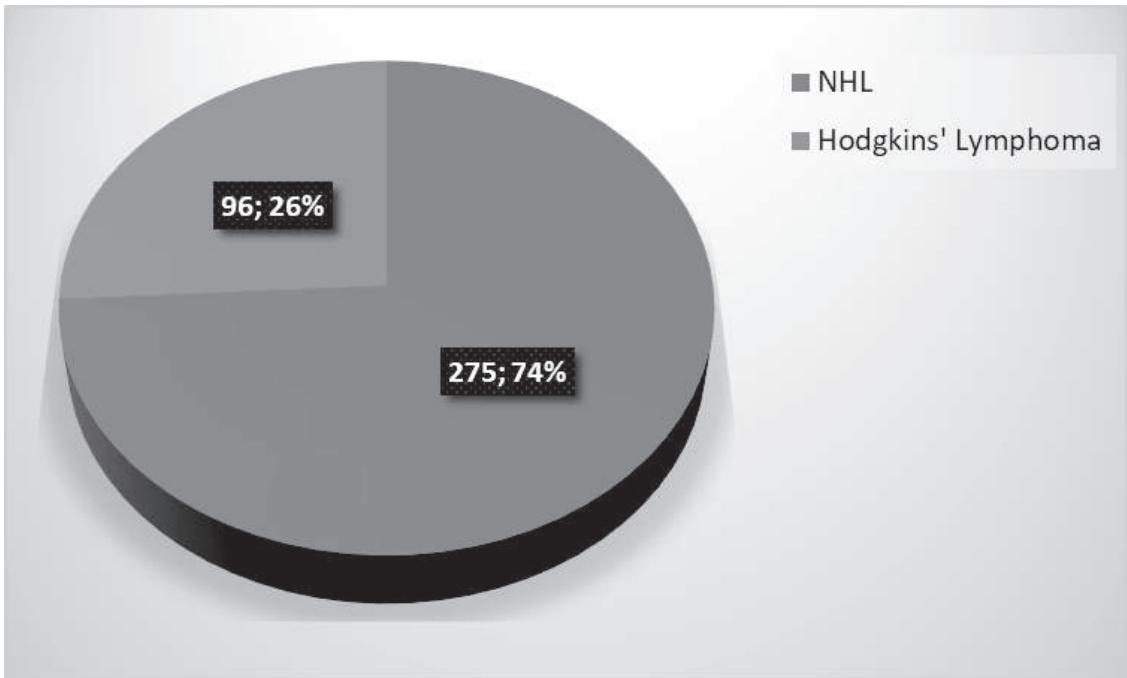


Fig: Morphological type ((Lya)

APPENDICES

Male

ICD-O		Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C00	LIP	0	0	1	1	3	4	1	0	10
C01.9	Base of the tongue	0	0	0	0	2	1	0	0	3
C02.9	Tongue	0	1	9	18	35	48	33	6	150
C03.9	Gum	0	0	1	1	1	0	2	0	5
C04.9	Floor of the mouth	0	0	0	0	4	4	2	0	10
C05.0	Hard palate	1	0	0	1	0	1	1	1	5
C05.1	Soft palate	0	3	1	0	2	2	1	0	9
C05.9	Palate	0	0	2	3	2	3	1	1	12
C06.0	Cheek /buccal mucosa	0	1	6	16	33	28	26	8	118
C06.1	Vestibule of mouth	0	0	0	0	0	1	1	1	3
C06.9	Oral cavity/Buccal cavity	0	0	0	4	6	2	2	1	15
C07.9	Parotid Gland	1	1	2	2	2	6	7	1	22
C08.0	Sub mandibular/maxillary gland	1	0	3	4	14	12	9	1	44
C09.0	Tonsillar fossa	0	0	0	0	0	4	2	3	9
C09.9	Tonsil	0	1	1	2	25	22	14	4	69
C10.0	Valecula	0	0	0	0	2	2	1	1	6
C10.4	Branchial cleft	0	0	1	1	11	20	11	4	48
C10.9	Oropharynx	0	0	0	0	0	0	1	0	1
C11.9	Nasopharynx	2	4	2	2	8	2	5	1	26
C12.9	Pyriiformsinus/fossa	1	2	1	13	20	22	24	8	91
C13.1	Aryepiglottic fold	0	0	0	0	0	2	2	0	4
C13.9	Hypopharynx	0	0	3	0	2	1	3	0	9
C14.0	Pharynx	0	0	0	1	7	8	6	0	22
C15.0	Cervical oesophagus	2	2	1	6	9	8	4	3	35
C15.2	Abdominal oesophagus	0	0	0	0	0	1	0	0	1
C15.9	Oesophagus	0	2	11	44	86	174	100	34	451
C16.3	Gastric antrum	0	0	0	0	0	1	1	0	2
C16.9	Stomach	0	3	17	47	62	116	78	25	348
C17.0	Duodenum	0	0	0	1	5	1	1	0	8
C17.2	Ileum	0	1	0	0	0	2	0	0	3
C18.0	Cecum	0	0	0	1	1	4	1	0	7
C18.2	Ascending colon	0	0	1	0	0	0	0	0	1
C18.3	Hepatic flexure	0	0	2	1	2	1	2	1	9
C18.9	Colon	0	7	18	22	24	18	8	0	97
C20.9	Rectum	1	17	45	27	44	38	23	2	197
C21.1	Anal canal	0	1	0	2	6	7	4	0	20

C22.0	Liver	1	4	28	45	77	90	56	21	322
C	Intra hepatic bile duct	0	0	0	0	2	1	2	0	5
C23.9	Gall bladder	0	0	3	6	18	38	23	5	93
C24.1	Ampulla of vater	0	0	0	1	0	0	0	0	1
C25.0	Head of pancreas	0	0	1	0	0	5	4	2	12
C25.9	Pancreas	0	2	2	6	4	11	2	0	27
C30.0	Nasal cavity	2	0	1	0	2	2	0	0	7
C30.1	Middle ear , inner ear	0	0	0	0	1	2	2	0	5
C31.0	Maxillary sinuses	0	1	1	2	2	3	5	3	17
C31.2	Frontal sinuses	1	3	2	4	2	0	0	0	12
C32.0	Glottis, Vocal cord	0	0	1	7	27	34	16	7	92
C32.1	Supraglottis, Epiglottis,	0	0	4	18	32	52	28	10	144
C32.9	Larynx	0	0	3	10	25	45	23	13	119
C34.0	Bronchous	0	1	1	0	12	37	26	5	82
C34.9	Lung	0	3	28	88	320	686	544	167	1836
C38.4	Pleura	0	0	3	1	8	12	9	4	37
C40.2	Long bones & articular cartilages of lower limbs	0	2	0	0	0	0	0	0	2
C40.9	Bones & articular cartilages limbs	0	0	0	0	1	0	0	0	1
C41.1	Mandible & Jaw	0	0	0	0	0	3	0	1	4
C41.2	Vertebra & Vertebral column	0	0	1	3	6	9	6	0	25
C41.4	Bones & articular cartilages of pelvic region	0	1	0	0	0	0	0	0	1
C41.9	Bones & articular cartilages	0	0	0	0	0	0	0	1	1
C42.0	Blood	28	19	15	14	9	9	7	0	101
C42.1	Bone marrow	1	3	7	7	8	4	3	1	34
C44.0	Skin of lip	0	0	0	1	0	0	1	0	2
C44.1	Skin of eye lid	0	0	0	0	2	0	0	0	2
C44.3	Skin of Face	0	0	1	0	0	2	1	0	4
C44.9	Skin	0	3	1	2	9	6	7	1	29
C48.1	Omentum, Pouch of Douglas, Cal de sac	0	1	1	0	0	1	0	0	3
C49.0	Connective tissue of scalp/face/neck	1	0	4	1	3	3	2	1	15
C49.1	Connective tissue of UL,arm, forearm,hand,shoulder,thum,wrist	2	1	4	2	1	4	2	2	18
C49.2	Connective tissue of LL,foot,leg,thigh,hip,knee	9	22	10	11	9	9	14	4	88
C49.9	Connective tissue	2	2	1	1	2	2	1	0	11
C50.9	Breast	0	1	2	6	4	10	2	1	26
C60.9	Penis	0	0	1	2	4	3	1	0	11
C61.9	Prostate	0	2	1	1	6	24	40	15	89
C62.9	Testis	2	9	11	13	2	1	1	0	39

C64.9	Kidney	1	1	1	10	14	10	8	4	49
C67.9	Bladder	1	0	5	7	33	45	24	17	132
C69.0	Conjunctiva	0	0	0	0	1	2	3	0	6
C69.4	Eye ball	2	0	0	0	0	0	0	0	2
C69.6	Orbit	0	0	1	1	1	1	1	0	5
C69.9	Eye	11	1	0	1	0	0	0	0	13
C70.0	Cerebral meningis	0	0	0	0	0	0	1	0	1
C70.9	Meninges (NOS)	0	0	0	1	0	0	1	0	2
C71.1	Frontal lobe	0	0	0	0	0	0	1	0	1
C71.9	Brain	6	6	22	13	11	13	8	1	80
C73.9	Thyroid	0	1	4	8	2	12	3	0	30
C75.1	Pituitary gland	0	0	0	1	0	0	0	0	1
C76.0	Cheek, Jaw, Nose	0	1	2	1	4	1	0	2	11
C77.0	LN of Head face & Neck	38	56	54	66	118	186	157	39	714
C77.3	LN of axilla	0	1	0	1	1	3	4	0	10
C77.4	Inguinal region	0	1	0	2	1	1	2	0	7
C77.5	Pelvic LN	0	0	0	0	0	2	0	0	2
C77.9	LN	19	24	22	17	36	41	34	10	203
C80.9	Un known primary site	1	2	3	3	7	5	1	1	23

Female

ICD-O		Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C00	LIP	0	0	0	1	1	3	3	2	10
C02.9	Tongue	0	0	3	8	22	23	9	3	68
C03.9	Gum	0	0	0	1	1	3	2	2	9
C04.9	Floor of the mouth	0	0	0	0	4	2	0	0	6
C05.0	Hard palate	0	1	1	0	0	2	0	0	4
C05.1	Soft palate	0	1	0	1	0	1	0	0	3
C05.2	Uvula	0	0	1	3	1	5	2	1	13
C05.9	Palate	0	0	0	2	3	5	3	2	15
C06.0	Cheek /buccal mucosa	0	0	3	35	63	58	33	15	207
C06.1	Vestibule of mouth	0	0	0	1	0	0	0	0	1
C06.9	Oral cavity/Buccal cavity	0	0	0	4	6	4	3	1	18
C07.9	Parotid Gland	1	2	2	0	5	1	1	0	12
C08.0	Sub mandibular/maxillary gland	1	0	3	8	7	14	3	3	39
C09.0	Tonsillar fossa	0	0	0	0	0	2	1	0	3
C09.9	Tonsil	0	0	0	4	9	7	3	1	24
C10.0	Valecula	0	0	1	0	1	0	1	0	3
C10.4	Branchial cleft	0	0	0	2	2	2	1	0	7
C11.9	Nasopharynx	0	6	1	1	1	1	0	0	10
C12.9	Pyriformsinus/fossa	0	0	2	2	3	4	5	1	17
C13.0	Cricoid	0	0	0	0	0	0	1	0	1
C13.1	Aryepiglotic fold	0	0	0	0	1	0	0	0	1
C14.0	Pharynx	0	0	1	0	0	5	0	0	6
C15.0	Cervical oesophagus	1	2	2	2	7	6	1	0	21
C15.2	Abdominal oesophagus	0	0	0	0	0	1	0	0	1
C15.9	Oesophagus	0	1	6	16	45	67	34	10	179
C16.3	Gastric antrum	0	0	1	1	1	2	2	0	7
C16.9	Stomach	0	7	18	32	33	32	25	2	149
C17.0	Duodenum	0	0	0	0	1	0	1	0	2
C17.2	Ileum	0	0	1	1	2	1	0	0	5
C18.0	Cecum	0	0	1	2	4	3	0	0	10
C18.9	Colon	0	2	17	20	17	11	8	2	77
C20.9	Rectum	1	13	34	26	38	21	9	5	147
C21.0	Anus	0	1	0	0	0	0	0	0	1
C21.1	Anal canal	0	1	2	2	3	2	4	1	15

C22.0	Liver	2	5	12	25	41	50	15	4	154
C22.1	Intra hepatic bile duct	0	1	0	0	2	1	0	0	4
C23.9	Gall bladder	0	0	8	22	49	43	17	4	143
C24.0	Bile duct	0	0	0	0	0	0	1	0	1
C24.1	Ampula of Vater	0	0	0	1	2	0	1	0	4
C25.9	Pancreas	0	2	1	3	10	3	3	0	22
C30.0	Nasal cavity	0	0	0	1	0	1	0	0	2
C30.1	Middle ear, inner ear	0	0	0	1	1	1	1	0	4
C31.0	Maxillary sinuses	0	0	0	2	4	2	2	1	11
C31.1	Ethmoid sinuses	0	0	0	0	0	1	0	0	1
C31.2	Frontal sinuses	1	2	0	1	0	0	0	0	4
C32.0	Glottis, Vocal cord	0	0	0	3	3	2	2	0	10
C32.1	Supraglottis, Epiglottis,	0	0	1	2	4	9	2	0	18
C32.9	Larynx	0	0	1	2	4	2	0	1	10
C34.0	Bronchus	0	0	0	3	0	3	2	0	8
C34.9	Lung	3	5	19	38	86	108	79	21	359
C38.4	Pleura	1	0	5	1	5	3	3	0	18
C40.2	Long bones & articular cartilages of lower limbs	0	0	0	1	0	0	0	0	1
C40.9	Bones & articular cartilages limbs	1	0	0	0	0	0	0	0	1
C41.1	Mandible & Jaw	0	0	1	0	0	0	0	0	1
C41.2	Vertebra & Vertebral column	0	0	1	1	3	4	0	1	10
C42.0	Blood	15	9	5	6	7	4	1	0	47
C42.1	Bone marrow	2	3	7	5	2	3	0	0	22
C44.0	Skin of lip	0	0	0	1	0	1	0	0	2
C44.1	Skin of eye lid	0	0	0	0	1	1	0	0	2
C44.3	Skin of Face	0	1	0	0	0	2	0	0	3
C	Skin of Scalp and neck	0	0	0	0	0	1	0	0	1
C44.9	Skin	0	0	0	5	6	3	3	2	19
C48.1	Omentum, Pouch of Douglas, Cal de sac	0	0	0	1	0	1	0	0	2
C49.0	Connective tissue of scalp/face/neck	2	0	0	0	2	3	2	0	9
C49.1	Connective tissue of UL, arm, forearm, hand, shoulder, thumb, wrist	1	2	1	2	1	1	0	1	9
C49.2	Connective tissue of LL, foot, leg, thigh, hip, knee	10	14	8	10	8	6	5	2	63
C50.0	Breast (Nipple/areola)	0	0	0	1	0	0	0	0	1
C50.9	Breast	1	26	224	523	526	232	76	9	1617
C51.9	Ca vulva	0	0	4	2	11	7	10	2	36
C52.9	Ca vagina	0	2	1	3	7	11	3	4	31
C53.9	Ca cervix	0	3	53	297	572	374	139	24	1462

C55.9	Ca uterus	0	1	8	10	22	29	28	6	104
C56.9	Ca ovary	7	37	73	111	131	81	34	12	486
C57.4	Adenexa	0	0	0	0	1	0	2	0	3
C57.8	Tubo ovarian & Utero ovarian	0	5	5	11	9	4	2	0	36
C64.9	Kidney	3	1	1	6	10	3	0	2	26
C67.9	Bladder	0	0	3	7	7	14	10	0	41
C69.4	Eye ball	2	0	0	0	0	1	0	0	3
C69.6	Orbit	0	0	0	0	1	0	0	0	1
C69.9	Eye	7	0	3	1	0	0	2	0	13
C70.9	Meninges (NOS)	0	0	1	1	2	1	0	0	5
C71.9	Brain	1	7	9	9	11	2	3	0	42
C72.1	Cauda aquina	0	0	1	0	0	0	0	0	1
C73.9	Thyroid	0	13	20	11	20	11	8	0	83
C76.0	Cheek, Jaw, Nose	0	1	1	3	2	2	3	2	14
C77.0	LN of Head face & Neck	15	21	29	51	78	77	35	13	319
C77.3	LN of axilla	1	0	0	4	1	0	1	0	7
C77.4	Inguinal region	0	0	0	1	4	0	0	0	5
C77.5	Pelvic LN	0	2	1	1	2	0	0	0	6
C77.9	LN	9	11	7	13	18	8	6	4	76
C80.9	Un known primary site	0	1	2	3	2	3	2	0	13

Primary site of tumour	Male	Female	Total		Male	Female	Total
Lip	10	10	20	Valecula	6	3	9
Malignant tumour	0	1	1	Sq cell ca	6	3	9
Sq cell ca	8	9	17	Branchial cleft	48	7	55
Adenocarcinoma	2	0	2	Small cell ca	1	1	2
Base of the tongue	3		3	Sq cell ca	39	4	43
Sq cell ca	3		3	Adenoid Sq cell ca	2	1	3
Tongue	150	68	218	Adenocarcinoma	5	1	6
Sq cell ca	150	68	218	Mucoepidermoid ca	1	0	1
Gum	5	9	14	Oropharynx	1		1
Sq cell ca	5	9	14	Sq cell ca	1		1
Floor of the mouth	10	6	16	Nasopharynx	26	10	36
Sq cell ca	10	6	16	Malignant tumour	1	0	1
Hard palate	5	4	9	Sq cell ca	24	10	34
Sq cell ca	5	2	7	Basal cell ca	1	0	1
Adenocarcinoma	0	1	1	Pyrimiformsinus/fossa	91	17	108
Mucoepidermoid ca	0	1	1	Sq cell ca	83	15	98
Soft palate	9	3	12	Adenocarcinoma	7	2	9
Sq cell ca	6	2	8	Mucinous cystadeno ca	1	0	1
Sarcoma	3	0	3	Cricoid		1	1
Fibrosarcoma	0	1	1	Sq cell ca		1	1
Uvula	0	13	13	Aryepiglottic fold	4	1	5
Sq cell ca	0	13	13	Sq cell ca	3	1	4
Palate	12	15	27	Adenoid Sq cell ca	1	0	1
Sq cell ca	11	14	25	Hypopharynx	9		9
Mucoepidermoid ca	1	1	2	Sq cell ca	9		9
Cheek /buccal mucosa	118	207	325	Pharynx	22	6	28
Sq cell ca	116	204	320	Sq cell ca	22	6	28
Basal cell ca	1	1	2	Cervical oesophagus	35	21	56
Adenocarcinoma	1	2	3	Sq cell ca	31	18	49
Vestibule of mouth	3	1	4	Adenocarcinoma	2	2	4
Sq cell ca	3	1	4	Hepatocellular ca	0	1	1
Oral cavity/Buccal cavity	15	18	33	Hodgkin's' Lymphoma	2	0	2
Sq cell ca	15	17	32	Abdominal oesophagus	1	1	2
Adenocarcinoma	0	1	1	Adenocarcinoma	1	1	2
Parotid Gland	22	12	34	Oesophagus	451	179	630
Papillary ca	1	0	1	Small cell ca	0	1	1
Sq cell ca	2	0	2	Sq cell ca	385	163	548
Mucoepidermoid ca	19	12	31	Adenocarcinoma	65	14	79
Sub mandibular/maxillary gland	44	39	83	Duct cell ca	1	1	2
Sq cell ca	39	34	73	Gastric antrum	2	7	9
Adenocarcinoma	5	5	10	Sq cell ca	1	1	2
Tonsillar fossa	9	3	12	Adenocarcinoma	1	6	7
Sq cell ca	9	3	12	Stomach	348	149	497

	Male	Female	Total		Male	Female	Total
Tonsil	69	24	93	Malignant tumour	99	48	147
Sq cell ca	68	24	92	Sq cell ca	13	5	18
Adenocarcinoma	1	0	1	Adenocarcinoma	236	96	332
Duodenum	8	2	10	Head of pancreas	12		12
Sq cell ca	2	0	2	Sq cell ca	1		1
Adenocarcinoma	6	2	8	Adenocarcinoma	11		11
Ileum	3	5	8	Pancreas	27	22	49
Sq cell ca	1	2	3	Sq cell ca	2	1	3
Adenocarcinoma	1	2	3	Adenocarcinoma	25	21	46
Ewing's sarcoma	1	0	1	Nasal cavity	7	2	9
Multiple myeloma	0	1	1	Sq cell ca	6	1	7
Cecum	7	10	17	Adenocarcinoma	1	1	2
Sq cell ca	3	2	5	Middle ear, inner ear	5	4	9
Adenocarcinoma	4	8	12	Sq cell ca	5	4	9
Ascending colon	1		1	Maxillary sinuses	17	11	28
Adenocarcinoma	1		1	Sq cell ca	15	10	25
Hepatic flexure	9		9	Adenocarcinoma	2	1	3
Sq cell ca	8		8	Ethmoid sinuses		1	1
Adenocarcinoma	1		1	Sq cell ca		1	1
Colon	97	77	174	Frontal sinuses	12	4	16
Small cell ca	1	0	1	Sq cell ca	6	2	8
Sq cell ca	7	12	19	Adenocarcinoma	0	1	1
Adenocarcinoma	89	65	154	Glioma	1	0	1
Rectum	197	147	344	Ependymoma	1	0	1
Malignant tumour	1	0	1	Astrocytoma	3	1	4
Sq cell ca	38	23	61	Glioblastoma	1	0	1
Adenocarcinoma	158	124	282	Glottis, Vocal cord	92	10	102
Anus		1	1	Sq cell ca	92	10	102
Adenocarcinoma		1	1	Supraglottis, Epiglottis	144	18	162
Anal canal	20	15	35	Sq cell ca	142	17	159
Sq cell ca	16	10	26	Adenocarcinoma	1	1	2
Adenocarcinoma	4	5	9	Osteosarcoma	1	0	1
Liver	322	154	476	Larynx	119	10	129
Sq cell ca	1	0	1	Sq cell ca	119	8	127
Adenocarcinoma	6	4	10	Adenocarcinoma	0	2	2
Hepatocellular ca	315	150	465	Bronchus	82	8	90
Intra hepatic bile duct	5	4	9	Malignant tumour	1	0	1
Cholangiocarcinoma/Bile duct carcinoma	5	4	9	Small cell ca	1	0	1
Gall bladder	93	143	236	Sq cell ca	78	8	86
Malignant tumour	1	0	1	Adenocarcinoma	2	0	2
Sq cell ca	4	4	8	Lung	1836	359	2195
Adenocarcinoma	87	139	226	Adenoma	1	1	2
Hepatocellular ca	1	0	1	Malignant tumour	16	4	20
Bile duct		1	1	Giant cell type	2	0	2
Cholangiocarcinoma/Bile duct carcinoma		1	1	Large cell ca	3	1	4

	Male	Female	Total		Male	Female	Total
Ampula of Vater	1	4	5	Small cell ca	149	21	170
Sq cell ca	0	1	1	Sq cell ca	1270	190	1460
Adenocarcinoma	1	3	4	Adenocarcinoma	395	141	536
Pleura	37	18	55	Fibrosarcoma	0	1	1
Malignant tumour	1	0	1	Skin of Face	4	3	7
Small cell ca	2	0	2	Small cell ca	0	1	1
Sq cell ca	30	16	46	Sq cell ca	2	1	3
Adenocarcinoma	4	2	6	Basal cell ca	2	1	3
Long bones & articular cartilages of lower limbs	2	1	3	Skin of Scalp and neck		1	1
Ewing's sarcoma	2	1	3	Sq cell ca		1	1
Bones & articular cartilages limbs	1	1	2	Skin	29	19	48
Adenocarcinoma	1	0	1	Sq cell ca	17	9	26
Ewing's sarcoma	0	1	1	Basal cell ca	11	10	21
Mandible & Jaw	4	1	5	Malignant melanoma	1	0	1
Sq cell ca	2	0	2	Omentum, Pouch of douglus, Cal de sac	3	2	5
Sarcoma	1	1	2	Adenocarcinoma	3	2	5
Osteosarcoma	1	0	1	Connective tissue of scalp/face/neck	15	9	24
Vertebra & Vertebral column	25	10	35	Sq cell ca	9	5	14
Sq cell ca	4	5	9	Basal cell ca	2	2	4
Adenocarcinoma	10	3	13	Adenocarcinoma	0	2	2
Osteosarcoma	11	2	13	Sarcoma	2	0	2
Bones & articular cartilages of pelvic region	1		1	Haemngiosarcoma, Angiosarcoma	1	0	1
Ewing's sarcoma	1		1	Neurofibrosarcoma	1	0	1
Bones & articular cartilages	1		1	Connective tissue of UL,arm, forearm,hand,shoulder,thum,wrist	18	9	27
Osteosarcoma	1		1	Malignant tumour	0	1	1
Blood	101	47	148	Spindle cell ca	1	0	1
Leukemia	2	1	3	Sq cell ca	7	3	10
Acute Lymphoblastic Leukemia	63	26	89	Adenocarcinoma	2	0	2
Chronic Lymphocytic Leukemia	1	0	1	Sarcoma	0	2	2
Acute Myeloid/Granulocytic Leukemia	21	19	40	Fibrous histiocytoma	2	1	3
Bone marrow	34	22	56	Osteosarcoma	2	0	2
Multiple myeloma	1	0	1	Chondrosarcoma	0	1	1
Acute Lymphoblastic Leukemia	3	1	4	Ewing's sarcoma	4	1	5
Chronic Lymphocytic Leukemia	0	1	1	Connective tissue of LL,foot,leg,thigh,hip,knee	94	62	156
Acute Myeloid/Granulocytic Leukemia	12	9	21	Malignant tumour	1	1	2
				Spindle cell ca	1	0	1

	Male	Female	Total		Male	Female	Total
Chronic Myeloid/Granulocytic Leukemia	18	11	29	Endometroid carcinoma		14	14
Skin of lip	2	2	4	Krukenberg tumour		5	5
Sq cell ca	0	1	1	Dermoid cyst		3	3
Basal cell ca	2	1	3	Teratoma		3	3
Skin of eye lid	2	2	4	Clear cell carcinoma		2	2
Sq cell ca	1	2	3	Primary peritoneal carcinoma		1	1
Basal cell ca	1	0	1	Undifferentiated		2	2
Osteosarcoma	45	30	75	No HPR		40	40
Chondrosarcoma	1	0	1	Uterus		104	104
Ewing's sarcoma	4	1	5	Adenocarcinoma		67	67
Connective tissue	2		2	Papillary serous carcinoma		11	11
Sq cell ca	1		1	Mixed mullerian tumour		01	01
Retinoblastoma	1		1	Stromal sarcoma		06	06
Breast (Nipple/areola)		1	1	Adenosquamous carcinoma		01	01
Duct cell ca		1	1	Leiomyosarcoma		08	08
Breast	26	1617	1643	Carcinosarcoma		03	03
Sq cell ca	0	1	1	Squamous cell carcinoma		02	02
Adenocarcinoma	0	1	1	Clear cell carcinoma		01	01
Duct cell ca	26	1615	1641	HPR not found		04	04
Vulva		36	36	Penis	11		11
Squamous cell carcinoma		30	30	Sq cell ca	9		9
HPR not found		02	02	Adenocarcinoma	2		2
Basal Cell Carcinoma		03	03	Prostate	89		89
Sarcoma		01	01	Sq cell ca	7		7
Vagina		31	31	Adenocarcinoma	82		82
Squamous cell carcinoma		26	26	Testis	41		41
Leiomyosarcoma		1	1	Sq cell ca	1		1
Adenocarcinoma		2	2	Rhabdomyosarcoma	1		1
Embryonal Rhabdomyosarcoma		1	1	Seminoma	38		38
Small Cell Carcinoma		1	1	Germ cell tumour	1		1
Cervix		1462	1462	Kidney	49	26	75
Squamous cell carcinoma		1225	1225	Transitional cell ca	1	0	1
Adenocarcinoma		91	91	Renal cell ca	48	25	73
Others		05	05	Nephroblastoma	0	1	1
No HPR		141	141	Bladder	132	41	173
Ovary		486	486	Sq cell ca	5	0	5
Adenocarcinoma		56		Transitional cell ca	125	41	166
Papillary serous carcinoma		290		Adenocarcinoma	2	0	2
Mucinous carcinoma		45		Conjunctiva	6		6
Dysgerminoma		6		Sq cell ca	4		4
Germ cell tumour		19		Malignant melanoma	2		2
	Male	Female	Total		Male	Female	Total
Eye ball	2	3	5	Fibrosarcoma	9	4	13

Rhabdomyosarcoma	0	1	1	Fibrous histiocytoma	3	1	4
Retinoblastoma	2	2	4	Rhabdomyosarcoma	0	1	1
Orbit	5	1	6	Seminoma	1	0	1
Sq cell ca	4	1	5	kaposi's sarcoma	1	0	1
Sarcoma	1	0	1	Osteosarcoma	1	0	1
Eye	13	13	26	Ewing's sarcoma	22	8	30
Retinoblastoma	13	13	26	NHL	2	1	3
Cerebral meninges	1		1	Hodgkins' Lymphoma	68	20	88
Sq cell ca	1		1	LN of axilla	10	7	17
Meninges (NOS)	2	5	7	Sq cell ca	9	7	16
Meningioma	2	5	7	Adenocarcinoma	1	0	1
Frontal lobe	1		1	Inguinal region	7	5	12
Sq cell ca	1		1	Sq cell ca	5	4	9
Brain	80	42	122	Adenocarcinoma	2	1	3
Sq cell ca	1	0	1	Pelvic LN	2	6	8
Glioma	8	6	14	Sq cell ca	2	2	4
				Adenocarcinoma	0	3	3
Astrocytoma	58	34	92	Ewing's sarcoma	0	1	1
Glioblastoma	7	2	9	LN	203	76	279
Medulloblastoma	3	0	3	Small cell ca	0	1	1
Neuroblastoma	3	0	3	Sq cell ca	1	0	1
da Aquinas		1	1	NHL	200	72	272
Chronic Myeloid/Granulocytic Leukemia		1	1	Hodgkin's' Lymphoma	2	3	5
Thyroid	30	83	113	Un known primary site	23	13	36
Papillary ca	28	82	110	Sq cell ca	21	8	29
Sq cell ca	2	0	2	Adenocarcinoma	2	5	7
Adenocarcinoma	0	1	1				
Pituitary gland	1		1				
Adenoma	1		1				
Cheek, Jaw, Nose	11	14	25				
Sq cell ca	9	10	19				
Basal cell ca	0	3	3				
Adenocarcinoma	1	0	1				
Cholangiocarcinoma/Bile duct carcinoma	1	0	1				
Adeno cystic ca	0	1	1				
LN of Head face & Neck	714	319	1033				
Malignant tumour	5	5	10				
Giant cell type	2	1	3				
Giant cell ca	0	1	1				
Spindle cell ca	3	1	4				
Small cell ca	11	1	12				
Sq cell ca	470	191	661				
Adenocarcinoma	116	84	200				

Cancer Registry Report 2019

Summary

Hospital based registry started officially from January 01, 2005 at the National Institute of Cancer Research & Hospital (NICRH), Mohakhali, Dhaka. Already five full reports (for 2005, 2005-2007, 2008-2010, 2014 & 2015-2017) and one draft report (for 2011-2013) have been published. In addition, the cancer registry report for the year 2014, 2015-2017 being published online and available at the NICRH website (nicrh.gov.bd/reports). This is the cancer registry report for the year 2019. In 2019, 29181 patients attended the Out Patient Department (OPD) of NICRH. Of them we could include 12807 (43.9%) new patients who managed to produce either confirmed or provisional diagnosis of some sorts of cancer at the time of interview. The rest were excluded as they had no medical records with them at the time of data collection. Many of them eventually diagnosed as cancer patients for sure but we missed them in this report.

Demography:

Majorities (7086, 55.3) of the patients were male and the rest 5721 (44.7%) patients were female giving rise to a male female ratio of 1.2:1. Mean age of the patients was 51.39 years with SD± 15.7 which ranged from 1 to 102 years. Among the all patients 94.4% (12090) were Muslims & 92.5% (11852) were married. A huge number of patients (36.1%, 4622) were illiterate & about 46.3% patients (5932) had attained primary level education. Agricultural activities were main profession of men (34%, 4349) while almost all the female (5353/5721) were housewives.

System wise distribution:

Cancer of the digestive organs (2903, 22.7%) occupied the top two position followed by cancer of the respiratory system and intrathoracic organ (2838, 22.2%), breast cancer (1670, 13%), lymph node cancer (1427, 11.1%), lip oral cavity and pharynx cancer (1338, 10.4%) and female genital organ cancer (1009*, 7.9 %) (Table: 1).

Leading sites:

Lung was the main leading site of cancers in both sexes (2320, 18.1%). Breast came up with 2nd position (16663, 13%). Cervix (721, 5.6%), oesophagus (615, 4.8%), stomach (578, 4.5%), lymphoma (541, 4.2%), liver (478, 3.7), cheek/buccal mucosa (384, 3%), rectum (363, 2.8) and gall bladder (287, 2.2%) occupied the successive places.

Lung cancers occupied the first place in male patients (1929, 27.2%). Oesophagus (440, 6.2%), lymphoma (386, 5.4%), stomach (373, 5.3%), liver (319, 4.5%), rectum (206, 2.9%), blood (153, 2.2%), cheek/buccal mucosa (151, 2.1%), bladder (147, 2.1%) and colon (136, 1.9%) came next in that order.

Among female carcinoma of the breast lead the tally (1650, 28.8%) followed by carcinoma of cervix (716, 12.5%), lung (391, 6.8%), cheek/buccal mucosa (233, 4.1%), stomach (205, 3.6%), oesophagus (175, 3.1%), gall bladder (170, 3%), liver (159, 2.8%), lymphoma (158, 2.8%) and rectum (157, 2.7%).

According to the data provided by the department of Gynecological Oncology there were 2390 patients suffering from female genital tract organs in 2019.

Residential status:

Majority of the patients attended OPD of NICRH were from Dhaka division (4242, 33.1%) and next from Chattogram division (2751, 21.5%). The other divisional representations were as follows: Mymensingh (1470, 11.5%), Barishal (1460, 11.4%), Khulna (1187, 9.3%), Rajshahi (799, 6.2%), Rangpur (578, 4.5%) and Sylhet (320, 2.5%).

Smoking habit:

About seventy-five percent (5307) male cancer patients were ever smoker and 26.9% (1907) were current smoker. Only 0.8% (47) female patients were ever smoker. More than 63% males (n=4492) were habituated with chewing tobacco. Among female this percentage was 53.4 (n=3053).

Method of diagnosis:

A total number of 9919 (77.4%) patients came to this hospital with confirmed histopathological diagnosis, 2344 (18.3%) patients had cytopathological diagnosis. About 3% patients (n=369) reported suspected diagnosis based on radiological evidences and 175 (1.4%) patients were only clinically diagnosed as cancer patients at the time of registration.

Paediatric cancer:

The patient of 0-18 years is considered as paediatric group. A total of 436 (3.4%) paediatric patients were included in this report although the actual number might be much higher. Of them 277 (63.5%) were male paediatric patients & 159 (36.5%) were female. Blood cancer topped the list (101, 23.2%) followed by lymph node cancer, cancer of connective tissue (62, 14.2%), cancer of the bones & articular cartilages (19, 4.4%), brain cancer (18, 4.1%) and eye cancer (15, 3.4%).

Geriatric cancer:

Patients of 65 years and above were considered as geriatric patients. About 23.4% (2997) of all cancer patients were from this age group. Most of them i.e., 2243 were male (75%) and the remaining 25 % (754) were female. Lung (917, 30.6%) was the leading cancer in this age group followed by oesophageal cancer (226, 7.5%), stomach cancer (146, 4.9%), liver (121, 4.0%) and lymphoma (107, 3.6%).

Treatment received before attending NICRH:

Most of the patients (82%, 10504) did not receive any kind of cancer treatment before attending NICRH, only 18% (2303) got some treatment before.

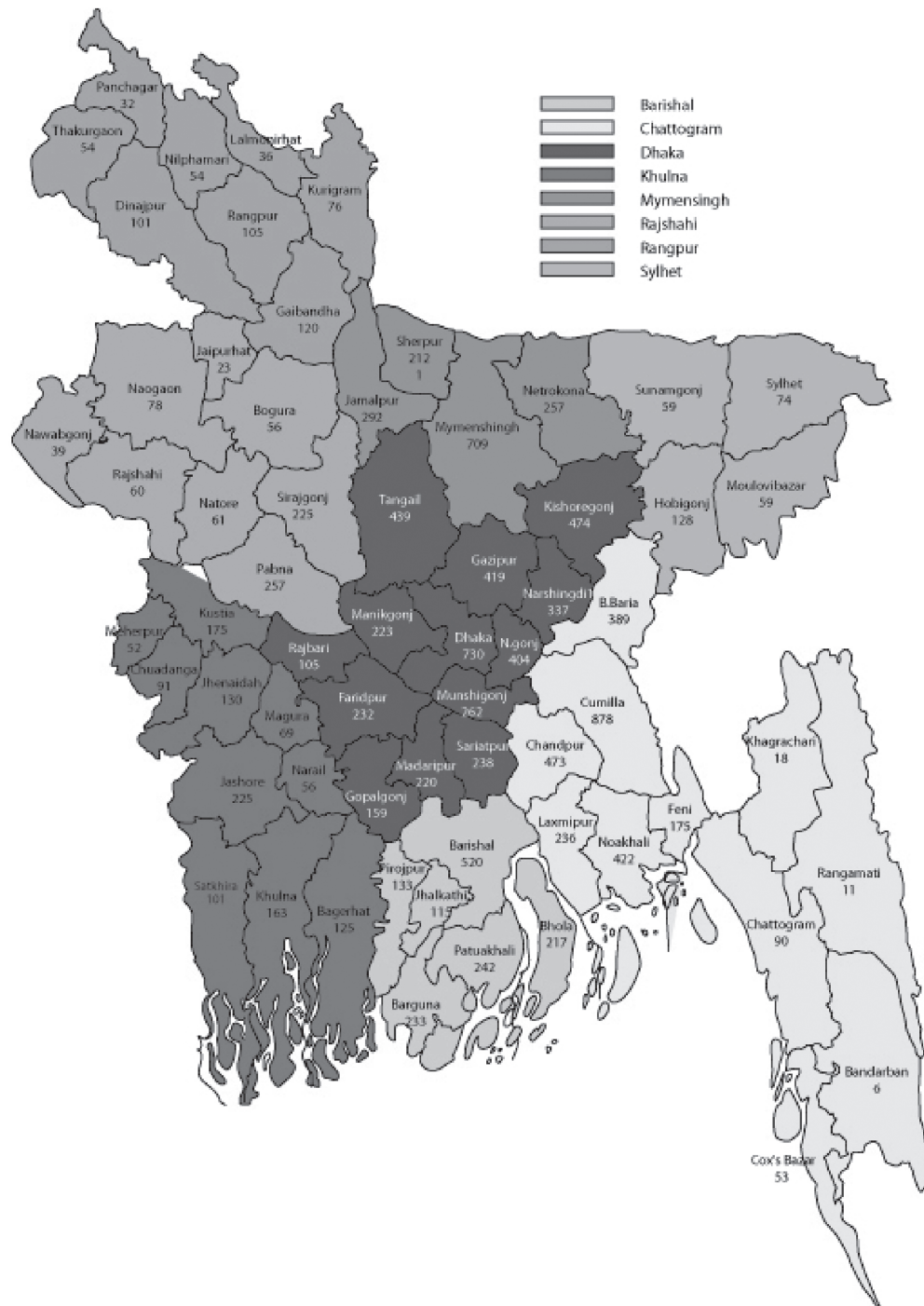


Fig: 1 Map diagram showing the distribution of the patients (2019)

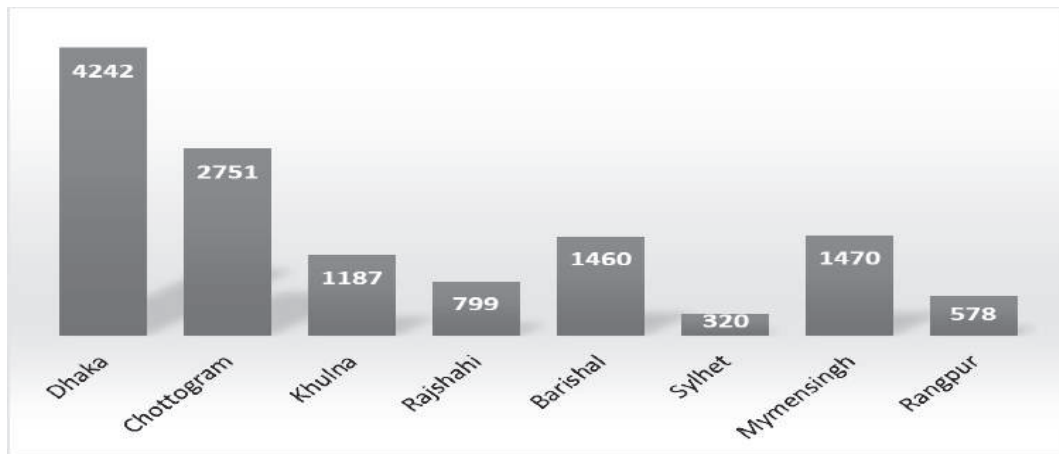


Fig: 2 Distribution of the patients by division

System wise pattern:

ICD-O	Primary site	Frequency	Percent
C00-C14	Lip, oral cavity and pharynx	1338	10.4
C15-C26	Digestive organs	2903	22.7
C30-C39	Respiratory system and intrathoracic organs	2838	22.2
C40-C41	Bones, joints and articular cartilages	138	1.1
C42	Hemopoietic and reticuloendothelial systems	292	2.3
C44	Skin	58	0.5
C48	Retroperitoneum and peritoneum	09	0.1
C49	Connective, subcutaneous and other soft tissues	229	1.8
C50	Breast	1670	13
C51-C58	Female genital organs	1009*	7.9
C60-C63	Male genital organs	183	1.4
C64-C68	Urinary tract	307	2.4
C69-C72	Eye, brain and other parts of the CNS	175	1.4
C73-C75	Thyroid and other endocrine glands	113	0.9
C76	Other and ill defined sites	21	0.2
C77	Lymph nodes	1427	11.1
C80	Unknown primary site	97	0.8
	Total	12807	100

* According to the data provided by the department of Gynecological Oncology there were 2390 patients suffering from female genital tract organs in 2019.

B. Demography:

Variables	Male (%) (n=7110)	Female (%) (n=5697)	Total (%) (n=12807)
<i>Religion</i>			
Islam	6726 (94.6)	5364 (94.2)	12090 (94.4)
Hinduism	376 (5.5)	315 (5.5)	691 (5.4)
Buddhism	4 (0.1)	13 (0.2)	17 (0.1)
Christianity	4 (0.1)	5 (0.1)	9 (0.1)
<i>Marital status</i>			
Never married	398 (5.6)	198 (3.5)	596 (4.7)
Married	6709 (94.3)	5143 (90.2)	11852 (92.5)
Widowed	3 (0.0)	325 (5.7)	328 (2.6)
Divorced	0 (0.0)	31 (0.5)	31 (0.2)
<i>Education</i>			
Not applicable	72 (1.0)	49 (0.9)	121 (0.9)
Illiterate	2283 (32.1)	2339 (41.1)	4622 (36.1)
Primary	3409 (47.9)	2523 (44.3)	5932 (46.3)
Secondary	654 (9.2)	416 (7.3)	1070 (8.4)
Higher secondary	348 (4.9)	186 (3.3)	534 (4.2)
Graduate & above	344 (4.8)	184 (3.2)	528 (4.1)
<i>Occupation</i>			
Not applicable	74 (1.0)	53 (0.9)	127 (1.0)
Service	810 (11.4)	105 (1.8)	915 (7.1)
Business	886 (12.5)	8 (0.1)	894 (7.0)
Agriculture	4325 (60.8)	24 (0.4)	4349 (34.0)
Day labourer	308 (4.3)	7 (0.1)	315 (2.5)
House wife	-	5353 (93.9)	5353 (41.8)
Retired/ aged	249 (3.5)	25 (0.4)	274 (2.1)
Industrial worker	80 (1.1)	2 (0.0)	82 (0.6)
Student	255 (3.6)	139 (2.4)	394 (3.1)
Others	98 (1.4)	6 (0.1)	104 (0.8)

C. Leading sites of cancer:**Table: Top 10 malignancies (2019)**

Sl. No.	Site	Number	Percentage
1	Lung	2320	18.1
2	Breast	1666	13.0
3	Cervix	1591*	12.4
4	Oesophagus	615	4.8
5	Stomach	578	4.5
6	Lymphoma	541	4.2
7	Liver	478	3.7
8	Cheek /buccal mucosa	384	3.0
9	Rectum	363	2.8
10	Gall bladder	287	2.2

*Data source: Department of Gynaecological Oncology

Table: Top 10 cancers in male (2019)

Sl. no.	Site	Number	Percentage
1	Lung	1929	27.2
2	Oesophagus	440	6.2
3	Lymphoma	386	5.4
4	Stomach	373	5.3
5	Liver	319	4.5
6	Rectum	206	2.9
7	Blood	153	2.2
8	Cheek /buccal mucosa	151	2.1
9	Bladder	147	2.1
10	Colon	136	1.9

Table: Top 10 cancers in female (2019)

Sl. no.	Site	Number	Percentage
1	Breast	1650	28.8
2	Cervix	1591*	27.8
3	Lung	391	6.8
4	Cheek /buccal mucosa	233	4.1
5	Stomach	205	3.6
6	Oesophagus	175	3.1
7	Gall bladder	170	3.0
8	Liver	159	2.8
9	Lymphoma	158	2.8
10	Rectum	157	2.7

D. Special age group cancer:

Pediatrics cancer (0-18 years)

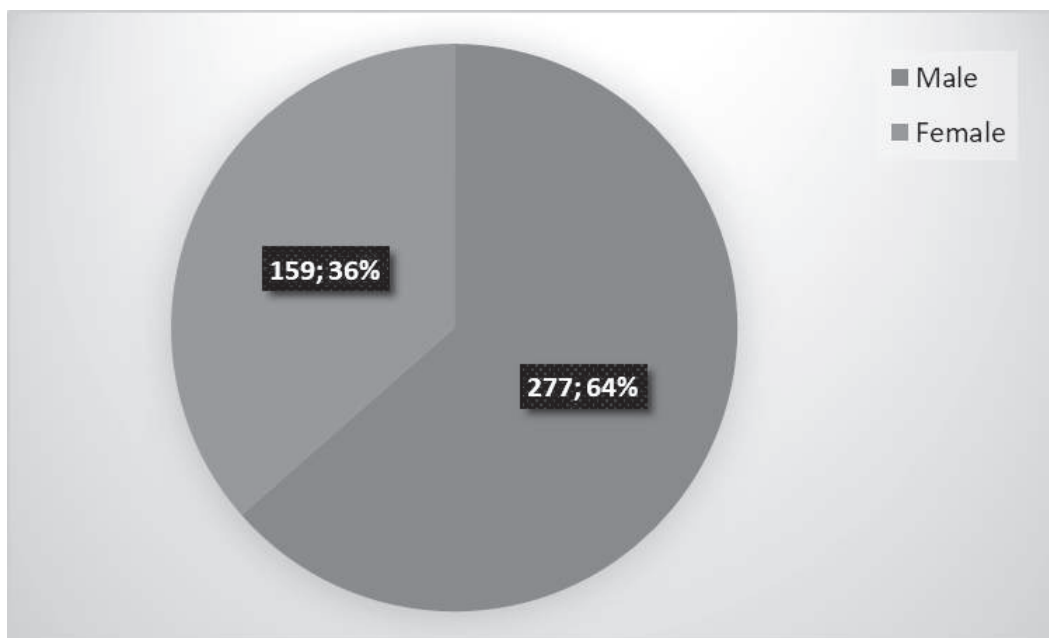


Fig: Paediatric cancers (n=436)

Table: Site of pediatrics cancer (N=436)

Sl. No.	Site of cancer	Frequency	Percent
1.	Blood	101	23.2
2.	Lymphode	63	14.4
3.	Connective tissue	62	14.2
4.	Bones & articular cartilages	19	4.4
5.	Brain	18	4.1
6.	Eye	15	3.4
7.	Kidney	11	2.5
8.	Liver	8	1.8
9.	Testis	8	1.8
10.	Lung	7	1.6

Table: Morphology of paediatric cancer (n=436)

Sl. No.	Morphology	Frequency	Percent
1.	Leukemia	105	24.1
2.	Sq cell ca	68	15.6
3.	Lymphoma	63	14.4
4.	Osteosarcoma	43	9.9
5.	Ewing's sarcoma	33	7.6
6.	Adenocarcinoma	22	5.0
7.	Retinoblastoma	16	3.7
8.	Renal cell ca	11	2.5
9.	Astrocytoma	10	2.3
10.	Hepatocellular ca	9	2.1

Geriatric cancer (≥65 years)

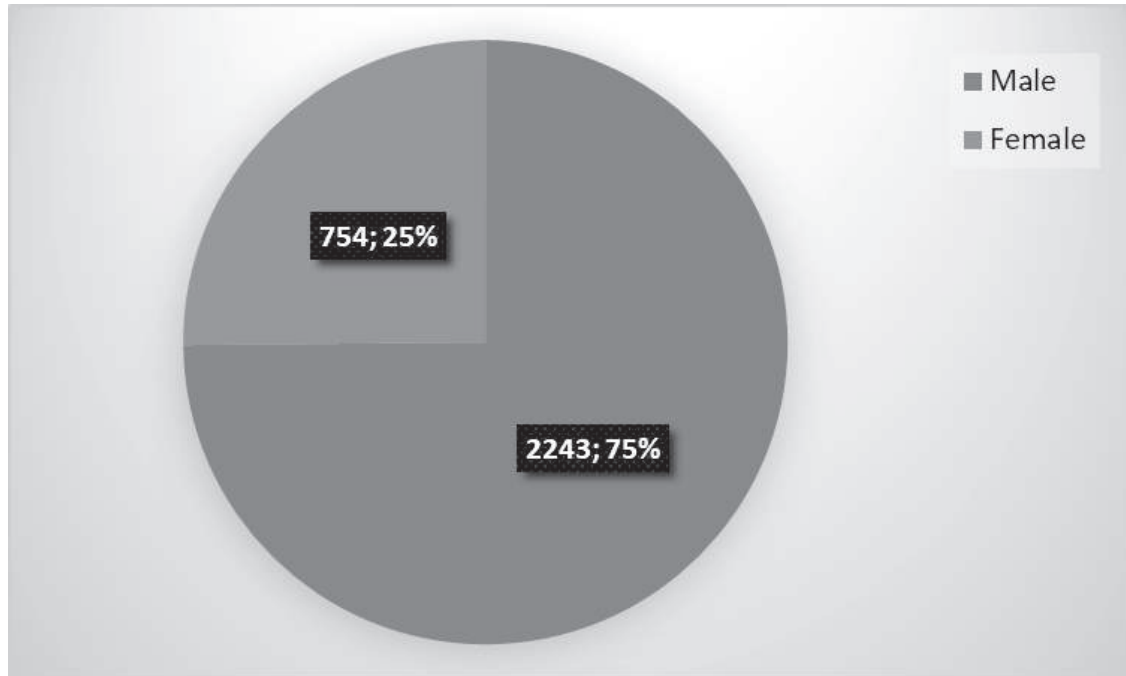


Fig: Sex distribution of the geriatric patients (n=2997)

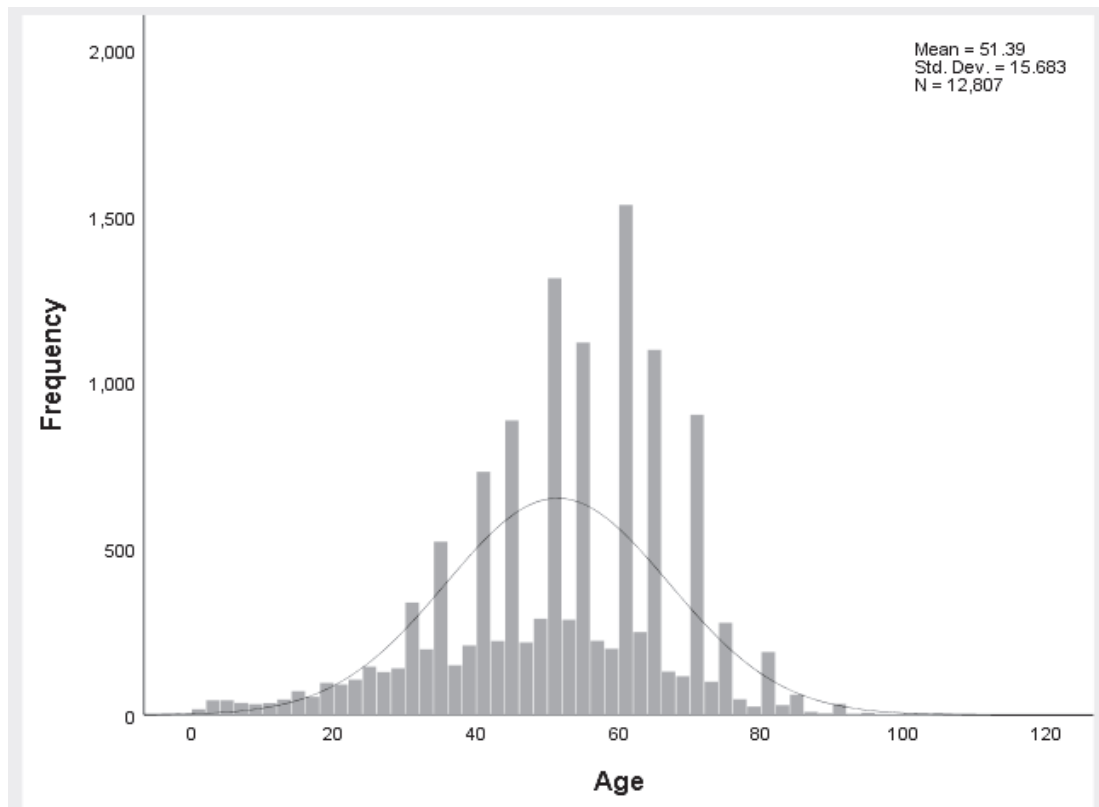
Table: Primary site of geriatric cancers (n=2997)

Sl. No.	Primary site of cancer	Frequency	Percent
1.	Lung	917	30.6
2.	Oesophagus	226	7.5
3.	Stomach	146	4.9
4.	Liver	121	4.0
5.	Lymphoma	107	3.6
6.	Cheek /buccal mucosa	99	3.3
7.	Breast	93	3.1
8.	Cervix	78	2.6
9.	Prostate	74	2.5
10.	Gall bladder	64	2.1

Table: Morphology of geriatric cancer (n=2997)

Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	1698	56.7
2.	Adenocarcinoma	685	22.9
3.	Hepatocellular ca	119	4.0
4.	Lymphoma	107	3.6
5.	Duct cell ca	94	3.1
6.	Small cell ca	70	2.3
7.	Transitional cell ca	64	2.1
8.	Renal cell ca	18	0.6
9.	Leukemia	14	0.5
10.	Papillary ca	12	0.4

All sites:



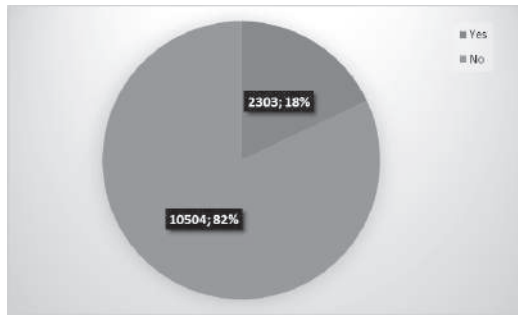


Fig: Received treatment outside NICRH

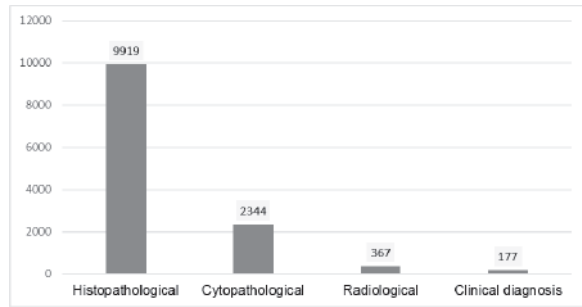


Fig: Method of diagnosis

F. Head & neck cancer

Primary site	Gender		Total
	Male	Female	
LIP	11 (1.0)	5 (0.8)	16 (0.9)
Base of the tongue	3 (0.3)	0 (0.0)	3 (0.2)
Tongue	134 (11.9)	95 (15.4)	229 (13.1)
Gum	5 (0.4)	8 (1.3)	13 (0.7)
Floor of the mouth	15 (1.3)	8 (1.3)	23 (1.3)
Hard palate	4 (0.4)	4 (0.7)	8 (0.5)
Soft palate	4 (0.4)	2 (0.3)	6 (0.3)
Uvula	0 (0.0)	16 (2.6)	16 (0.9)
Palate	21 (1.9)	15 (2.4)	36 (2.1)
Cheek /buccal mucosa	151 (13.4)	233 (37.9)	384 (22.0)
Vestibule of mouth	0 (0.0)	1 (0.2)	1 (0.1)
Oral cavity/Buccal cavity	14 (1.2)	28 (4.6)	42 (2.4)
Parotid Gland	31 (2.8)	12 (2.0)	43 (2.5)
Sub mandibular/maxillary gland	50 (4.4)	56 (9.1)	106 (6.1)
Tonsillar fossa	9 (0.8)	3 (0.5)	12 (0.7)
Tonsil	63 (5.6)	15 (2.4)	78 (4.5)
Vallecula	8 (0.7)	2 (0.3)	10 (0.6)
Branchial cleft	73 (6.5)	10 (1.6)	83 (4.8)
Oropharynx	5 (0.4)	0 (0.0)	5 (0.3)
Nasopharynx	23 (2.0)	11 (1.8)	34 (2.0)
Pyriiform sinus/fossa	107 (9.5)	25 (4.1)	132 (7.6)
Cricoid	4 (0.4)	3 (0.5)	7 (0.4)
Aryepiglottic fold	16 (1.4)	1 (0.2)	17 (1.0)
Hypopharynx	9 (0.8)	0 (0.0)	9 (0.5)
Pharynx	18 (1.6)	6 (1.0)	24 (1.4)
Laryngopharynx	1 (0.1)	0 (0.0)	1 (0.1)
Nasal cavity	6 (0.5)	6 (1.0)	12 (0.7)
Maxillary sinuses	14 (1.2)	11 (1.8)	25 (1.4)
Frontal sinuses	9 (0.8)	4 (0.7)	13 (0.7)
Accessory sinuses	2 (0.2)	0 (0.0)	2 (0.1)
Glottis, Vocal cord	91 (8.1)	4 (0.7)	95 (5.5)
Supraglottis, Epiglottis,	128 (11.4)	20 (3.3)	148 (8.5)
Larynx	98 (8.7)	11 (1.8)	109 (6.3)
Total	1127 (100.0)	615 (100.0)	1742 (100.0)

Percentages are given in the parenthesis

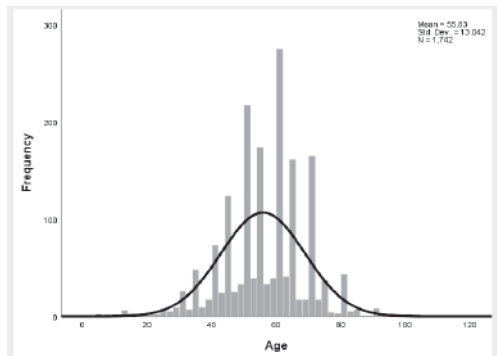


Fig: Age distribution of H & N cancers

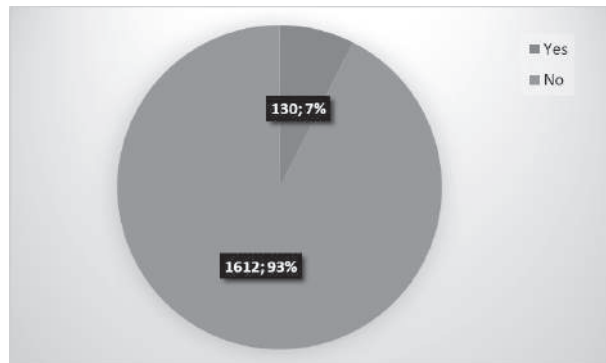


Fig: Case referral (H&N cancers)

G. Respiratory System

Primary site of tumour	Sex		Total
	Male	Female	
Bronchus	53 (2.6)	6 (1.5)	59 (2.4)
Lung	1929 (95.8)	392 (95.1)	2321 (95.7)
Pleura	33 (1.)	14 (3.4)	47 (1.9)
Total	2015 (100.0)	412 (100.0)	2527 (100.0)

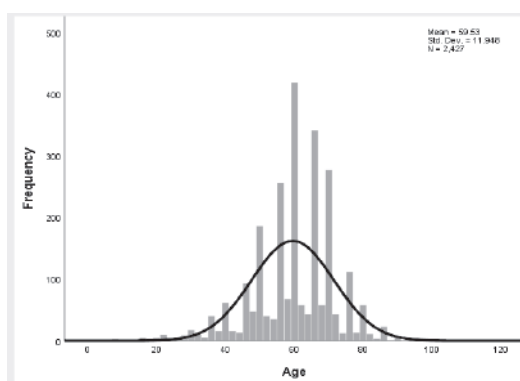


Fig: Age distribution of respiratory cancers

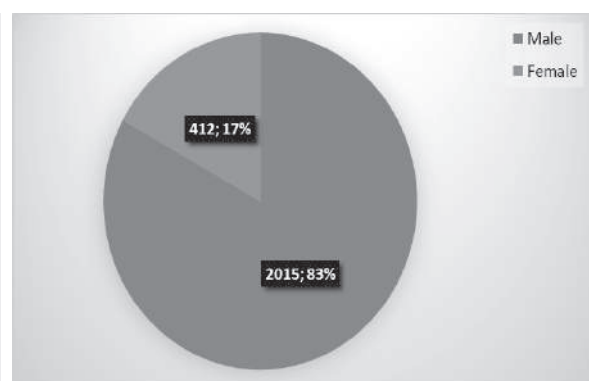


Fig: Gender distribution of respiratory cancers

H. Lung cancer:

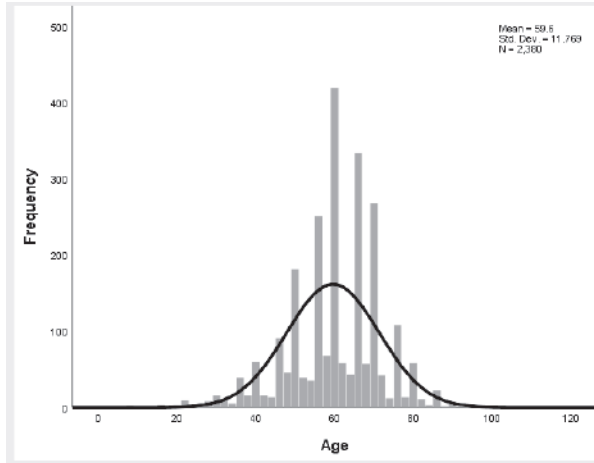


Figure: Age group distribution of lung cancer patients

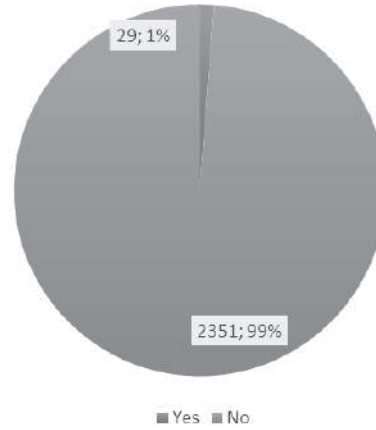


Fig: Case Referral (lung cancer)

Male 2015 (83.0%), female 412 (17%) male female ratio 4.9:1.
 Mean age 59.6 year, SD±11.77 years.

Table: Morphology of lung cancer (N=2380)

Morphology	Frequency	Percent
Sq cell ca	1556	65.4
Adenocarcinoma	657	27.6
Small cell ca	153	6.4
Other types	14	0.6
Total	2380	100.0

I. Breast cancer:

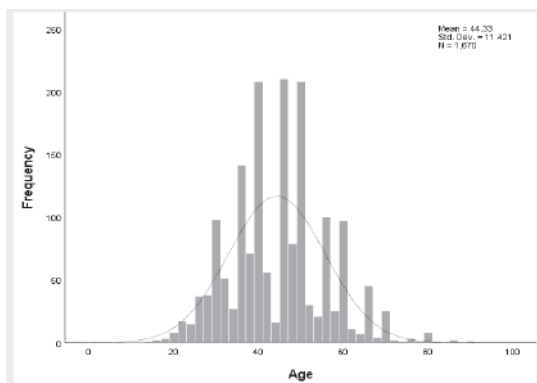


Fig: Age group distribution of breast cancer patients

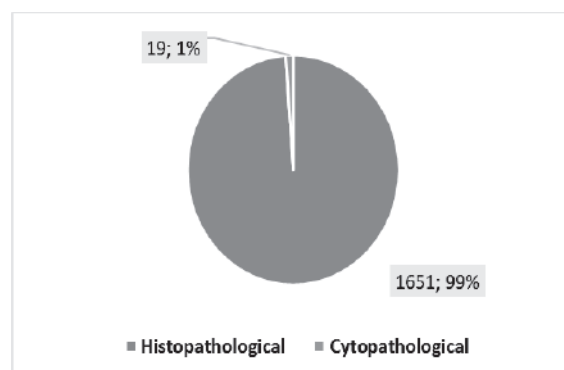


Fig: Diagnostic status (n=1670)

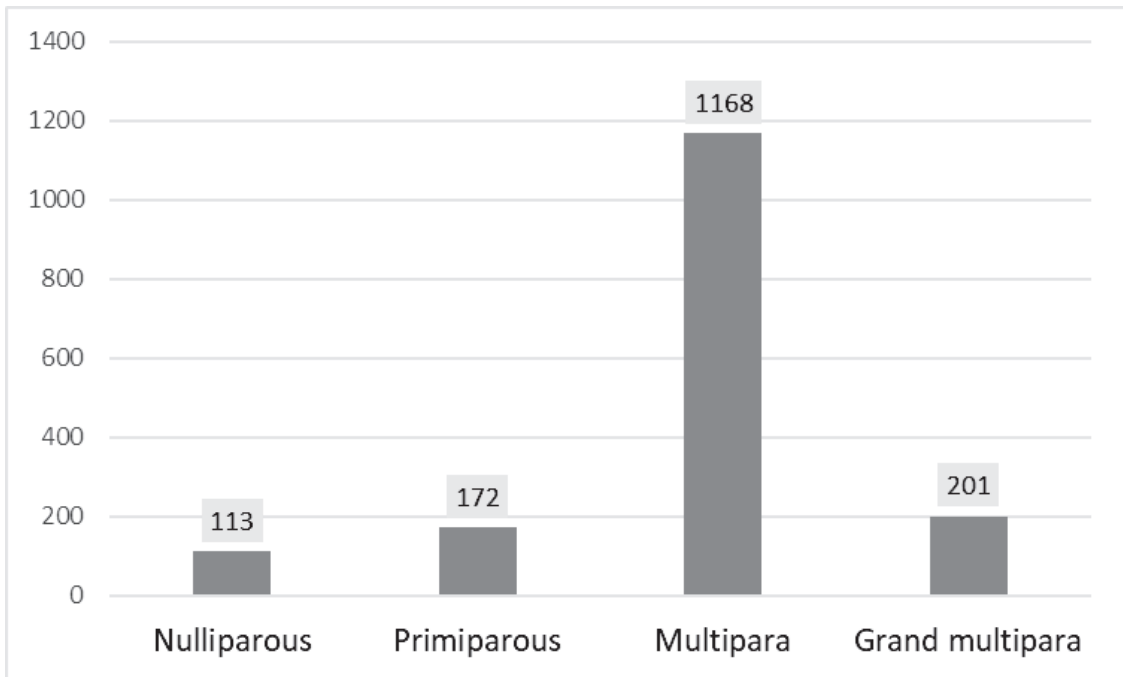
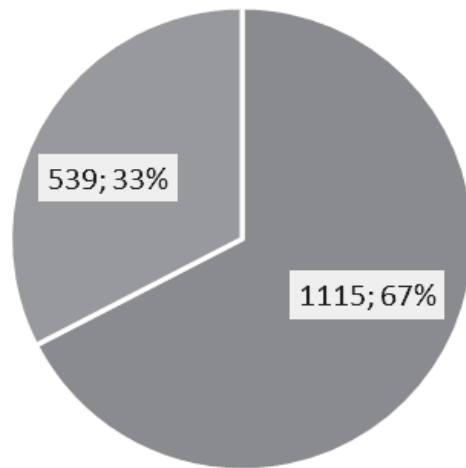


Fig: Parity and breast cancer (n=1654)



■ Prior Tx ■ No

Fig: Case referral (Breast cancer)

J. GIT

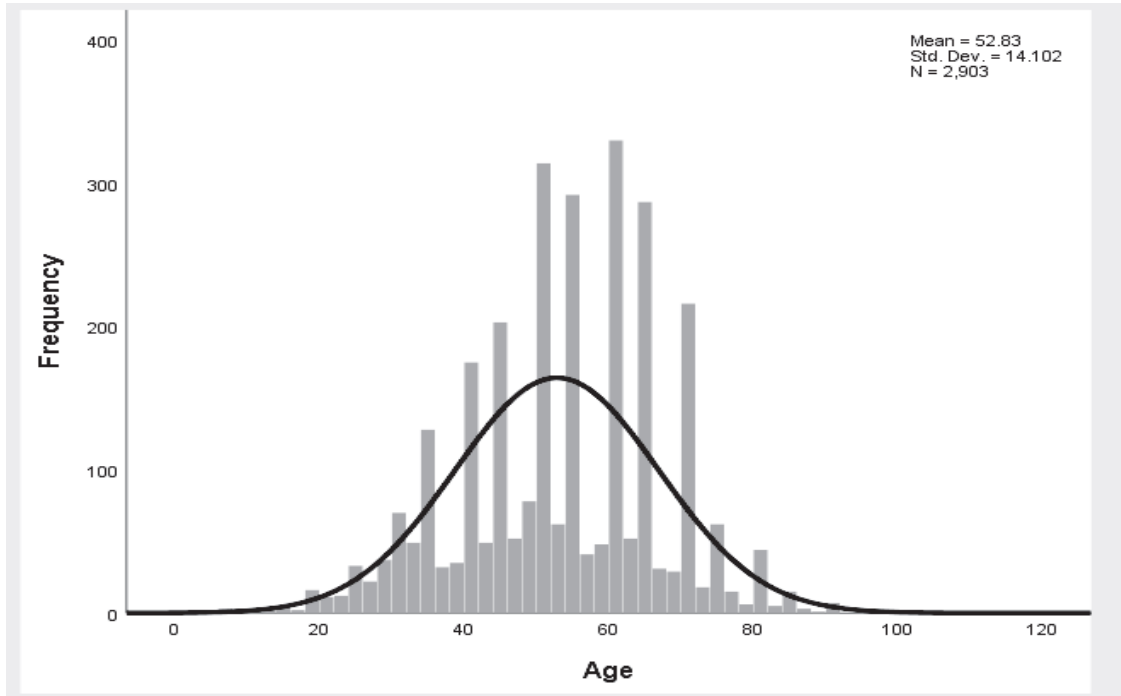


Fig: Age group distribution (GIT)
Mean age 52.83 years, SD± 14.10 years, M: F= 1.7:1.

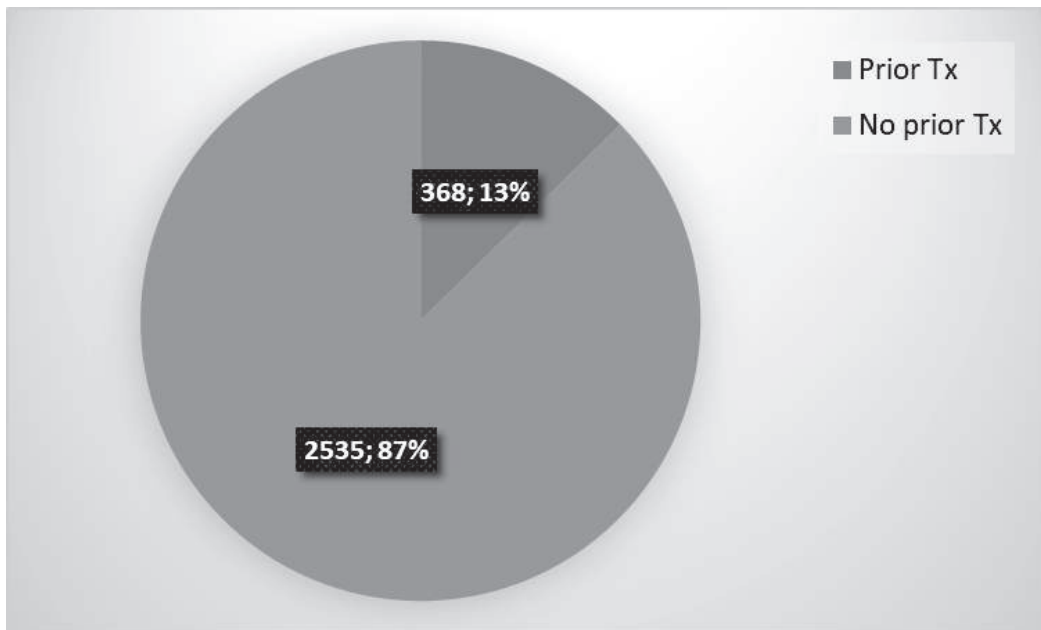
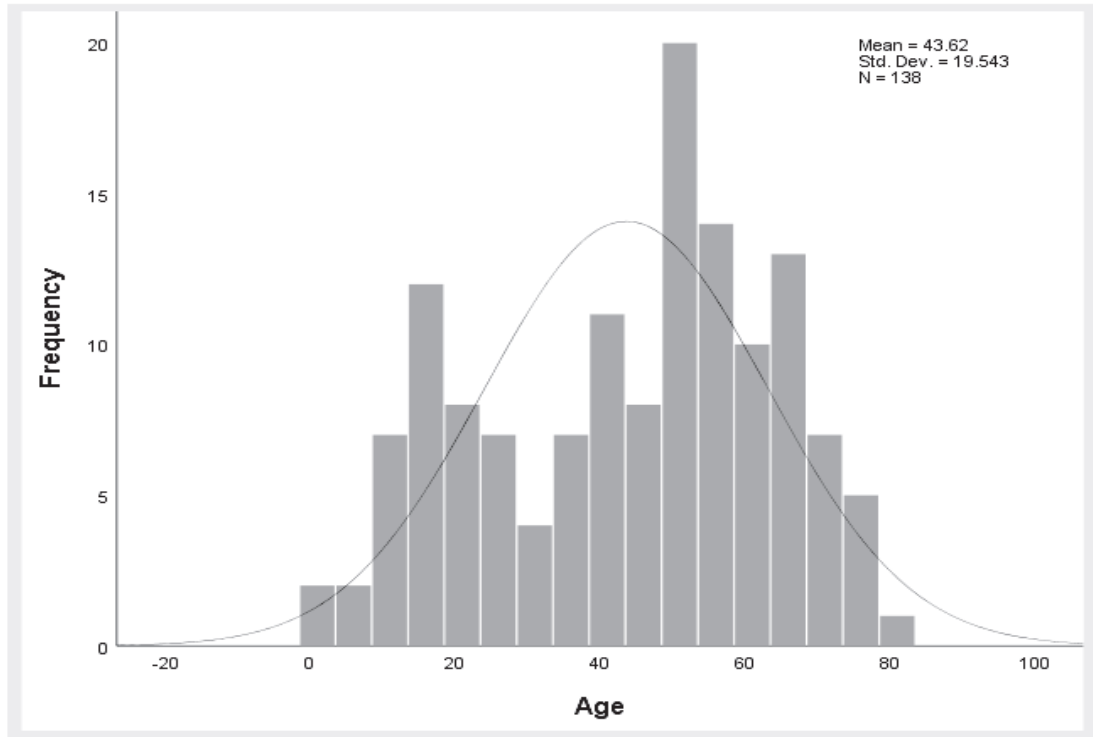


Fig: Case referral (GIT)

Primary site of GI cancer

Primary site of tumour	Sex		Total
	Male	Female	
Cervical oesophagus	76 (4.1)	45 (4.2)	121 (4.2)
Oesophagus	440 (24.0)	175 (16.3)	615 (21.2)
Gastric antrum	16 (0.9)	12 (1.1)	28 (1.0)
Stomach	373 (20.4)	205 (19.1)	578 (19.9)
Duodenum	14 (0.8)	3 (0.3)	17 (0.6)
Ileum	8 (0.4)	4 (0.4)	12 (0.4)
Cecum	24 (1.3)	6 (0.6)	30 (1.0)
Ascending colon	0 (0.0)	1 (0.1)	1 (0.0)
Hepatic flexure	16 (0.9)	5 (0.5)	21 (0.7)
Sigmoid colon	2 (0.1)	1 (0.1)	3 (0.1)
Colon	136 (7.4)	83 (7.7)	219 (7.5)
Rectum	206 (11.2)	157 (14.7)	363 (12.5)
Anal canal	25 (1.4)	9 (0.8)	34 (1.2)
Liver	319 (17.4)	159 (14.8)	478 (16.5)
Gall bladder	117 (6.4)	170 (15.9)	287 (9.9)
Bile duct	11 (0.6)	6 (0.6)	17 (0.6)
Ampulla of Vater	3 (0.2)	1 (0.1)	4 (0.1)
Head of pancreas	4 (0.2)	4 (0.4)	8 (0.3)
Pancreas	42 (2.3)	25 (2.3)	67 (2.3)
Total	1832 (100.0)	1071 (100.0)	2903 (100.0)

Bone



Fig; Age distribution
Mean age 43.62 years, SD \pm 19.543 years, M: F= 2.3: 1

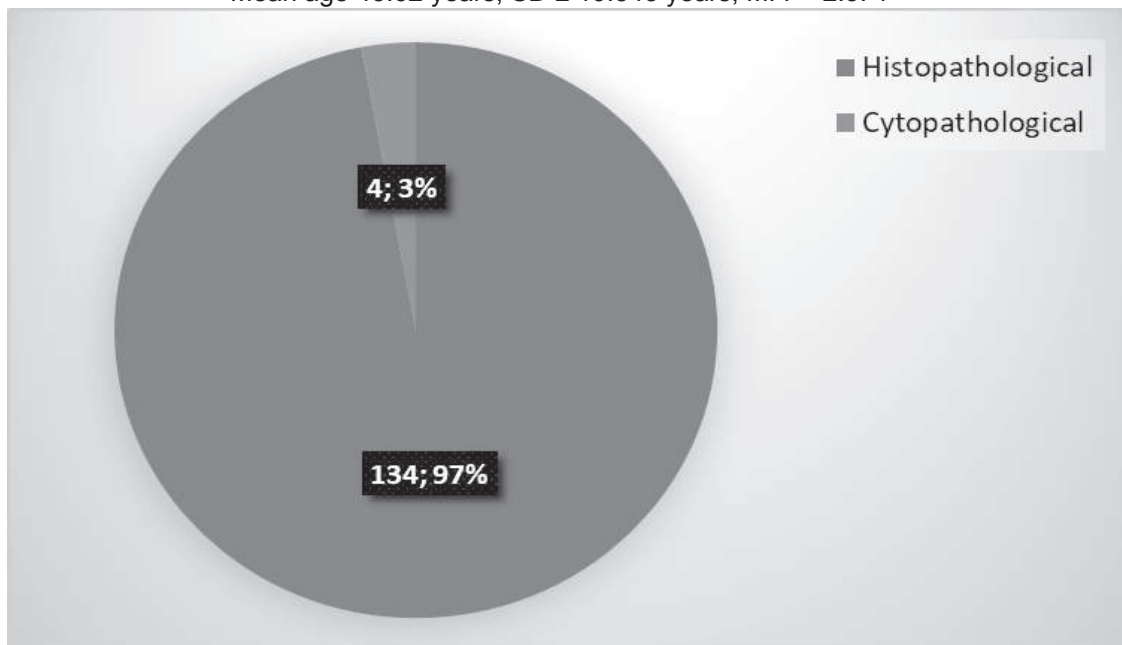


Fig: Diagnostic status (Bone cancer)

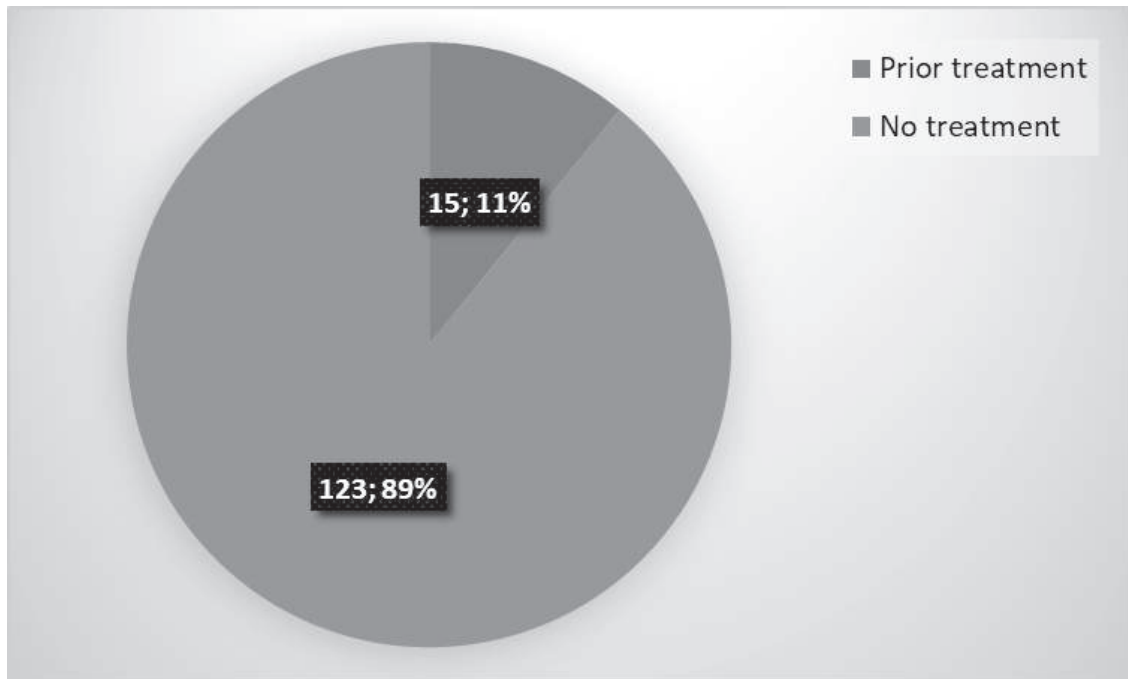


Fig: Case referral (Bone cancer)

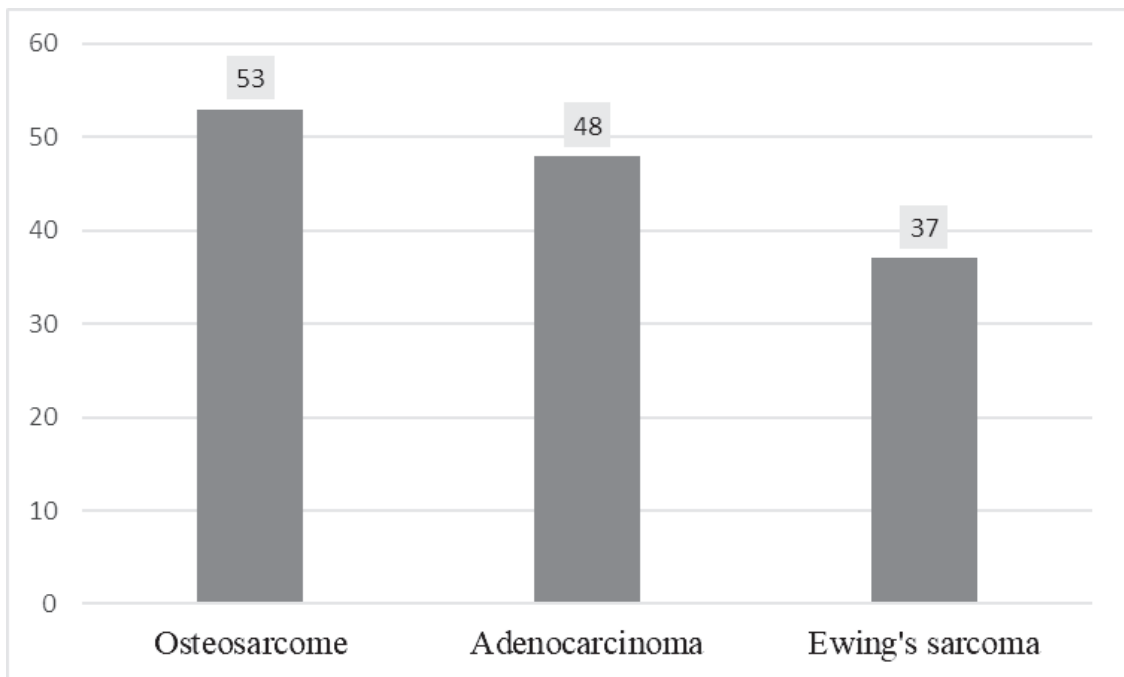


Fig: Histological pattern (Bone Cancer)

L. Female genital organs

Site of cancer	<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	Total
Ca vulva	0	1	4	5	9	22	10	4	55
Ca vagina	0	1	4	5	13	3	1	0	27
Ca cervix	0	3	71	355	569	392	168	33	1591
Ca uterus	0	3	3	10	27	41	10	4	98
Ca ovary	12	60	77	116	148	101	45	9	568
Placenta (GTN)	0	22	16	8	2	3	0	0	51
Total	12	90	175	499	768	562	234	50	2390

Cervical Cancer

Table: Morphology of cervical cancer (N=1591)

Morphology	Frequency	Percentage
Squamous cell carcinoma	1304	82.0
Adenocarcinoma	120	7.5
Others	6	0.4
No HPR found	161	10.1
Total	1591	100.0

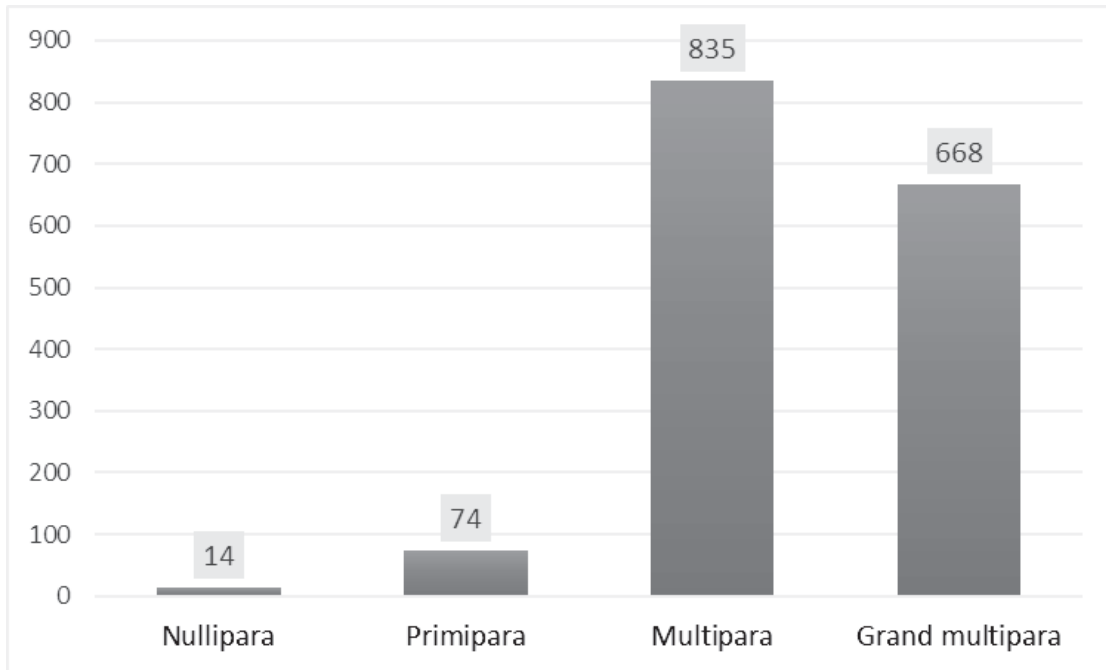


Fig: Parity and cervical cancer

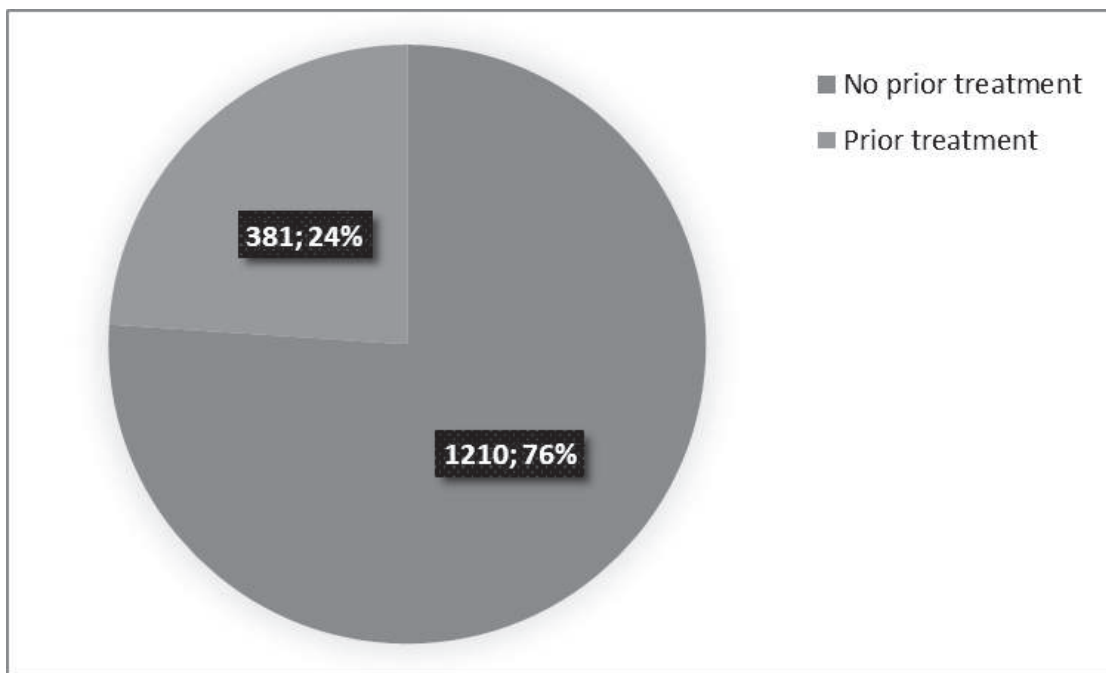


Fig: Case referral (Cx)

N. Ovary

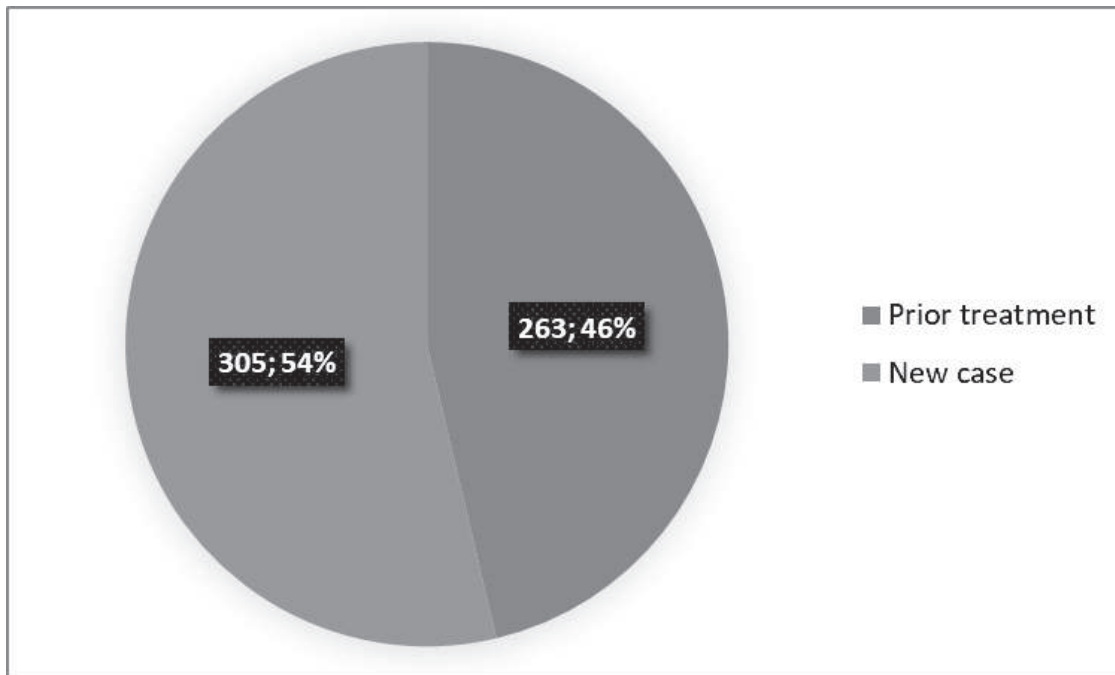


Fig: Case referral (Ovarian cancer)

Table: Morphological types of ovarian cancer

Types	Frequency	Percentage
Adenocarcinoma	65	11.4
Papillary serous	255	44.9
Mucinous	77	13.6
Dysgerminoma	26	4.6
Germ cell tumour	18	3.2
Endometroid	14	2.5
Krukenberg	9	1.6
Dermoid	2	0.4
Teratoma	8	1.4
Clear cell carcinoma	1	0.2
Primary peritoneal carcinoma	2	0.4
Undifferentiated	10	1.8
HPR not found	72	12.7
Granulosa Cell Tumour	9	1.6
Total	568	100.0

Morphology of uterine cancer

Types	Frequency	Percentage
Adenocarcinoma	64	69.6
Papillary serous	9	9.8
Mixed mullerian	4	4.3
Stromal sarcoma	2	2.2
Leiomyosarcoma	5	5.4
Carcinosarcoma	1	1.1
Clear cell carcinoma	1	1.1
HPR not found	4	4.3
S.C.C	2	2.2
Total	92	100.0

Table: Morphology of vulvar cancer

Morphology	Frequency	Percentage
Squamous cell carcinoma	42	76.4
Basal cell carcinoma	4	7.3
Melanotic melanoma	2	3.6
Pagets disease	1	1.8
Dermatofibrosarcoma protuberance	1	1.8
HPR not found	5	9.1
Total	55	100.0

Table: Morphology of vaginal cancer

Morphology	Frequency	Percentage
Squamous cell carcinoma	22	81.5
Adenocarcinoma	3	11.1
Embryonal Rhabdomyosarcoma	1	3.7
Malignant Melanoma	1	3.7
Total	27	100.0

O. Male genital organs

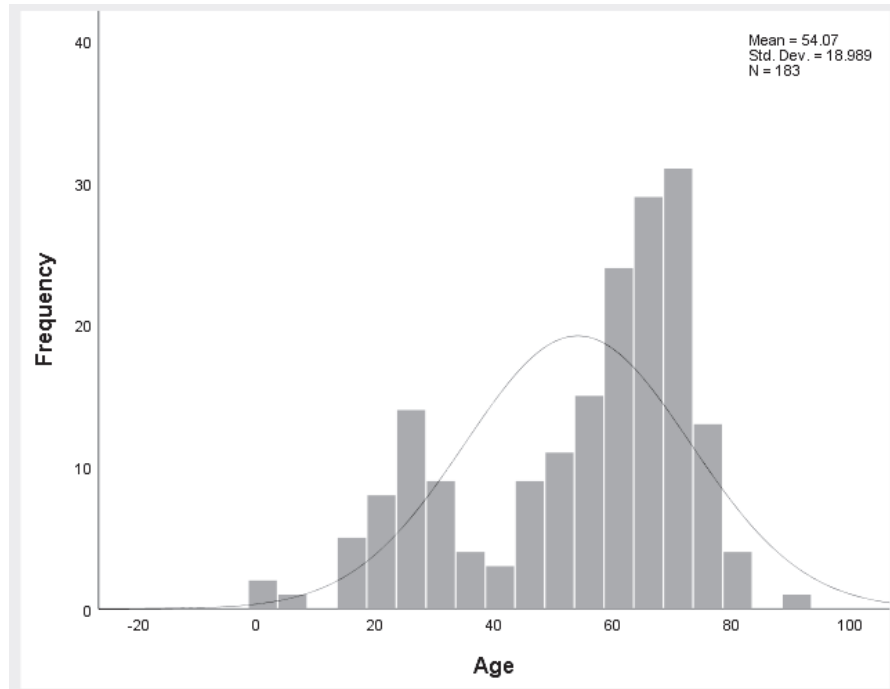


Fig: Age distribution
Mean age 54.07 years SD± 18.989 years

Primary site

Site	Number	Percent
Prostate	120	65.6
Testis	54	29.5
Penis	9	4.9
Total	183	100.0

P. Prostate

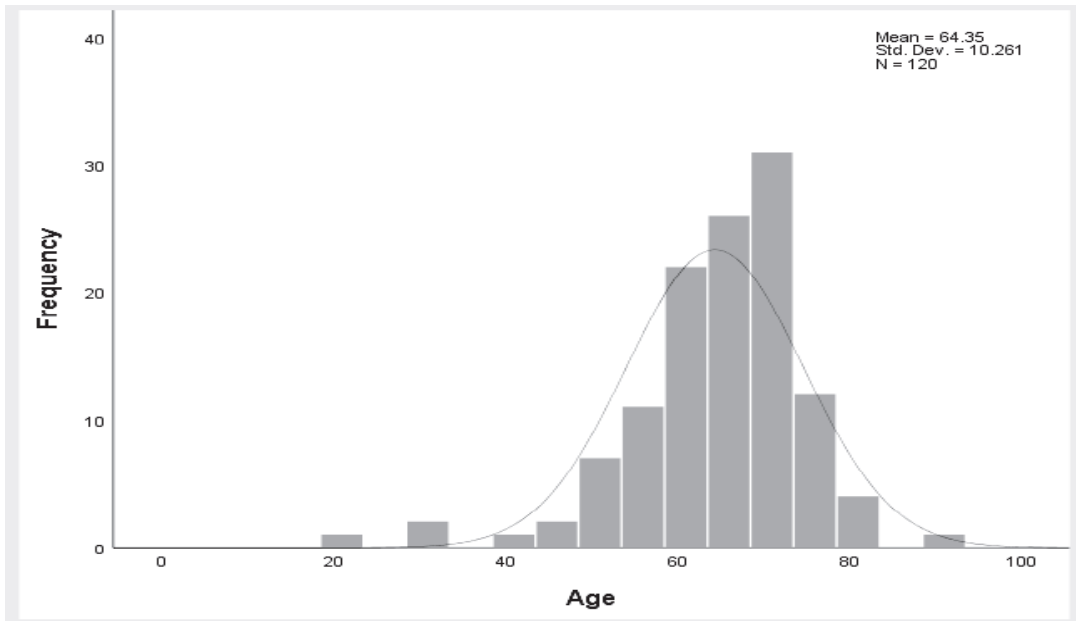


Fig: Age distribution of the patients of prostate cancer
Mean age 64.35 years, SD± 10.26

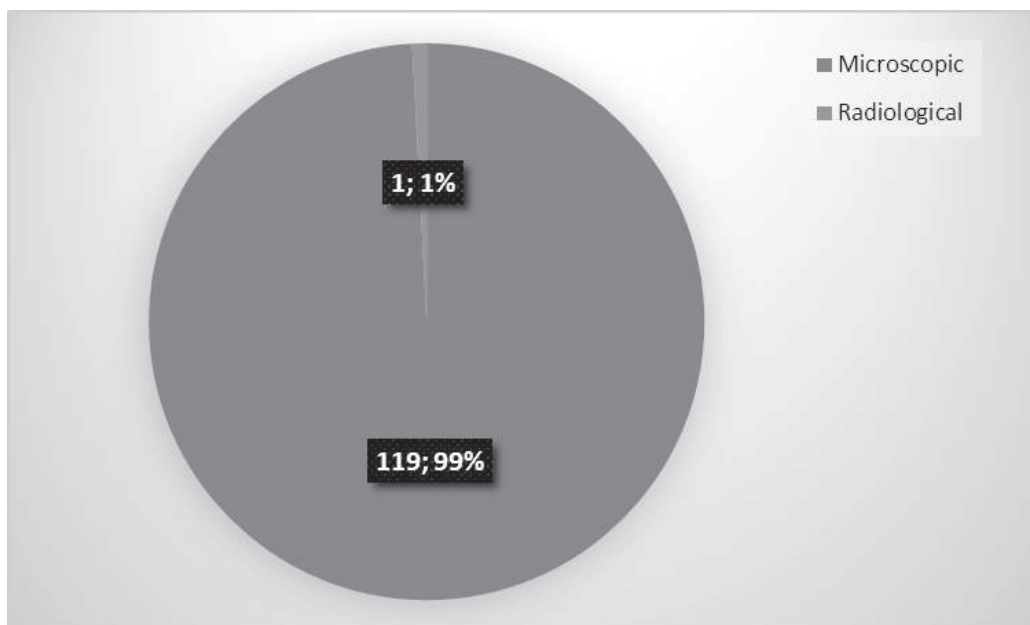


Fig: Diagnostic status (prostate)

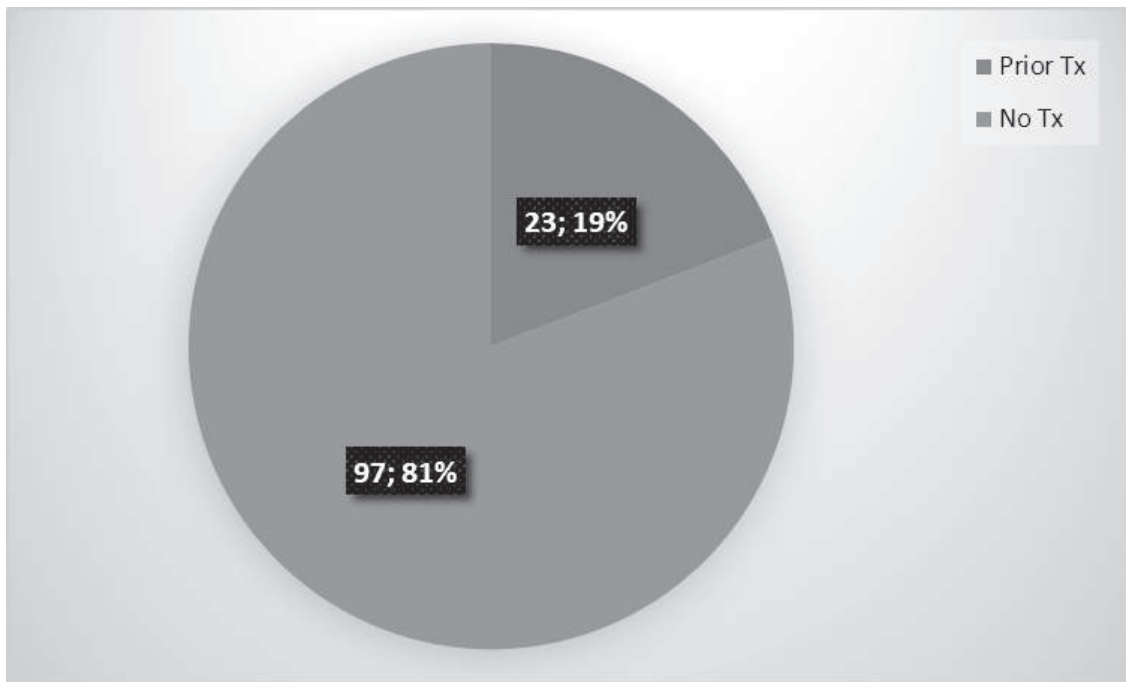


Fig: Case referral (prostate ca)

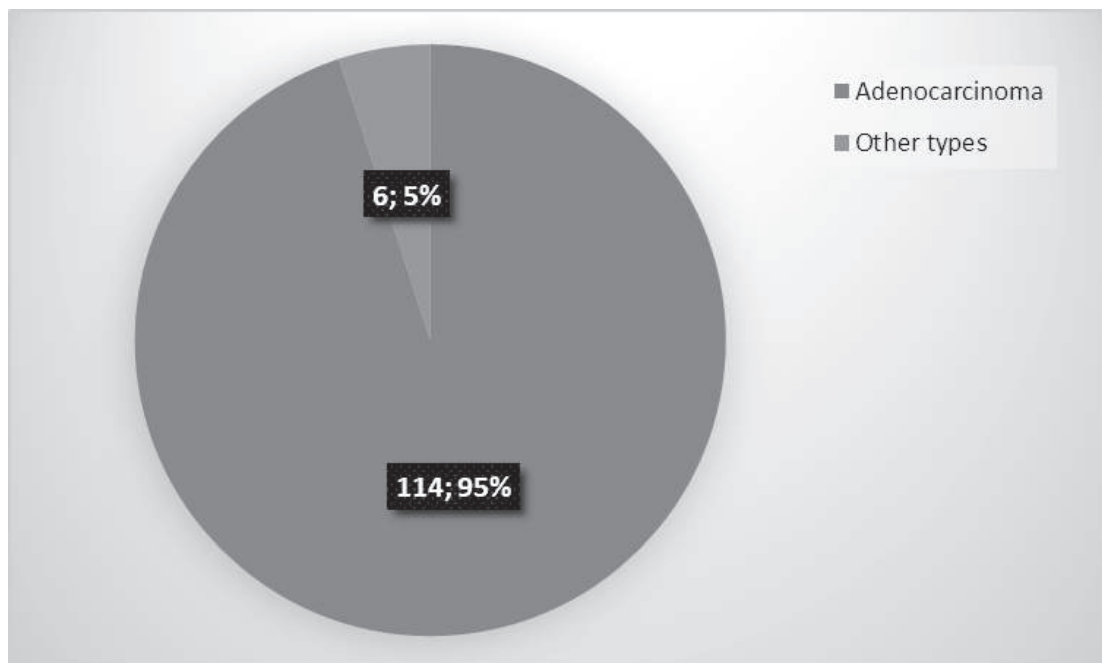


Fig: Morphological type (prostate ca)

Q. Kidney & related organs

Primary site

Primary site of tumour	Sex		Total
	Male	Female	
Kidney	83 (36.1)	25 (32.5)	108 (30.2)
Bladder	147 (63.9)	52 (67.5)	199 (69.8)
Total	230 (100.0)	77 (100.0)	307 (100.0)

R. U. Bladder

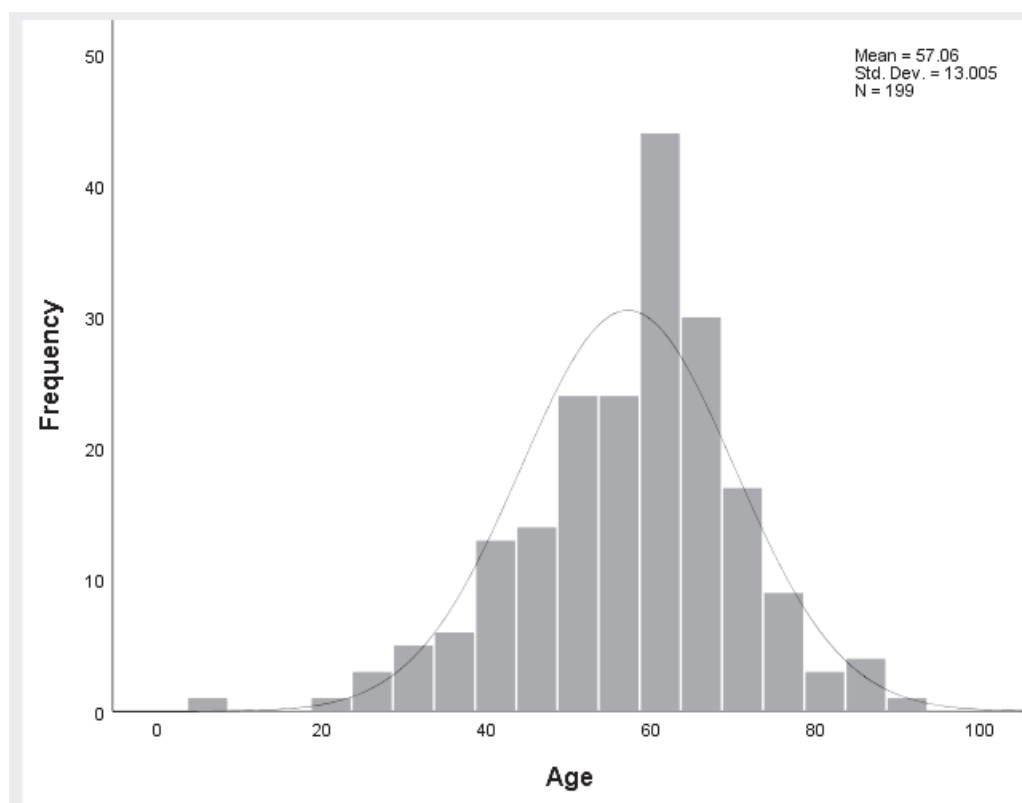


Fig: Age distribution of the patients of Urinary Bladder
Mean age 57.06 SD± 13.01, M: F= 2.8: 1

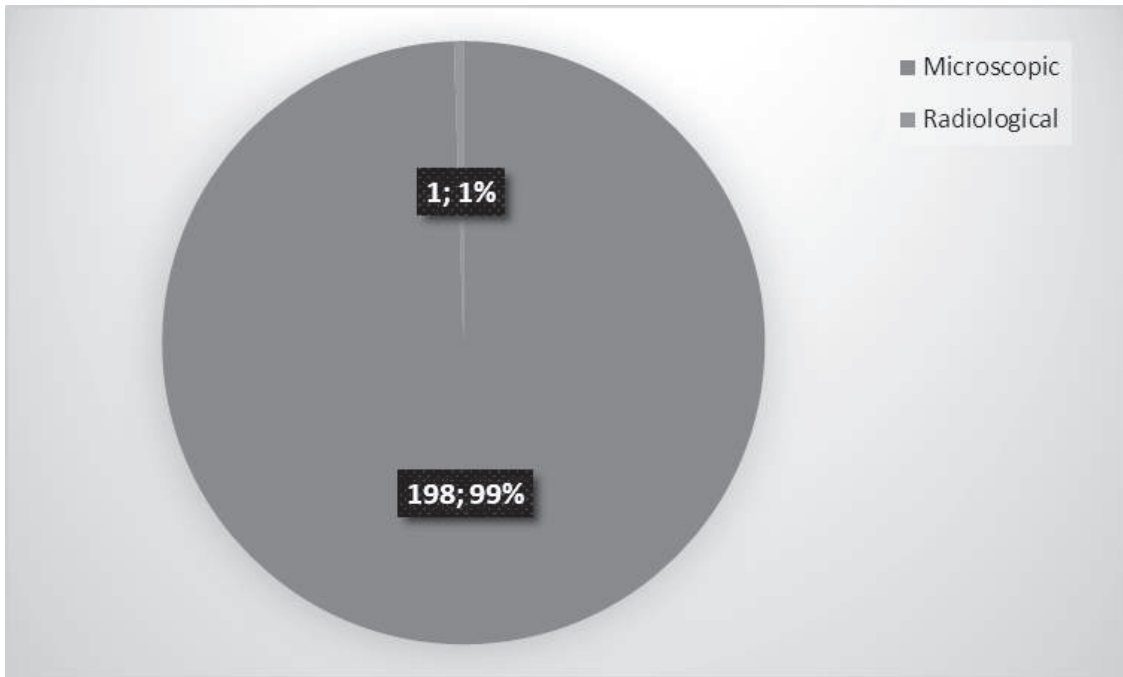


Fig: Diagnostic status (Urinary Bladder ca)

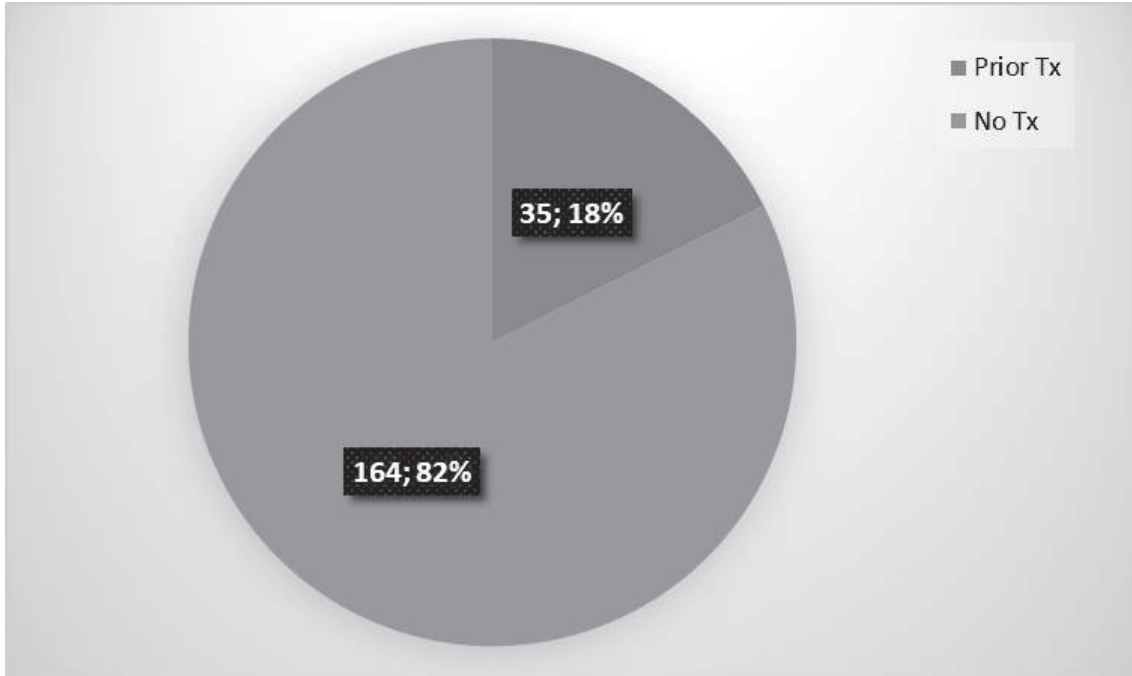


Fig: Case referral (Urinary Bladder ca)

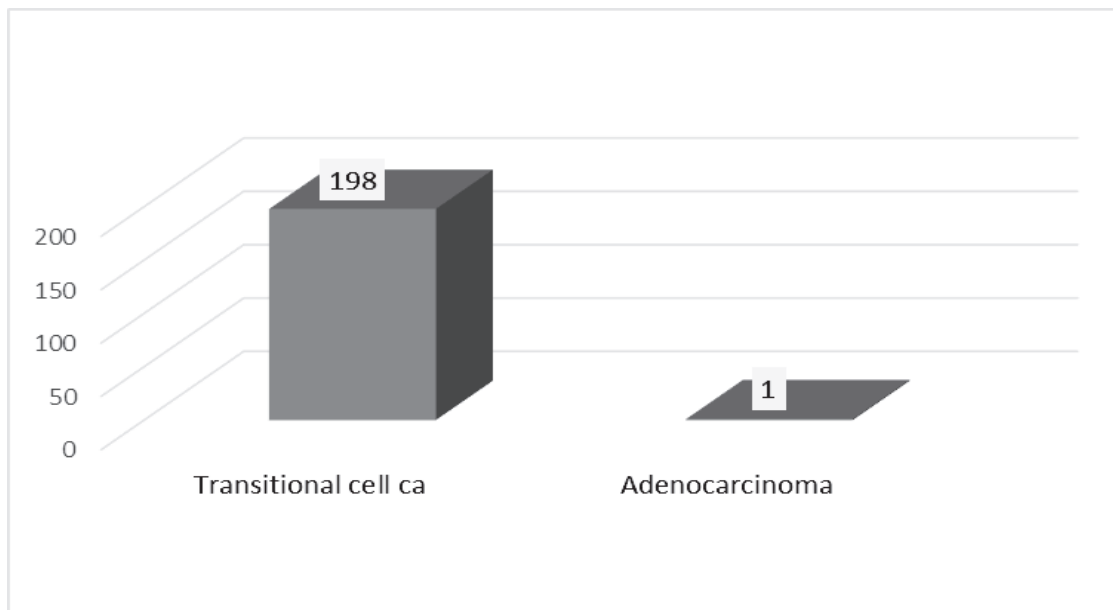


Fig: Morphological type of Urinary Bladder cancer

S. Lymphoma

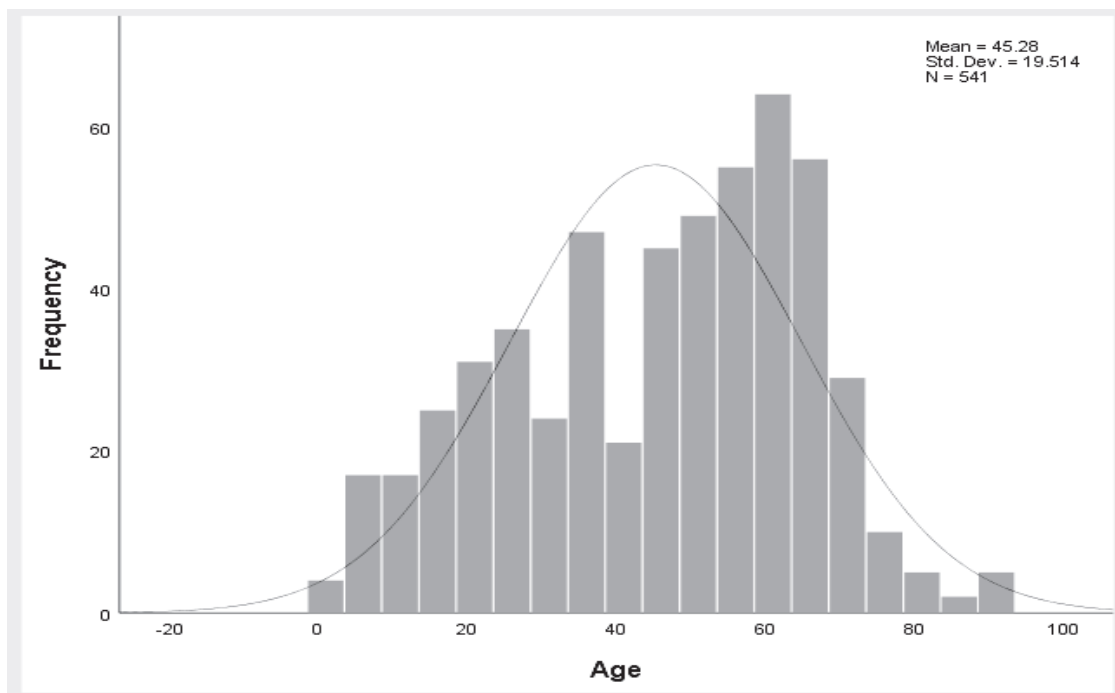


Fig: Age distribution (Lymphoma)
Mean age 45.28 SD± 19.51 years M: F= 2.4:1

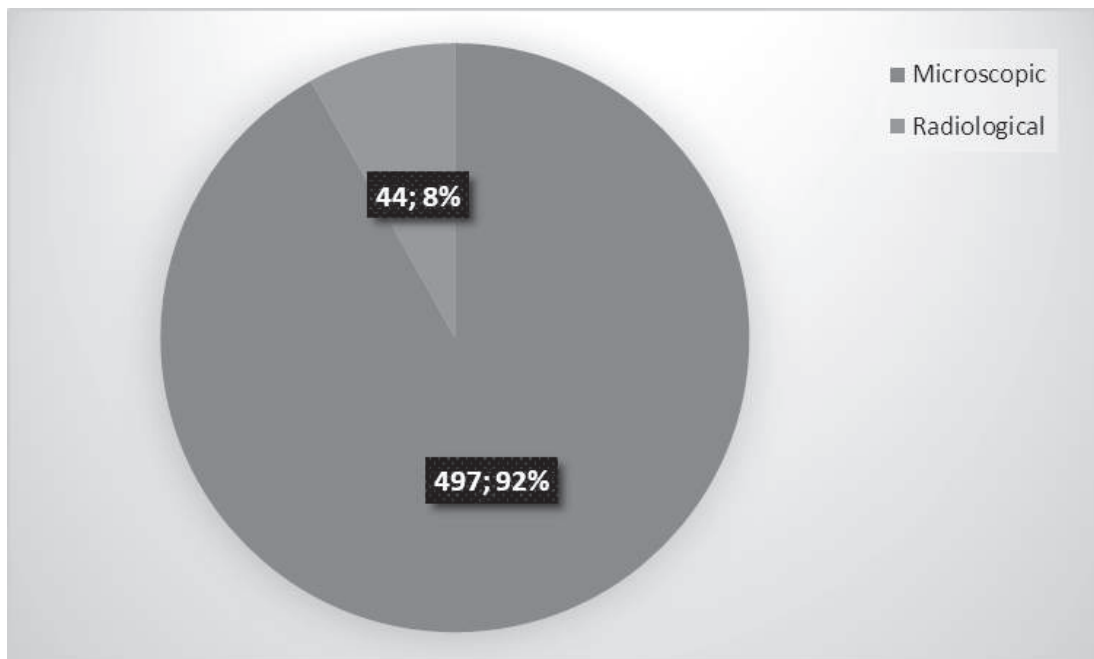


Fig: Diagnostic status (Lymphoma)

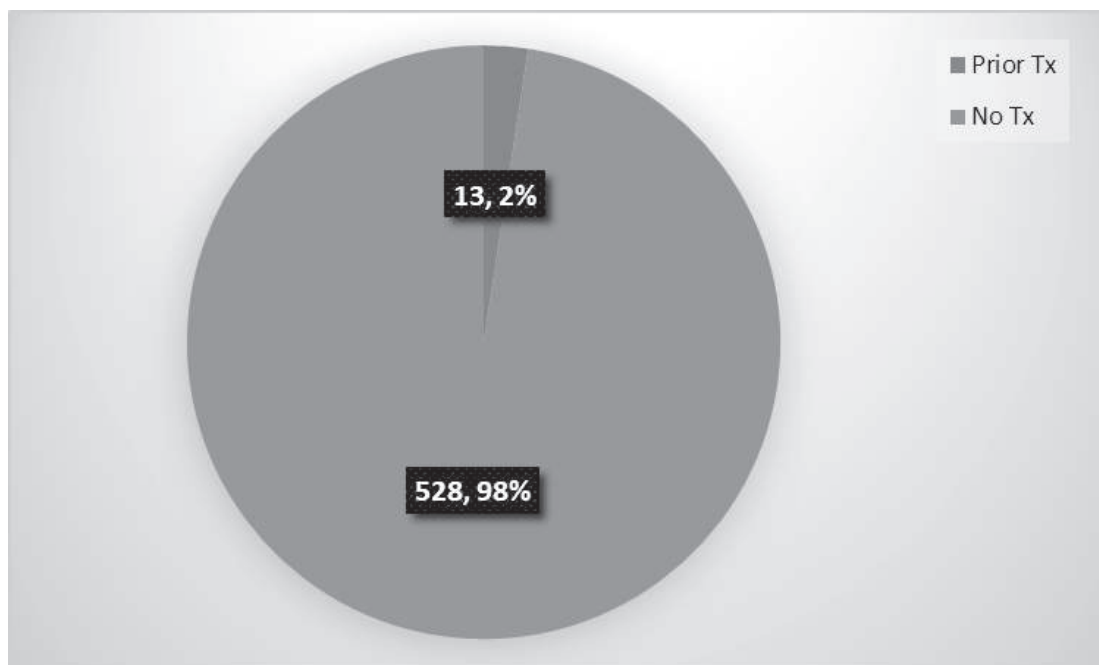


Fig: Case referral (Lymphoma)

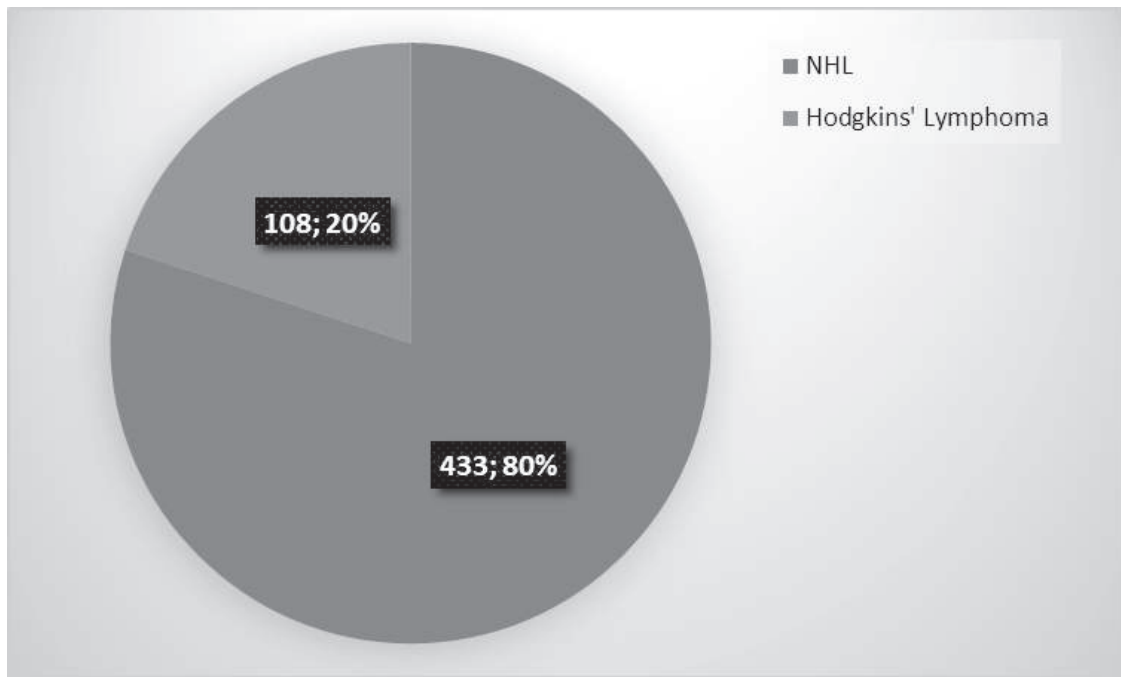


Fig: Morphological type ((Lymphoma)

APPENDICES

Male

ICD-O	Primary site of cancer	Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C00	LIP	0	0	0	2	1	5	2	1	11
C01.9	Base of the tongue	0	0	0	0	0	1	1	1	3
C02.9	Tongue	0	0	8	12	28	47	29	10	134
C03.9	Gum	0	0	0	0	2	3	0	0	5
C04.9	Floor of the mouth	0	0	0	0	3	7	5	0	15
C05.0	Hard palate	0	1	0	0	1	0	1	1	4
C05.1	Soft palate	0	0	0	0	4	0	0	0	4
C05.9	Palate	0	0	2	0	6	4	7	2	21
C06.0	Cheek /buccal mucosa	1	0	6	21	25	51	39	8	151
C06.9	Oral cavity/Buccal cavity	0	0	1	2	3	5	2	1	14
C07.9	Parotid Gland	0	0	4	3	5	8	8	3	31
C08.0	Sub mandibular/maxillary gland	2	0	2	6	12	7	15	6	50
C09.0	Tonsillar fossa	0	0	0	1	3	2	2	1	9
C09.9	Tonsil	0	0	0	5	15	20	17	6	63
C10.0	Vallecula	0	0	0	0	2	4	2	0	8
C10.4	Branchial cleft	0	0	1	2	17	26	23	4	73
C10.9	Oropharynx	0	0	0	0	1	2	1	1	5
C11.9	Nasopharynx	1	0	2	7	3	6	4	0	23
C12.9	Pyriiform sinus/fossa	2	0	0	7	32	38	21	7	107
C13.0	Cricoid	0	0	0	0	0	3	1	0	4
C13.1	Aryepiglottic fold	0	1	0	3	2	2	5	3	16
C13.9	Hypopharynx	0	0	1	0	4	2	2	0	9
C13.9	Laryngopharynx	0	0	0	0	0	1	0	0	1
C14.0	Pharynx	1	0	1	2	4	6	3	1	18
C15.0	Cervical oesophagus	2	4	1	3	22	19	23	2	76
C15.9	Oesophagus	1	1	9	28	80	148	128	45	440
C16.3	Gastric antrum	0	0	2	0	3	3	5	3	16
C16.9	Stomach	1	3	15	46	82	115	89	22	373
C17.0	Duodenum	0	1	2	1	3	3	4	0	14
C17.2	Ileum	0	1	0	0	2	3	2	0	8
C18.0	Cecum	0	0	1	5	11	4	3	0	24
C18.3	Hepatic flexure	1	0	1	2	4	4	3	1	16
C18.7	Sigmoid colon	0	1	0	0	0	0	0	1	2
C18.9	Colon	0	4	20	23	40	29	17	3	136
C20.9	Rectum	2	11	29	48	39	44	25	8	206
C21.1	Anal canal	0	0	2	7	10	0	2	4	25
C22.0	Liver	3	2	31	53	58	78	72	22	319
C23.9	Gall bladder	1	1	6	14	27	33	28	7	117
C24.1	Bile duct	0	0	1	3	1	3	2	1	11
C25.0	Ampulla of Vater	0	0	0	0	1	1	1	0	3
C23.9	Head of pancreas	0	0	0	0	3	1	0	0	4

C25.9	Pancreas	0	0	2	7	4	15	9	5	42
C30.0	Nasal cavity	0	0	1	0	0	2	2	1	6
C30.1	Middle ear, inner ear	0	0	0	1	0	0	1	0	2
C31.0	Maxillary sinuses	0	0	0	2	5	4	2	1	14
C31.2	Frontal sinuses	0	0	1	2	3	1	2	0	9
C31.9	Accessory sinuses	0	0	0	0	0	1	0	1	2
C32.0	Glottis, Vocal cord	1	0	3	3	23	36	17	8	91
C32.1	Supraglottis, Epiglottis,	0	1	1	6	34	34	43	9	128
C32.9	Larynx	0	0	2	11	16	40	21	8	98
C34.0	Bronchus	0	0	0	3	11	19	13	7	53
C34.9	Lung	2	14	27	84	298	691	612	201	1929
C38.4	Pleura	1	3	2	1	7	3	11	5	33
C40.9	Bones & articular cartilages limbs	0	0	1	0	1	0	0	0	2
C41.1	Mandible & Jaw	0	0	2	1	2	2	0	1	8
C41.2	Vertebra & Vertebral column	0	0	1	8	17	10	17	3	56
C41.9	Bones & articular cartilages	9	14	2	0	1	0	0	0	26
C42.0	Blood	51	24	14	26	20	11	3	4	153
C42.1	Bone marrow	3	5	3	6	4	4	4	0	29
C42.4	Haemopoietic system	0	0	0	0	0	1	0	0	1
C44.0	Skin of lip	0	1	0	0	0	5	3	1	10
C44.1	Skin of eye lid	0	0	0	0	0	2	1	0	3
C44.3	Skin of Face	0	0	0	1	0	0	0	0	1
C44.9	Skin	0	0	1	1	4	4	5	2	17
C49.0	Connective tissue of scalp/face/neck	0	0	0	1	2	6	4	2	15
C49.1	Connective tissue (upper extremity)	5	3	2	2	0	3	2	0	17
C49.2	Connective tissue (lower extremity)	17	29	12	22	18	19	7	1	129
C50.9	Breast	0	0	3	0	1	5	5	2	16
C60.9	Penis	0	0	0	0	7	0	1	0	8
C61.9	Prostate	0	1	2	2	9	32	57	17	120
C62.9	Testis	3	15	19	5	4	6	1	1	54
C64.9	Kidney	7	1	9	9	13	28	11	4	82
C65.9	Renal pelvis	0	0	0	0	0	0	1	0	1
C67.9	Bladder	1	1	5	14	24	52	37	13	147
C69.4	Eye ball	1	0	0	0	1	3	1	0	6
C69.6	Orbit	0	0	0	1	1	2	1	0	5
C69.9	Eye	9	1	1	0	1	2	1	1	16
C70.9	Meninges (NOS)	0	0	0	2	1	2	0	0	5
C71.3	Parietal lobe	0	0	1	2	1	1	0	0	5
C71.4	Occipital lobe	0	1	1	0	0	0	0	0	2
C71.7	Brainstem	1	1	0	0	0	0	0	0	2
C71.9	Brain	10	4	10	17	10	14	7	0	72
C73.9	Thyroid	0	4	4	7	8	5	3	0	31
C75.1	Pituitary gland	0	0	0	0	1	0	0	0	1
C76.0	Cheek, Jaw, Nose	0	0	2	3	0	2	2	1	10
C76.2	Abdominal wall	0	0	0	0	1	0	0	0	1

C76.3	Pelvis	0	0	0	0	1	0	0	0	1
C77.0	LN of Head face & Neck	16	40	28	63	132	162	127	46	614
C77.3	LN of axilla	0	2	2	1	3	1	1	0	10
C77.4	Inguinal region	0	1	0	1	6	7	4	2	21
C77.5	Pelvic LN	1	0	0	0	2	0	0	0	3
C77.9	LN	23	27	37	47	58	83	61	10	346
C80.9	Un known primary site	0	5	6	10	16	14	12	1	64

Female

ICD-O		Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C00	LIP	0	0	0	1	2	2	0	0	5
C02.9	Tongue	0	1	4	11	35	27	11	6	95
C03.9	Gum	0	0	0	1	2	2	3	0	8
C04.9	Floor of the mouth	0	0	0	3	3	1	1	0	8
C05.0	Hard palate	0	0	0	0	2	2	0	0	4
C05.1	Soft palate	0	0	0	0	1	0	0	1	2
C05.2	Uvula	0	0	0	1	7	5	3	0	16
C05.9	Palate	1	1	0	1	4	5	1	2	15
C06.0	Cheek /buccal mucosa	0	1	5	27	73	75	42	10	233
C06.1	Vestibule of mouth	0	0	0	0	1	0	0	0	1
C06.9	Oral cavity/Buccal cavity	0	0	1	4	11	8	4	0	28
C07.9	Parotid Gland	1	2	2	3	1	2	1	0	12
C08.0	Sub mandibular/maxillary gland	1	1	4	5	16	16	12	1	56
C09.0	Tonsillar fossa	0	0	0	0	0	1	1	1	3
C09.9	Tonsil	0	0	0	2	3	6	3	1	15
C10.0	Vallecula	0	0	0	0	0	0	1	1	2
C10.4	Branchial cleft	0	0	1	1	1	5	1	1	10
C11.9	Nasopharynx	1	2	1	3	2	1	1	0	11
C12.9	Pyiform sinus/fossa	0	1	3	2	5	13	1	0	25
C13.0	Cricoid	0	0	0	0	1	2	0	0	3
C13.1	Aryepiglottic fold	0	0	0	0	0	0	0	1	1
C14.0	Pharynx	0	0	1	1	0	3	1	0	6
C15.0	Cervical oesophagus	0	2	4	10	11	13	5	0	45
C15.9	Oesophagus	0	0	5	16	47	54	41	12	175
C16.3	Gastric antrum	0	0	2	0	7	2	1	0	12
C16.9	Stomach	0	4	16	38	64	48	29	6	205
C17.0	Duodenum	0	0	0	0	0	3	0	0	3
C17.2	Ileum	0	0	1	0	1	1	1	0	4
C18.0	Cecum	0	0	3	1	1	1	0	0	6
C18.2	Ascending colon	0	0	0	1	0	0	0	0	1
C18.3	Hepatic flexure	0	0	0	1	2	1	1	0	5
C18.7	Sigmoid colon	0	0	0	1	0	0	0	0	1
C18.9	Colon	0	6	17	14	21	9	16	0	83
C20.9	Rectum	1	8	28	32	41	29	17	1	157
C21.1	Anal canal	0	0	2	2	2	3	0	0	9
C22.0	Liver	4	2	12	30	49	35	22	5	159
C23.9	Gall bladder	0	0	4	30	58	49	22	7	170
C24.0	Bile duct	0	0	0	0	3	3	0	0	6
C24.1	Ampulla of Vater	0	0	0	1	0	0	0	0	1

C25.0	Head of pancreas	0	0	1	0	1	0	1	1	4
C25.9	Pancreas	0	0	3	6	3	9	2	2	25
C30.0	Nasal cavity	0	0	1	2	1	2	0	0	6
C30.1	Middle ear, inner ear	0	0	2	0	1	0	2	0	5
C31.0	Maxillary sinuses	0	0	1	1	2	3	3	1	11
C31.2	Frontal sinuses	0	0	0	1	1	0	1	1	4
C32.0	Glottis, Vocal cord	0	0	0	1	1	1	1	0	4
C32.1	Supraglottis, Epiglottis,	0	0	0	2	6	6	4	2	20
C32.9	Larynx	0	0	0	3	4	1	3	0	11
C34.0	Bronchus	0	0	1	0	1	2	2	0	6
C34.3	Lower lobe of lung	0	0	0	0	0	0	1	0	1
C34.9	Lung	1	4	16	57	82	127	85	19	391
C38.4	Pleura	0	1	0	1	2	2	7	1	14
C41.1	Mandible & Jaw	0	0	0	1	2	5	3	0	11
C41.2	Vertebra & Vertebral column	2	0	1	2	3	6	2	0	16
C41.9	Bones & articular cartilages	2	4	2	1	3	0	0	0	12
C42.0	Blood	28	12	21	9	6	10	3	0	89
C42.1	Bone marrow	2	3	5	2	1	6	0	0	19
C42.2	Spleen	0	1	0	0	0	0	0	0	1
C44.0	Skin of lip	0	0	0	0	7	0	0	1	8
C44.1	Skin of eye lid	0	0	0	0	0	1	0	0	1
C44.3	Skin of Face	0	0	0	0	0	1	0	0	1
C44.9	Skin	0	0	1	3	3	5	5	0	17
C48.1	Omentum, Pouch of Duglus, Cal de sac	0	0	0	2	4	3	0	0	9
C49.0	Connective tissue of scalp/face/neck	0	1	0	1	4	5	1	0	12
C49.1	Connective tissue (upper extremity)	3	5	2	3	5	2	0	0	20
C49.2	Connective tissue (lower extremity)	13	10	12	5	8	6	2	2	58
C50.0	Breast (Nipple/areola)	0	1	1	1	0	1	0	0	4
C50.9	Breast	1	44	247	491	547	234	72	14	1650
C51.9	Ca vulva	0	1	4	5	9	22	10	4	55
C52.9	Ca vagina	0	1	4	5	13	3	1	0	27
C53.9	Ca cervix	0	3	71	355	569	392	168	33	1591
C55.9	Ca uterus	0	3	3	10	27	41	10	4	98
C56.9	Ca ovary	12	60	77	116	148	101	45	9	568
C58.9	Placenta (GTN)	0	22	16	8	2	3	0	0	51
C64.9	Kidney	3	0	1	1	6	10	4	0	25
C67.9	Bladder	0	0	3	6	13	16	10	4	52
C69.0	Conjunctiva	0	0	0	1	0	1	0	0	2
C69.4	Eye ball	0	0	1	0	0	0	0	0	1
C69.6	Orbit	1	1	0	0	1	0	0	0	3
C69.9	Eye	5	0	0	1	1	0	0	0	7
C70.0	Cerebral meninges	0	0	0	0	1	0	0	0	1

C70.9	Meninges (NOS)	1	0	0	0	0	2	0	0	3
C71.1	Frontal lobe	0	0	0	0	1	0	0	0	1
C71.4	Occipital lobe	0	1	0	0	0	0	0	0	1
C71.7	Brainstem	0	1	0	0	0	0	0	0	1
C71.9	Brain	5	6	7	11	5	3	4	1	42
C73.9	Thyroid	0	9	15	10	22	16	7	2	81
C76.0	Cheek, Jaw, Nose	0	1	0	2	1	0	1	0	5
C76.2	Abdominal wall	0	0	1	0	1	1	0	0	3
C76.3	Pelvis	0	0	0	0	0	1	0	0	1
C77.0	LN of Head face & Neck	10	13	27	44	63	54	28	9	248
C77.2	Intra-abdominal LN	0	0	0	0	0	1	0	0	1
C77.3	LN of axilla	0	2	6	6	11	5	1	0	31
C77.4	Inguinal region	0	0	0	1	0	2	2	1	6
C77.5	Pelvic LN	0	2	0	1	3	1	0	0	7
C77.9	LN	13	16	16	13	23	29	22	8	140
C80.9	Un known primary site	2	2	6	7	6	7	2	1	33

Primary site of tumour	Male	Female	Total	Primary site of tumour	Male	Female	Total
Lip	11	5	16	Tonsillar fossa	9	3	12
Sq cell ca	10	5	15	Sq cell ca	9	3	12
Basal cell ca	1	0	1	Tonsil	63	15	78
Adenocarcinoma	2	0	2	Sq cell ca	61	15	76
Base of the tongue	3	0	3	Adenocarcinoma	2	0	2
Sq cell ca	3	0	3	Vallecula	8	2	10
Tongue	134	95	229	Sq cell ca	8	2	10
Malignant tumour	0	1	1	Branchial cleft	73	10	83
Sq cell ca	134	93	227	Sq cell ca	63	10	73
Adenocarcinoma	0	1	1	Adenoid Sq cell ca	1	0	1
Gum	5	8	13	Adenocarcinoma	9	0	9
Sq cell ca	5	8	13	Oropharynx	5		5
Floor of the mouth	15	8	23	Sq cell ca	4		4
Sq cell ca	15	6	21	Adenocarcinoma	1		1
Basal cell ca	0	1	1	Nasopharynx	23	11	34
Adenocarcinoma	0	1	1	Sq cell ca	22	10	32
Hard palate	4	4	8	Basal cell ca	0	1	1
Sq cell ca	4	3	7	Adenocarcinoma	1	0	1
Adenocarcinoma	0	1	1	Pyriform sinus/fossa	107	25	132
Soft palate	4	2	6	Sq cell ca	106	23	129
Spindle cell ca	1	0	1	Adenocarcinoma	1	2	3
Sq cell ca	3	2	5	Cricoid	4	3	7
Uvula		16	16	Sq cell ca	3	3	6
Sq cell ca		11	11	Adenocarcinoma	1	0	1
Basal cell ca		1	1	Aryepiglottic fold	16	1	17
Adenocarcinoma		4	4	Sq cell ca	15	0	15
Palate	21	15	36	Adenocarcinoma	1	1	2
Sq cell ca	18	13	31	Hypopharynx	9		9
Adenoid Sq cell ca	0	1	1	Sq cell ca	9		9
Adenocarcinoma	3	1	4	Pharynx	18	6	24
Cheek /buccal mucosa	151	233	384	Sq cell ca	18	6	24
Sq cell ca	151	233	384	Laryngopharynx	1		1
Vestibule of mouth		1	1	Sq cell ca	1		1
Sq cell ca		1	1	Cervical oesophagus	76	45	121
Oral cavity/Buccal cavity	14	28	42	Sq cell ca	64	39	103
Sq cell ca	14	28	42	Adenocarcinoma	6	6	12
Parotid Gland	31	12	43	Hodgkins' Lymphoma	6	0	6
Sq cell ca	2	1	3	Oesophagus	440	175	615
Adenocarcinoma	3	0	3	Sq cell ca	384	160	544
Mucoepidermoid ca	26	11	37	Adenocarcinoma	56	15	71
Sub mandibular /Maxillary gland	50	56	106	Gastric antrum	16	12	28
Sq cell ca	48	54	102	Sq cell ca	7	7	14
Adenocarcinoma	2	2	4	Adenocarcinoma	9	5	14

Primary site of tumour	Male	Female	Total	Primary site of tumour	Male	Female	Total
Stomach	373	205	578	Bile duct	11	6	17
Malignant tumour	123	59	182	Cholangiocarcinoma	11	6	17
Sq cell ca	26	14	40	Ampulla of Vater	3	1	4
Adenocarcinoma	224	132	356	Sq cell ca	2	1	3
Duodenum	14	3	17	Adenocarcinoma	1	0	1
Sq cell ca	3	1	4	Head of pancreas	4	4	8
Adenocarcinoma	11	2	13	Sq cell ca	1	0	1
Ileum	8	4	12	Adenocarcinoma	3	4	7
Sq cell ca	4	2	6	Pancreas	42	25	67
Adenocarcinoma	3	2	5	Sq cell ca	3	4	7
Ewing's sarcoma	1	0	1	Adenocarcinoma	39	21	60
Cecum	24	6	30	Nasal cavity	6	6	12
Sq cell ca	8	1	9	Sq cell ca	5	4	9
Adenocarcinoma	14	5	19	Adenocarcinoma	1	1	2
Adeno cystic ca	1	0	1	Adeno cystic ca	0	1	1
Sarcoma	1	0	1	Middle ear, inner ear	2	5	7
Ascending colon		1	1	Sq cell ca	2	3	5
Adenocarcinoma		1	1	Basal cell ca	0	1	1
Hepatic flexure	16	5	21	malignant melanoma	0	1	1
Sq cell ca	15	4	19	Maxillary sinuses	14	11	25
Adenocarcinoma	1	1	2	Sq cell ca	13	11	24
Sigmoid colon	2	1	3	Adenocarcinoma	1	0	1
Adenocarcinoma	2	1	3	Frontal sinuses	9	4	13
Colon	136	83	219	Sq cell ca	9	1	11
Malignant tumour	1	0	1	Adenocarcinoma	0	2	2
Sq cell ca	10	4	14	Accessory sinuses	2	0	2
Adenocarcinoma	125	79	204	Sq cell ca	2	0	2
Rectum	206	157	363	Glottis, vocal cord	91	4	95
Malignant tumour	1	1	2	Sq cell ca	91	4	95
Sq cell ca	36	29	65	Supra- & epiglottis	128	20	148
Adenocarcinoma	169	127	299	Sq cell ca	128	20	148
Anal canal	25	9	34	Larynx	98	11	109
Sq cell ca	15	6	21	Sq cell ca	97	11	108
Adenocarcinoma	9	3	12	Adenocarcinoma	1	0	1
Fibrosarcoma	1	0	1	Bronchus	53	6	59
Liver	319	159	478	Sq cell ca	52	5	57
Adenocarcinoma	3	4	7	Adenocarcinoma	1	1	2
Cholangiocarcinoma	0	1	1	Lung	1929	392	2321
Hepatocellular ca	316	154	470	Large cell ca	3	1	4
Gall bladder	117	170	287	Small cell ca	130	23	153
Adenoma	0	1	1	Sq cell ca	1300	205	1505
Sq cell ca	6	9	15	Adenocarcinoma	496	163	659
Adenocarcinoma	111	160	271				

Primary site of tumour	Male	Female	Total	Primary site of tumour	Male	Female	Total
Pleura	33	14	47	Connective tissue of scalp/face/neck	15	12	27
Small cell ca	1	0	1	Sq cell ca	11	9	20
Sq cell ca	28	9	37	Basal cell ca	2	1	3
Adenocarcinoma	4	5	9	Adenocarcinoma	1	1	2
Bone & art. cart.	28	12	40	Sarcoma	1	1	2
Osteosarcoma	3	0	3	Connective tissue of UL	17	16	33
Ewing's sarcoma	25	12	37	Giant cell ca	0	1	1
Mandible & jaw	8	11	19	Sq cell ca	7	5	12
Osteosarcoma	8	11	19	Adenocarcinoma	2	1	3
Vertebra & v.coln	56	16	72	Sarcoma	1	1	2
Adenocarcinoma	33	10	43	Osteosarcoma	7	7	14
Osteosarcoma	23	6	29	Chondrosarcoma	0	1	1
Blood	153	89	242	Connective tissue of LL	111	58	169
Multiple myeloma	1	1	2	Osteosarcoma	65	37	102
Leukemia	12	12	24	Sq cell ca	19	7	26
ALL	84	41	125	Rhabdomyosarcoma	13	5	18
AML	35	27	62	Ewing's sarcoma	5	1	6
CML	21	8	29	Malignant melanoma	1	0	1
Bone marrow	29	19	48	Sarcoma	1	3	4
ALL	7	1	8	Fibrosarcoma	0	1	1
AML	15	9	24	Fibrous histiocytoma	1	0	1
CML	7	9	16	Adenocarcinoma	1	1	2
Haemopoietic system	1	1	2	Embryonal carcinoma	1	0	1
Hemangiosarcoma	1	1	2	Spindle cell ca	0	1	1
Skin of lip	10	8	18	Chondrosarcoma	1	1	2
Sq cell ca	4	2	6	Astrocytoma	1	0	1
Basal cell ca	6	6	12	Breast (nipple)	0	4	4
Skin of eye lid	3	1	4	Duct cell ca	0	4	4
Sq cell ca	3	1	4	Breast	16	1650	1666
Skin of Face	1	1	2	Duct cell ca	14	1645	1659
Sq cell ca	1	1	2	Sq cell ca	0	2	2
Skin	17	17	34	Adenocarcinoma	2	3	5
Sq cell ca	9	5	14	Vulva		55	55
Basal cell ca	7	11	18	Squamous cell carcinoma		42	42
Malignant melanoma	1	1	2	Basal cell carcinoma		4	4
Pouch of Douglas	0	9	9	Melanotic melanoma		2	2
Sq cell ca	0	4	4	Pagets disease		1	1
Adenocarcinoma	0	4	4	Dermatofibrosarcoma protuberance		1	1
Serous cystadenoma ca	0	1	1	HPR not found		5	5

Primary site of tumour	Male	Female	Total	Primary site of tumour	Male	Female	Total
Vagina		27	27	Penis	9		9
Squamous cell carcinoma		22	22	Sq cell ca	6		6
Adenocarcinoma		3	3	Adenocarcinoma	3		3
Embryonal Rhabdoembryonal		1	1	Prostate	120		120
Malignant Melanoma		1	1	Adenocarcinoma	118		118
Cervix		1591	1591	Spindle cell ca	1		1
Squamous cell carcinoma		1304	1304	Small cell ca	1		1
Adenocarcinoma		120	120	Testis	54		54
Others		6	6	Seminoma	54		54
Uterus		92	92	Kidney	83	25	108
Adenocarcinoma		64	64	Orbit	5	36	8
Papillary serous		9	9	Rhabdomyosarcoma	1	3	4
Mixed mullerian		4	4	Neuroblastoma	2	0	2
Stromal sarcoma		2	2	Adenocarcinoma	1	0	1
Leiomyosarcoma		5	5	Serous cystadeno ca	1	0	1
Carcinosarcoma		1	1	Eye	16	7	23
Clear cell carcinoma		1	1	Sq cell ca	0	1	1
HPR not found		4	4	Retinoblastoma	16	6	22
S.C.C		2	2	Cerebral meninges		1	1
Ovary		568	568	Glioblastoma		1	1
Adenocarcinoma		65	65	Meninges (NOS)	5	3	8
Papillary serous		255	255	Meningioma	5	3	8
Mucinous		77	77	Frontal lobe		1	1
Dysgerminoma		26	26	Adenocarcinoma		1	1
Germ cell tumour		18	18	Parietal lobe	5		5
Endometroid		14	14	Adenocarcinoma	1		1
Krukenberg		9	9	Glioblastoma	4		4
Dermoid		2	2	Occipital lobe	2	1	3
Teratoma		8	8	Adenocarcinoma	0	1	1
Clear cell carcinoma		1	1				
Primary peritoneal carcinoma		2	2				
Undifferentited		10	10	Glioma	1	0	1
HPR not found		72	72	Astrocytoma	1	0	1
Granulosa Cell Tumor		9	9	Brainstem	2	1	3
Uterus		92	92	Glioma	1	0	1
Adenocarcinoma		64	64	Medulloblastoma	1	0	1
Papillary serous		9	9	Neuroblastoma	0	1	1
Mixed mullerian		4	4	Brain	72	42	114
Stromal sarcoma		2	2	Glioma	11	4	15
Leiomyosarcoma		5	5	Ependymoma	0	2	2
Carcinosarcoma		1	1	Astrocytoma	48	26	74
Clear cell carcinoma		1	1	Glioblastoma	10	6	16
HPR not found		4	4	Medulloblastoma	2	3	5
S.C.C		2	2	Neuroblastoma	1	1	2

Renal cell ca	81	25	106	Thyroid	31	81	112
TCC	2	0	2	Papillary ca	29	81	110
Urinary bladder	147	52	199	Sq cell ca	1	0	1
Transitional cell ca	146	52	198	Adenocarcinoma	1	0	1
Adenocarcinoma	1	0	1	Pituitary gland	1		1
Bladder	147	52	199	Adenocarcinoma	1		1
Transitional cell ca	146	52	198	Cheek, Jaw, Nose	10	5	15
Adenocarcinoma	1	0	1	Malignant tumour	1	0	1
Conjunctiva		2	2	Small cell ca	0	1	1
Sq cell ca		2	2	Sq cell ca	5	4	9
Eye ball	6	1	7	Adenocarcinoma	3	0	3
Sq cell ca	1	0	1	Neuroblastoma	1	0	1
Retinoblastoma	5	1	6				
Primary site of tumour		Female	Total	Primary site of tumour	Male	Female	Total
Abdominal wall	1	3	4	Adeno cystic ca	0	1	1
Sq cell ca	1	1	2	LN	346	140	486
Adenocarcinoma	0	1	1	Sq cell ca	2	0	2
Sarcoma	0	1	1	Adenocarcinoma	0	1	1
Pelvis	1	1	2	Ewing's sarcoma	2	0	2
LN of Head face & Neck	614	248	862	NHL	311	122	433
Malignant tumour	3	3	6	Hodgkin's' Lymphoma	31	17	48
Giant cell type	2	0	2	Un known primary site	64	33	97
Large cell ca	1	0	1	Malignant tumour	6	3	9
Spindle cell ca	8	2	10	Small cell ca	2	0	2
Small cell ca	11	2	13	Sq cell ca	45	25	70
Sq cell ca	412	154	566	Adenocarcinoma	15	7	22
Adenocarcinoma	109	60	169	Duct cell ca	0	1	1
Cholangiocarcinoma/Bile duct carcinoma	0	1	1				
Hepatocellular ca	1	1	2				
Adeno cystic ca	1	0	1				
Malignant melanoma	1	0	1				
Sarcoma	5	3	8				
Fibrosarcoma	5	3	8				
Fibrous histiocyoma	6	3	9				
Dermatofibroma	2	0	2				
Rhabdomyosarcoma	1	0	1				
Seminoma	1	0	1				
Ewing's sarcoma	11	1	12				
Hodgkin's' Lymphoma	34	16	50				
LN of axilla	10	31	41				
Malignant tumour	1	0	1				
Sq cell ca	4	24	28				
Adenocarcinoma	2	6	8				

Sarcoma	0	1	1				
Rhabdomyosarcoma	1	0	1				
Hodgkin's' Lymphoma	2	0	2				
Inguinal region LN	21	6	27				
Sq cell ca	12	4	16				
Adenocarcinoma	5	0	5				
Malignant melanoma	0	1	1				
Sarcoma	1	0	1				
Fibrosarcoma	1	0	1				
Lymphoma	2	1	3				
Pelvic LN	3	7	10				
Sq cell ca	3	4	7				
Adenocarcinoma	0	2	2				

Cancer Registry Report 2020

Summary

The hospital-based registry started officially on January 01, 2005 at the National Institute of Cancer Research & Hospital (NICRH), Mohakhali, Dhaka. Already five full reports (for 2005, 2005-2007, 2008-2010, 2014 & 2015-2017) and one draft report (for 2011-2013) have been published. In addition, the cancer registry report for the years 2014, 2015-2017 was published online and available at the NICRH website (nicrh.gov.bd/reports). This is the cancer registry report for the year 2020. In 2020, 26202 both old and new patients attended the Out Patient Department (OPD) of NICRH. Of them, we could include 11203 (42.8%) new patients who had some proof of cancer at the time of the interview. The rest were excluded as they had no medical records with them at the time of data collection. Many of them were eventually diagnosed as cancer patients for sure but they were not included in this report.

Demography:

Majorities (5972, 53.3) of the patients were male and the rest 5231 (46.7%) patients were female giving rise to a male-female ratio of 1.4:1. Mean age of the patients was 49.76 years with SD± 15.9 which ranged from 1 to 102 years. Among the all patients 93.7% (10499) were Muslims & 93.1% (10429) were married. A huge number of patients (40.4%, 4530) were illiterate & about 40% patients (4475) had attained primary-level education. Agricultural activities were the main profession of men (32.9%, 3689) while almost all females (4909/5231) were housewives.

System wise distribution:

Cancer of the digestive organs (2557, 22.8%) occupied the top two position followed by cancer of the respiratory system and intrathoracic organ (2200, 19.6%), breast cancer (1501, 13.4%), lip oral cavity and pharynx cancer (1229, 11%) and female genital organ cancer (1155, 10.3 %). However final data from dept. of Gynaecological Oncology revealed that the total number of female patients suffering from genital organ cancer was 2365. (Table: 1).

Leading sites:

Lung was the main leading site of cancers in both sexes (1712, 15.3%). Breast came up with 2nd position (1496, 13.4%). Cervix (858, 7.7%), oesophagus (503, 4.5%), stomach (459, 4.1%), liver (444, 4.0), lymphoma (442, 3.9%), rectum (363, 3.2), cheek/buccal mucosa (363, 3.2%) and blood (317, 2.8%) occupied the successive places.

Lung cancers occupied the first place in male patients (1435, 24%). Oesophagus (350, 5.9%), lymph node cancer (318, 5.3%), liver (305, 5.1%), stomach (302, 5.1%), rectum (236, 4%), blood (220, 3.7%), cheek/buccal mucosa (153, 2.6%), larynx (137, 2.3%) and tongue cancer (136, 2.3%) came next in that order.

Among female carcinoma of the breast lead the tally (1475, 28.3%) followed by carcinoma of cervix (854, 16.4%), lung (276, 5.3%), cheek/buccal mucosa (210, 4%), stomach (157, 3%), oesophagus (153, 2.9%), rectum (153, 2.9%), gall bladder (142, 2.7%), ovary (141, 2.7%) and liver (139, 2.7%).

Residential status:

Majority of the patients attended OPD of NICRH were from Dhaka division (3797, 33.9%) and next from Chattogram division (2502, 22.3%). The other divisional representations were as follows: Barishal (1306, 11.7%), Mymensingh (1179, 10.5%), Khulna (1080, 9.6%), Rajshahi (601, 5.4%), Rangpur (465, 4.2%) and Sylhet (273, 2.4%).

Smoking habit:

About 66% (3959) male cancer patients were ever smoker and about 10% (590) were current smoker. Only 0.6% (32) female patients were ever smoker. About 53% males (n=3152) were habituated with chewing tobacco. Among female this percentage was 46 (n=2404).

Method of diagnosis:

A total number of 9016 (80.5%) patients came to this hospital with confirmed histopathological diagnosis, 1712 (15.3%) patients had cytopathological diagnosis. Just over one percent patients (n=143) reported suspected diagnosis based on radiological evidences and 332 (3%) patients were only clinically diagnosed as cancer patients at the time of registration.

Paediatric cancer:

The patient of 0-18 years is considered as paediatric group. A total of 469 (4.2%) paediatric patients were included in this report although the actual number might be much higher. Of them 303 (64.6%) were male paediatric patients & 166 (35.4%) were female. Blood cancer topped the list (112, 23.9%) followed by cancer of connective tissue (72, 11.1%), lymph node cancer (50, 10.7%), brain cancer (25, 5.3%) and cancer of the bones & articular cartilages (15, 3.2%).

Geriatric cancer:

Patients of 65 years and above were considered as geriatric patients. About 27% (2262) of all cancer patients were from this age group. Most of them i.e., 1663 were male (73.5%) and the remaining 26.5 % (599) were female. Lung (619, 27.4%) was the leading cancer in this age group followed by oesophageal cancer (166, 7.3%), stomach cancer (122, 5.4%), cervical cancer (103, 4.6%) and liver cancer (94, 4.2%).

Treatment received before attending NICRH:

Most of the patients (9946, 88.8%,) did not receive any kind of cancer treatment before attending NICRH, only about 11% (1257) got some treatment before.

Figure 1: Residential Status by districts

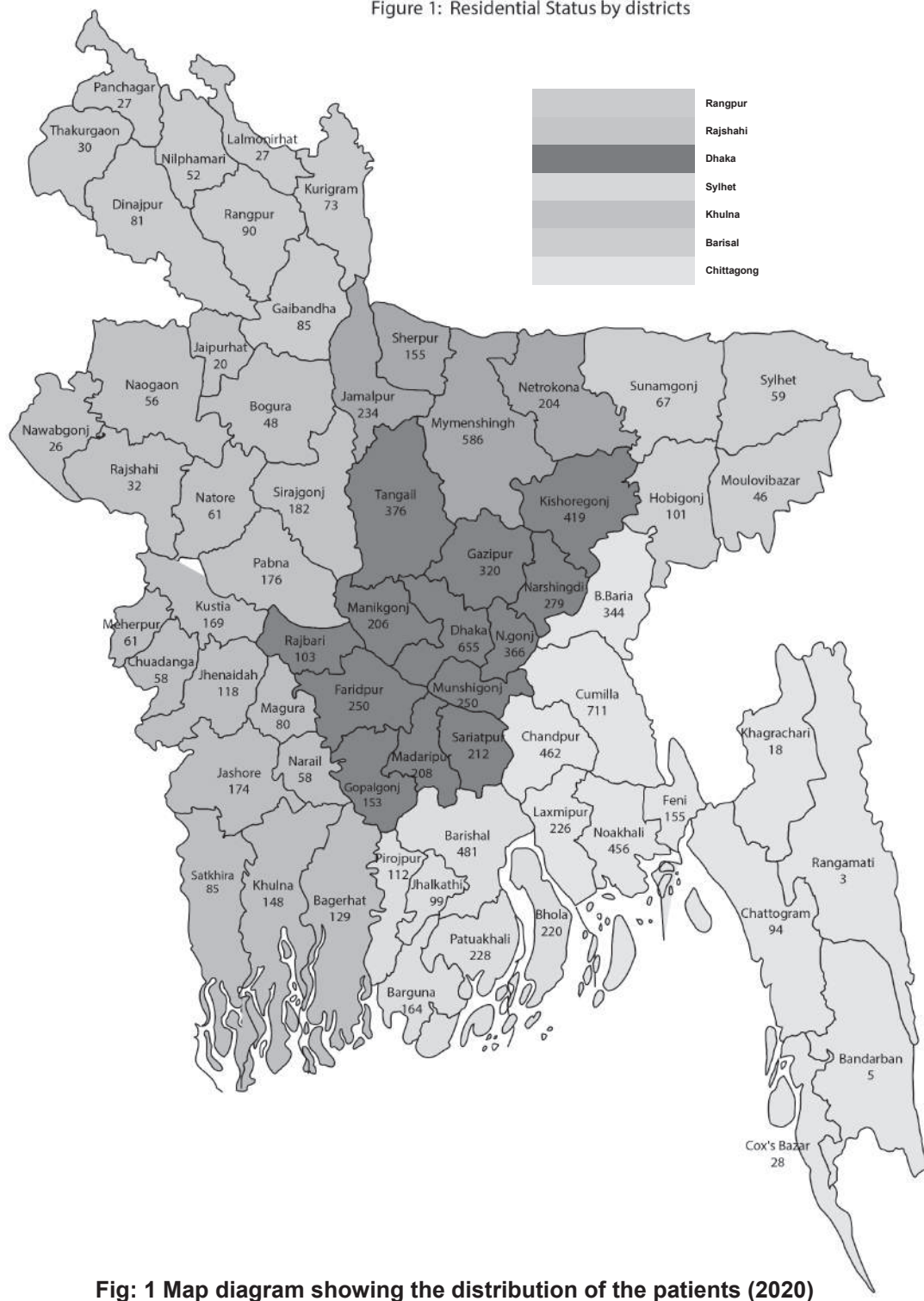
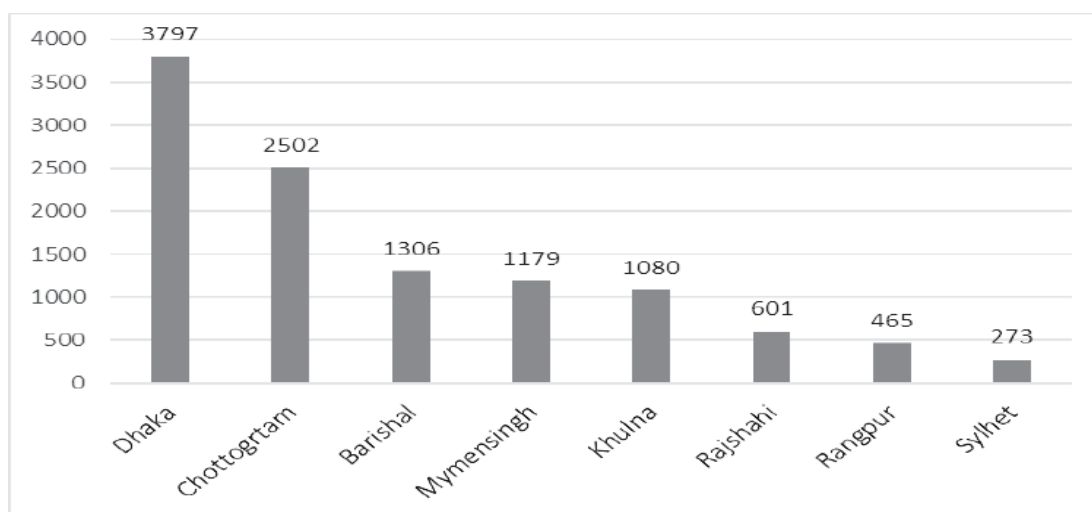


Fig: 1 Map diagram showing the distribution of the patients (2020)



System wise pattern:

ICD -O	Prim ary site	Fre quency	Percent
C00-C14	Lip, oral cavity and pharynx	1229	11.0
C15-C26	Digestive organs	2557	22.8
C30-C39	Respiratory system and intrathoracic organs	2200	19.6
C40-C41	Bones, joints and articular cartilage	115	1.0
C42	Hemopoietic and reticu loendotheli al systems	342	3.1
C44	Skin	55	0.5
C48	Retroperitoneum and peritoneum	6	0.1
C49	Connective, subcutaneous and other soft tissues	239	2.1
C50	Breast	1501	13.4
C51-C58	Female genital organs*	1155	10.3
C60-C63	Male genital organs	136	1.2
C64-C68	Urin ary tract	257	2.3
C69-C72	Eye, brain and other parts of the CNS	144	1.3
C73-C75	Thyroid and other endocrine glan ds	94	0.8
C76	Other and ill -defined sites	25	0.2
C77	Lymph nodes	1052	9.4
C80	Unknown primary site	96	0.9
	Total	11203	100.0

* The Department of Gynae Oncology provide d us the final data of 2365 patients suffering from female genital organs cancer

B. Demography:

Variabl es	Male (%) (n=5986)	Female (%) (n=5217)	Total (%) (n=11203)
Religion			
Islam	5603 (93.6)	4896 (93.8)	10499 (93.7)
Hinduism	372 (6.2)	315 (6.0)	687 (6.1)
Christianity	8 (0.1)	6 (0.1)	14 (0.1)
Buddhism	3 (0.1)	0 (0.0)	3 (0.0)
Marital status			
Never married	426 (7.1)	199 (3.8)	625 (5.6)
Married	5558 (92.8)	4871 (93.4)	10429 (93.1)
Widowed	1 (0.0)	122 (2.3)	123 (1.1)
Divorced	1 (0.0)	25 (0.5)	26 (0.2)
Education			
Not applicable	88 (1.5)	37 (0.7)	125 (1.1)
Ill iterate	2206 (36.9)	2324 (44.5)	4530 (40.4)
Primary	2456 (41.0)	2019 (38.7)	4475 (39.9)
Secondary	617 (10.3)	497 (9.5)	1114 (9.9)
Higher Secondary	338 (5.6)	189 (3.6)	527 (4.7)
Graduate & above	281 (4.7)	151 (2.9)	432 (3.9)
Occupation			
Not applicable	84 (1.4)	37 (0.7)	121 (1.1)
Service	643 (10.8)	85 (1.6)	728 (6.5)
Business	636 (10.6)	6 (0.1)	642 (5.7)
Agriculture	3674 (61.4)	15 (0.3)	3689 (32.9)
Day labourer	381 (6.4)	0 (0.0)	381 (3.4)
House wife	-	4909 (93.8)	4909 (43.8)
Retired/ aged	168 (2.8)	16 (0.3)	184 (1.6)
Industrial worker	41 (0.7)	1 (0.0)	42 (0.4)
Student	297 (5.0)	158 (3.0)	455 (4.1)
Others	48 (0.8)	4 (0.1)	52 (0.5)

C. Leading sites of cancer:

Table: Top 10 malignancies (2020)

Sl. No.	Site	Number	Percentage
1	Lung	1712	15.3
2	Breast	1496	13.4
3	Cervix	858	7.7
4	Oesophagus	503	4.5
5	Stomach	459	4.1
6	Liver	444	4.0
7	Lymphoma	442	3.9
8	Rectum	389	3.5
9	Cheek /buccal mucosa	363	3.2
10	Blood	317	2.8

Table: Top 10 cancers in male (2020)

Sl. no.	Site	Number	Percentage
1	Lung	1435	24.0
2	Oesophagus	350	5.9
3	Lymph node	318	5.3
4	Liver	305	5.1
5	Stomach	302	5.1
6	Rectum	236	4.0
7	Blood	220	3.7
8	Cheek /buccal mucosa	153	2.6
9	Larynx	137	2.3
10	Tongue	136	2.3

Table: Top 10 cancers in female (2020)

Sl. no.	Site	Number	Percentage
1	Breast	1475	28.3
2	Cervix	854	16.4
3	Lung	276	5.3
4	Cheek /buccal mucosa	210	4.0
5	Stomach	157	3.0
6	Oesophagus	153	2.9
7	Rectum	153	2.9
8	Gall bladder	142	2.7
9	Ovary	141	2.7
10	Liver	139	2.7

D. Special age group cancer:

Paediatric cancer (0-18 years)

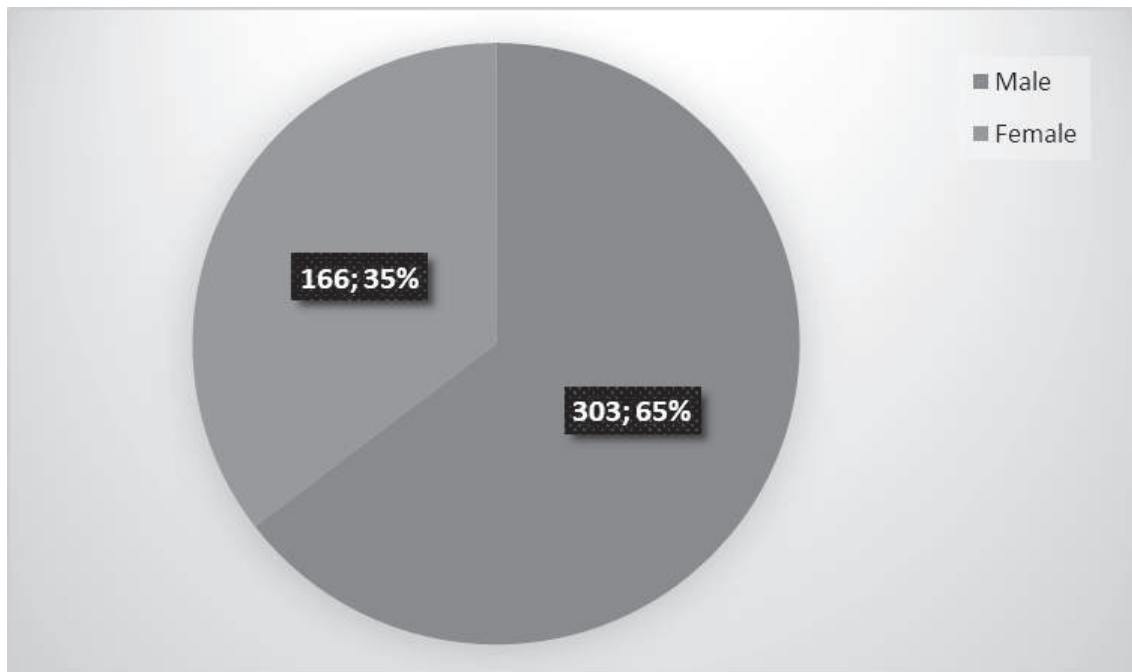


Fig: Paediatric cancers (n=469)

Table: Site of paediatric cancer (N=469)

Sl. No.	Site of cancer	Frequency	Percentage
1.	Blood	112	23.9
2.	Connective tissue	72	11.1
3.	Lymph node	50	10.7
4.	Brain	25	5.3
5.	Bones & articular cartilages	15	3.2
6.	Cervical oesophagus	11	2.3
7.	Lung	10	2.1
8.	Nasopharynx	8	1.7
9.	Rectum	8	1.7
10.	Kidney	8	1.7

Table: Morphology of paediatric cancer (n=469)

Sl. No.	Morphology	Frequency	Percentage
1.	Leukemia	119	25.4
2.	Sq cell ca	89	19.0
3.	Osteosarcoma	53	11.3
4.	Lymphoma	50	10.7
5.	Ewing's sarcoma	35	7.5
6.	Adenocarcinoma	27	5.8
7.	Sarcoma	16	3.4
8.	Astrocytoma	9	1.9
9.	Retinoblastoma	8	1.7
10.	Neuroblastoma	7	1.5

Geriatric cancer (≥ 65 years)

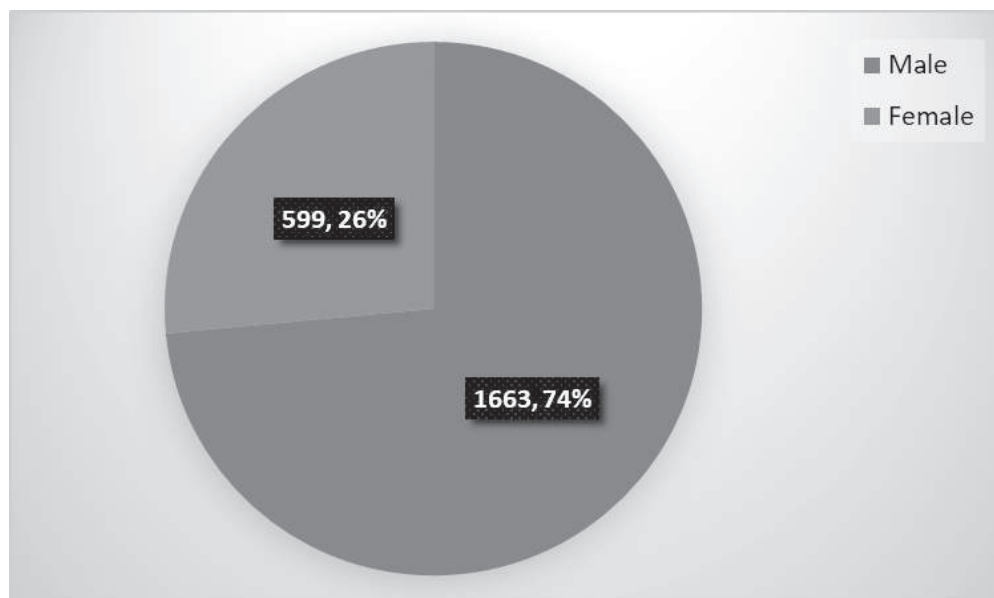


Fig: Sex distribution of the geriatric patients (n=2262)

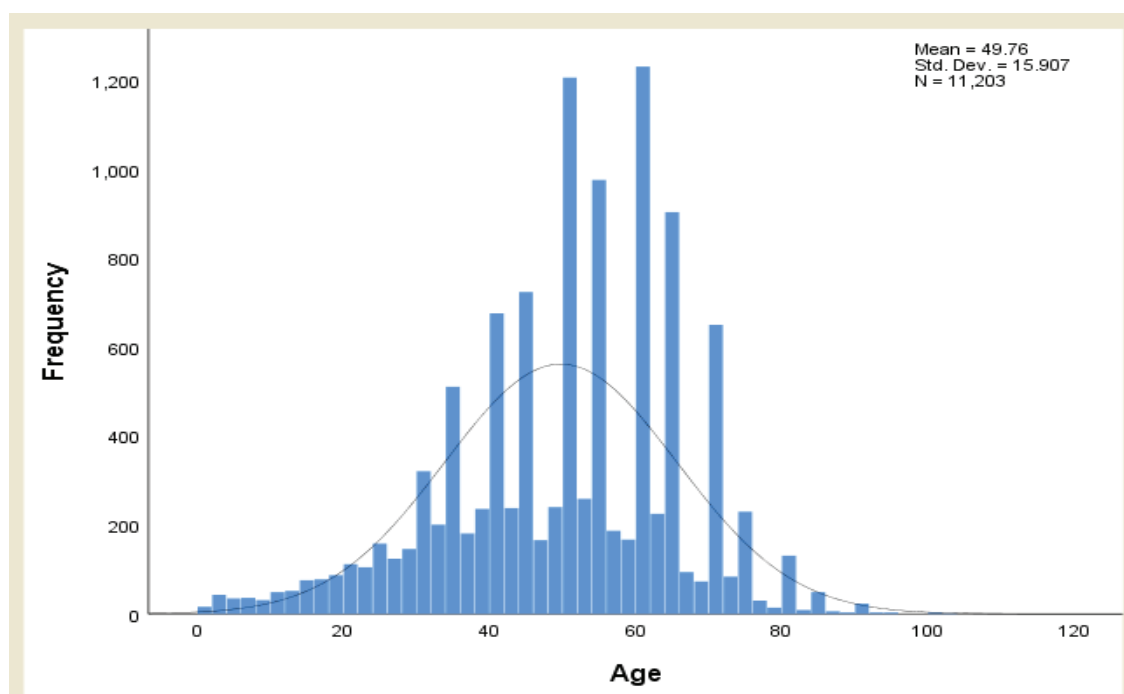
Table: Primary site of geriatric cancers (n=2262)

Sl. No.	Primary site of cancer	Frequency	Percent
1.	Lung	619	27.4
2.	Oesophagus	166	7.3
3.	Stomach	122	5.4
4.	Cervix	103	4.6
5.	Liver	94	4.2
6.	Breast	84	3.7
7.	Lymph node	70	3.1
8.	Cheek /buccal mucosa	69	3.1
9.	Bladder	55	2.4
10.	Tongue	50	2.2

Table: Morphology of geriatric cancer (n=2262)

Sl. No.	Morphology	Frequency	Percent
1.	Sq cell ca	1299	57.4
2.	Adenocarcinoma	481	21.3
3.	Hepatocellular ca	92	4.1
4.	Duct cell ca	83	3.7
5.	Lymphoma	70	3.1
6.	Transitional cell ca	54	2.4
7.	Small cell ca	36	1.6
8.	Renal cell ca	16	0.7
9.	Papillary ca	15	0.7
10.	Basal cell ca	10	0.4

All sites:



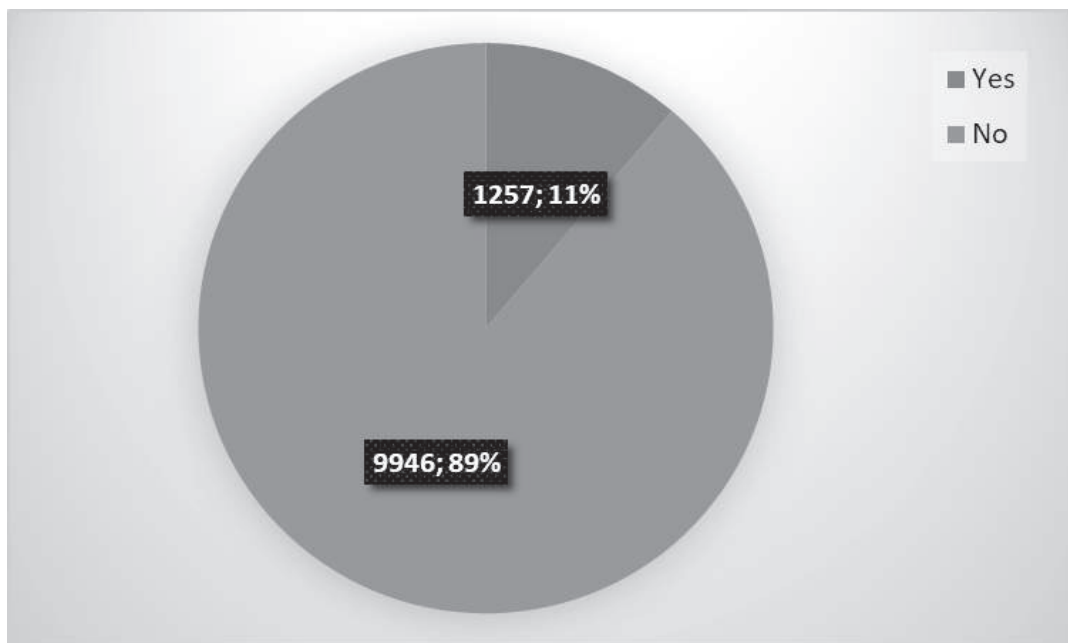


Fig: Received treatment outside NICRH

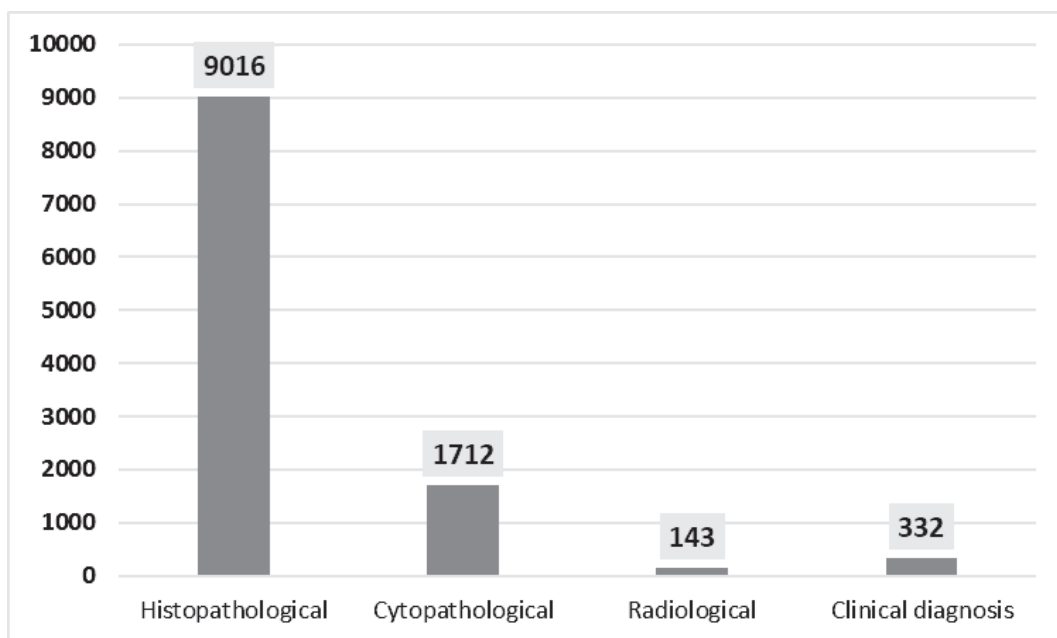


Fig: Method of diagnosis

F. Head & neck cancer

Primary site	Gender		Total
	Male	Female	
LIP	10 (0.9)	6 (1.0)	16 (1.0)
Base of the tongue	25 (2.3)	10 (1.7)	35 (2.1)
Tongue	136 (12.7)	86 (14.9)	222 (13.5)
Gum	7 (0.7)	4 (0.7)	11 (0.7)
Floor of the mouth	9 (0.8)	10 (1.7)	19 (1.2)
Hard palate	3 (0.3)	5 (0.9)	8 (0.5)
Soft palate	4 (0.4)	6 (1.0)	10 (0.6)
Uvula	1 (0.1)	25 (4.3)	26 (1.6)
Palate	13 (1.2)	10 (1.7)	23 (1.4)
Cheek /buccal mucosa	153 (14.3)	210 (36.5)	363 (22.0)
Vestibule of mouth	0 (0.0)	1 (0.2)	1 (0.1)
Oral cavity/Buccal cavity	26 (2.4)	42 (7.3)	68 (4.1)
Parotid Gland	20 (1.9)	16 (2.8)	36 (2.2)
Sub mandibular/maxillary gland	31 (2.9)	25 (4.3)	56 (3.4)
Tonsillar fossa	4 (0.4)	2 (0.3)	6 (0.4)
Tonsil	55 (5.1)	15 (2.6)	70 (4.2)
Vallecula	8 (0.7)	2 (0.3)	10 (0.6)
Branchial cleft	36 (3.4)	3 (0.5)	39 (2.4)
Oropharynx	8 (0.7)	2 (0.3)	10 (0.6)
Nasopharynx	42 (3.9)	15 (2.6)	57 (3.5)
Pyriform sinus/fossa	79 (7.4)	19 (3.3)	98 (5.9)
Cricoid	3 (0.3)	0 (0.0)	3 (0.2)
Aryepiglottic fold	1 (0.1)	1 (0.2)	2 (0.1)
Hypopharynx	9 (0.8)	3 (0.5)	12 (0.7)
Pharynx	24 (2.2)	4 (0.7)	28 (1.7)
Nasal cavity	3 (0.3)	3 (0.5)	6 (0.4)
Maxillary sinuses	15 (1.4)	18 (3.1)	33 (2.0)
Ethmoid sinuses	0 (0.0)	1 (0.2)	1 (0.1)
Frontal sinuses	8 (0.7)	6 (1.0)	14 (0.8)
Glottis, Vocal cord	67 (6.2)	4 (0.7)	71 (4.3)
Supraglottis, Epiglottis,	136 (12.7)	17 (3.0)	153 (9.3)
Larynx	137 (12.8)	5 (0.9)	142 (8.6)
Total	1073 (100.0)	576 (100.0)	1649 (100.0)

Percentages are given in the parenthesis

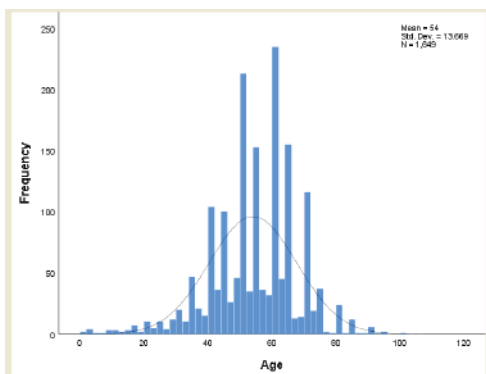


Fig: Age distribution of H & N cancers

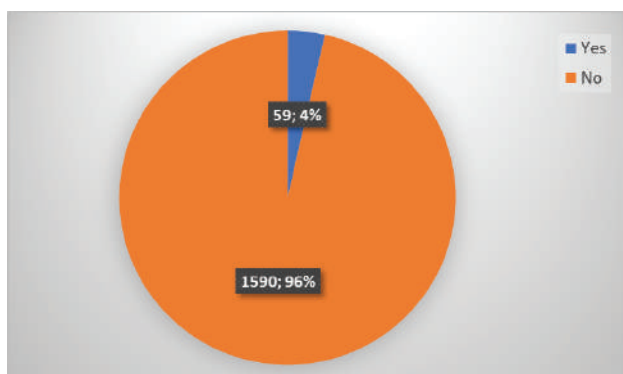


Fig: Case referral (H&N cancers)

G. Respiratory System

Primary site of tumour	Sex		Total
	Male	Female	
Bronchus	27 (1.8)	4 (1.4)	31 (1.7)
Lung	1436 (96.8)	277 (94.9)	1712 (96.5)
Mediastinum	5 (0.3)	0 (0.0)	5 (0.3)
Pleura	15 (1.0)	11 (3.8)	26 (1.5)
Total	1483 (100.0)	292 (100.0)	1775 (100.0)

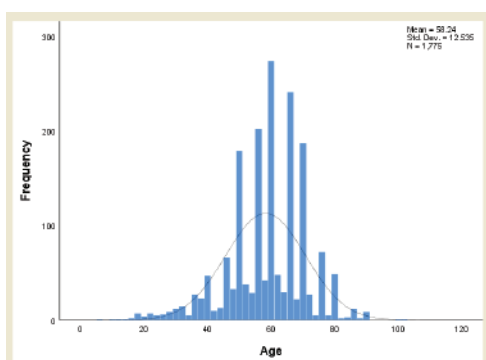


Fig: Age distribution of respiratory cancers

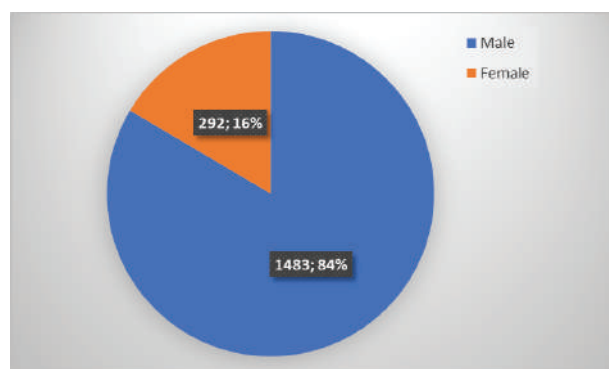


Fig: Gender distribution of respiratory cancers

H. Lung cancer:

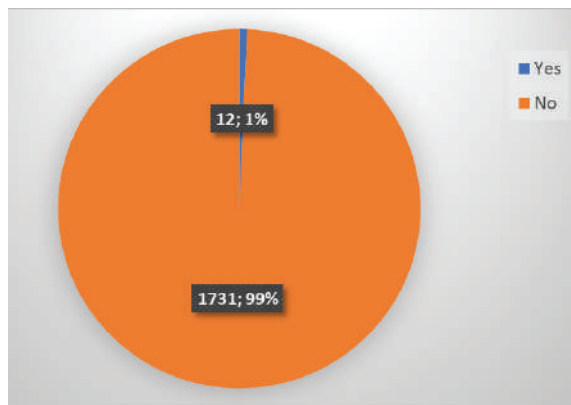
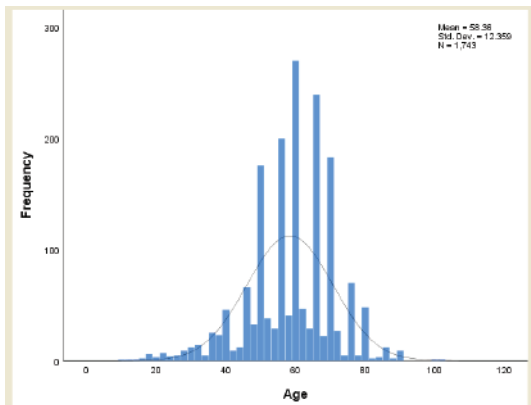


Figure: Age group distribution of lung cancer patients Fig: H/O treatment received (lung cancer)

Male 1462 (83.9%), female 281 (16.1%) male female ratio 5.2:1.
 Mean age 58.36 year, SD±12.36 years.

Table: Morphology of lung cancer (N=1743)

Morphology	Frequency	Percent
Sq cell ca	1199	68.8
Adenocarcinoma	449	25.8
Small cell ca	92	5.3
Large cell ca	03	0.2
Total	1743	100.0

I. Breast cancer:

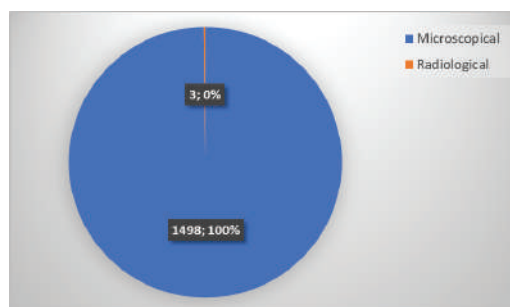
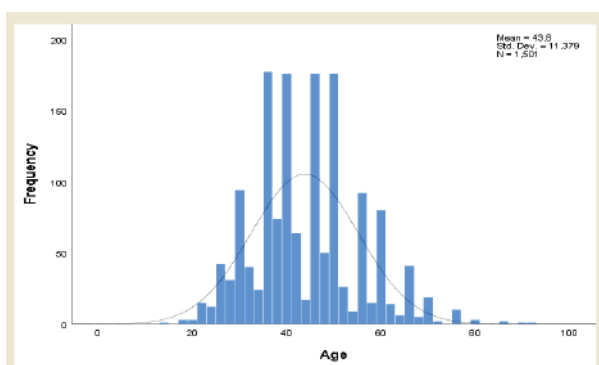


Fig: Age group distribution of breast cancer patients

Fig: Diagnostic status (n=1501)

Mean age 43.8 years, SD ±11.37 years

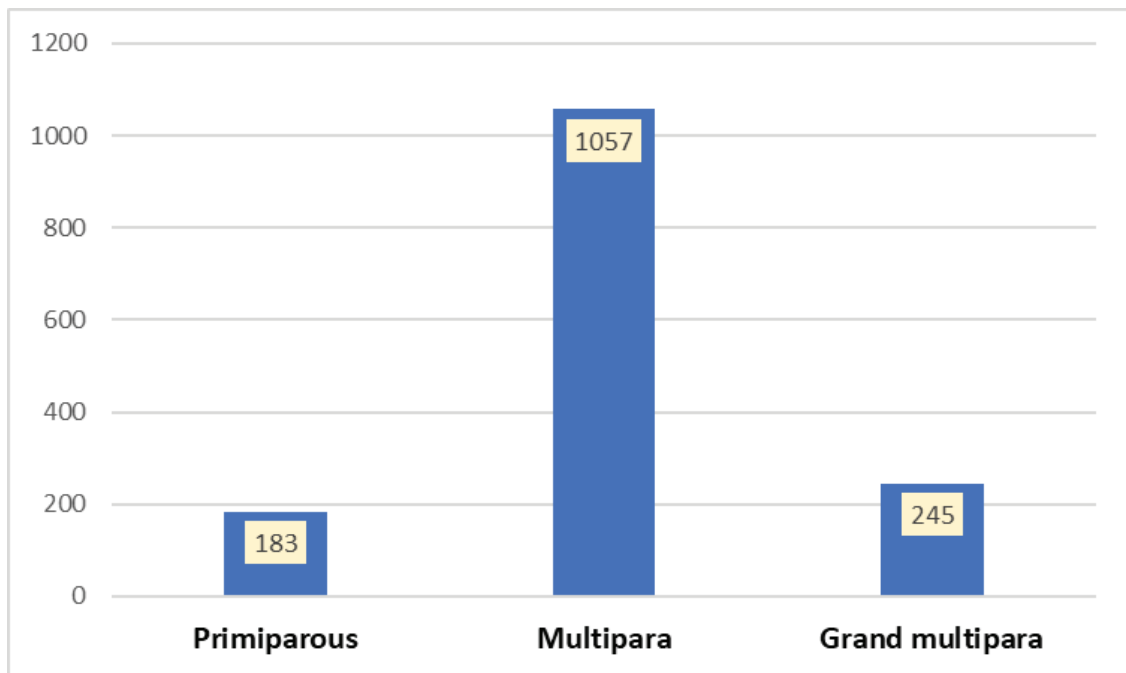


Fig: Parity and breast cancer (n=1485)

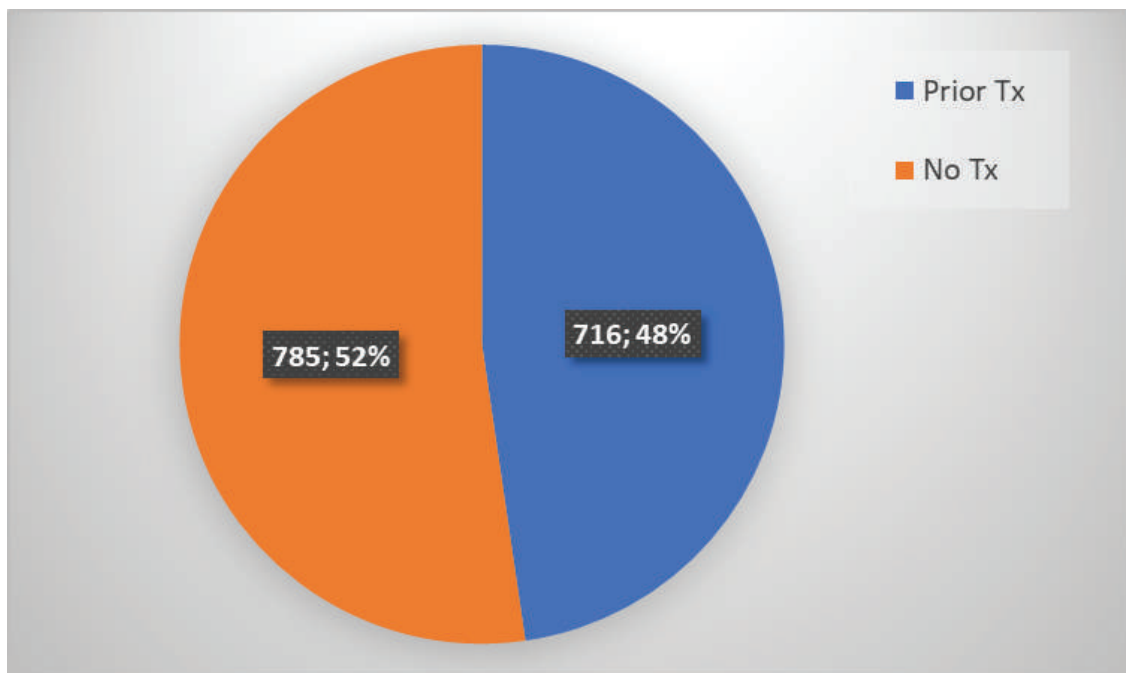


Fig: Case referral (Breast cancer)

J. GIT

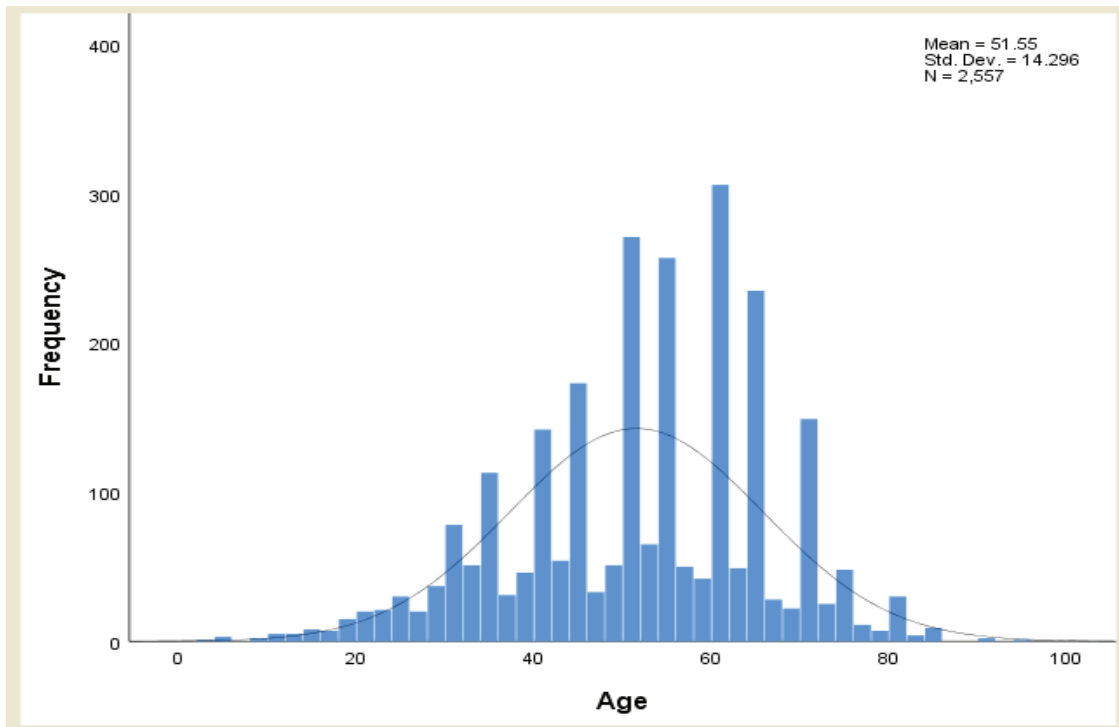


Fig: Age group distribution (GIT)
Mean age 51.55 years, SD± 14.296 years, M: F= 1.8:1.

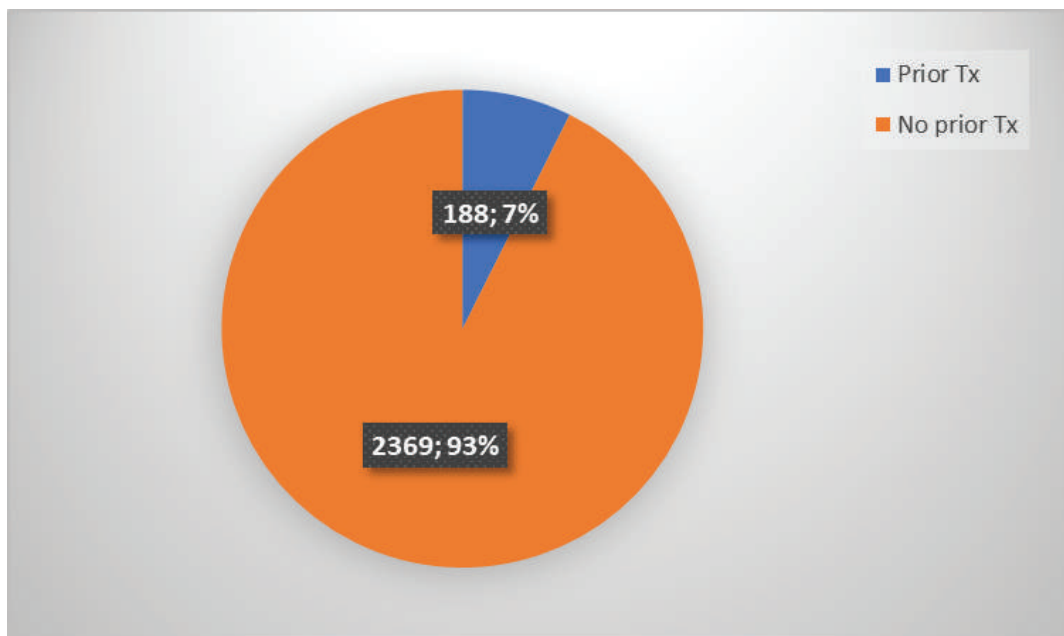
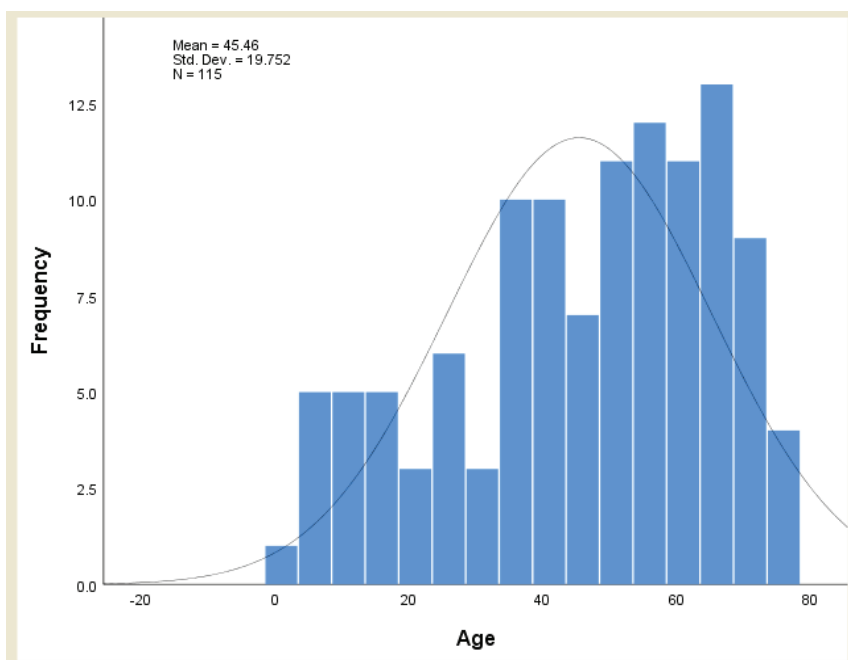


Fig: Case referral (GIT)

The primary site of GI cancer

Primary site of tumour	Sex		Total
	Male	Female	
Cervical oesophagus	82 (5.0)	53 (5.7)	135 (5.3)
Oesophagus	350 (21.4)	153 (16.6)	503 (19.7)
Gastric antrum	9 (0.6)	3 (0.3)	12 (0.5)
Stomach	302 (18.5)	157 (17.0)	459 (18.0)
Duodenum	6 (0.4)	2 (0.2)	8 (0.3)
Ileum	15 (0.9)	4 (0.4)	19 (0.7)
Cecum	10 (0.6)	6 (0.6)	16 (0.6)
Hepatic flexure	13 (0.8)	8 (0.9)	21 (0.8)
Colon	116 (7.1)	54 (5.8)	170 (6.6)
Rectum	236 (14.5)	153 (16.6)	389 (15.2)
Anal canal	28 (1.7)	12 (1.3)	40 (1.6)
Liver	305 (18.7)	139 (15.0)	444 (17.4)
Gall bladder	97 (5.9)	142 (15.4)	239 (9.3)
Bile duct	19 (1.2)	9 (1.0)	28 (1.1)
Ampulla of Vater	1 (0.1)	0 (0.0)	1 (0.0)
Head of the pancreas	7 (0.4)	7 (0.8)	14 (0.5)
Pancreas	37 (2.3)	22 (2.4)	59 (2.3)
Total	1633 (100.0)	924 (100)	2557 (100.0)

Bone



Fig; Age distribution
Mean age 45.46 years, SD ± 19.75 years, M: F= 1.7: 1

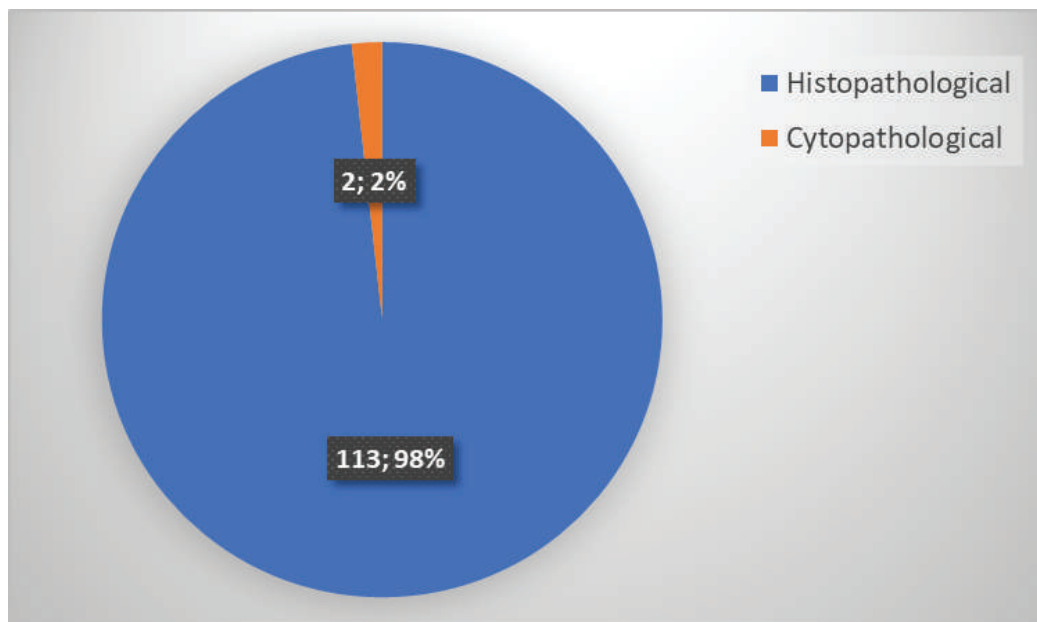


Fig: Diagnostic status (Bone cancer)

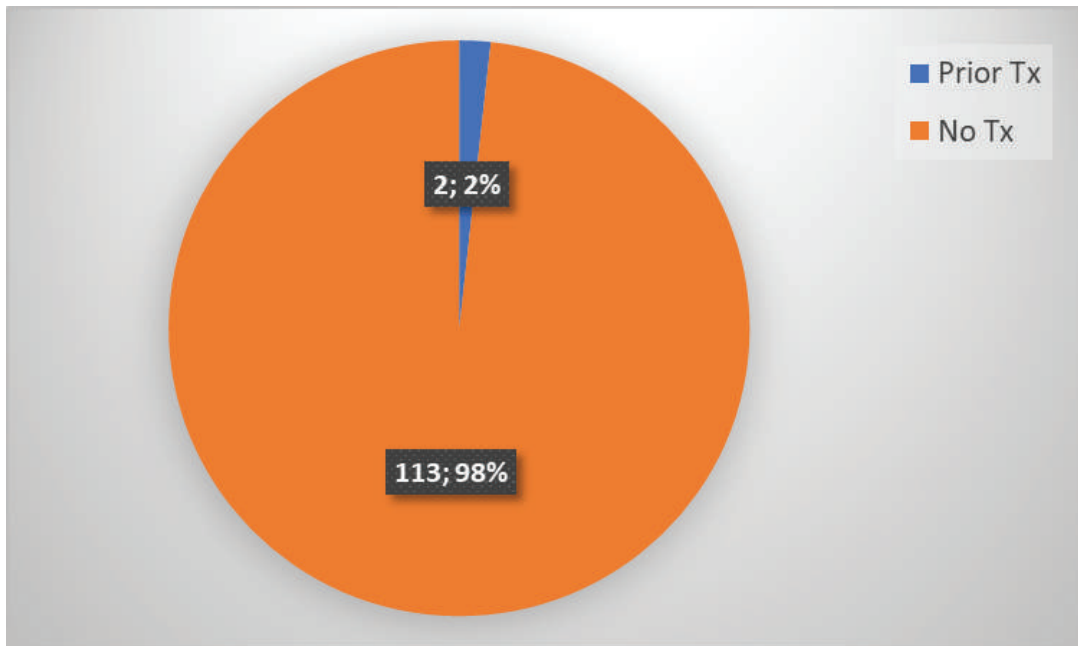


Fig: Case referral (Bone cancer)

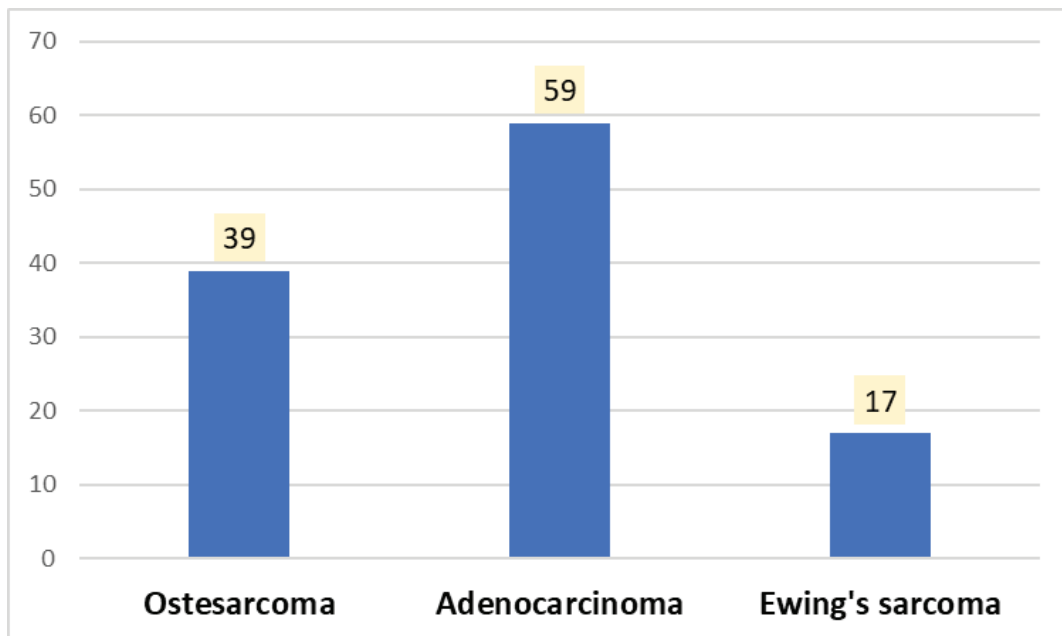


Fig: Histological pattern (Bone Cancer)

L. Female genital organs

Sites	Age group (yrs.)								Total
	<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
Ca vulva	00	01	04	05	09	22	10	04	55
Ca vagina	00	01	04	05	13	03	01	00	27
Ca cervix	00	03	71	355	569	392	168	33	1591
Ca uterus	00	03	03	10	27	41	10	04	98
Ca ovary	12	60	77	116	148	101	45	09	568
Placenta (GTN)	00	22	16	08	02	03	00	00	51
Total	12	90	175	499	768	562	234	50	2390

Cervical cancer

Table: Morphology of cervical cancer (N=1591)

Morphology	Frequency	Percentage
Squamous cell carcinoma	1304	82.0
Adenocarcinoma	120	7.5
Others	6	0.4
No HPR found	161	10.1
Total	1591	100.0

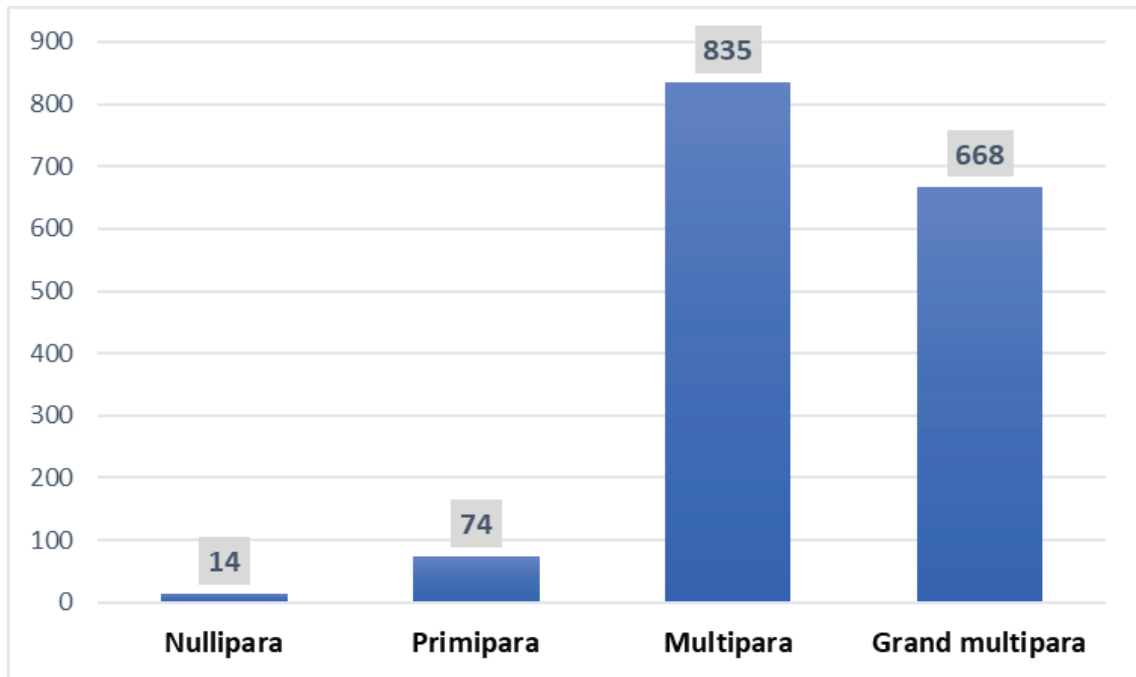


Fig: Parity and cervical cancer

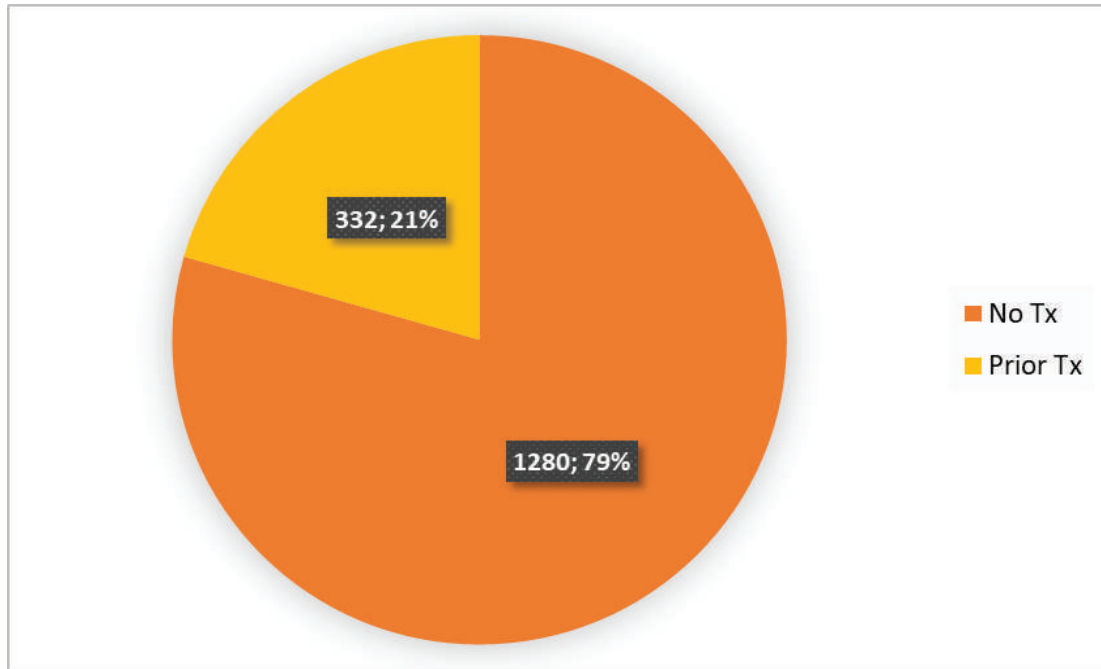


Fig: Case referral (Cx)

N. Ovary

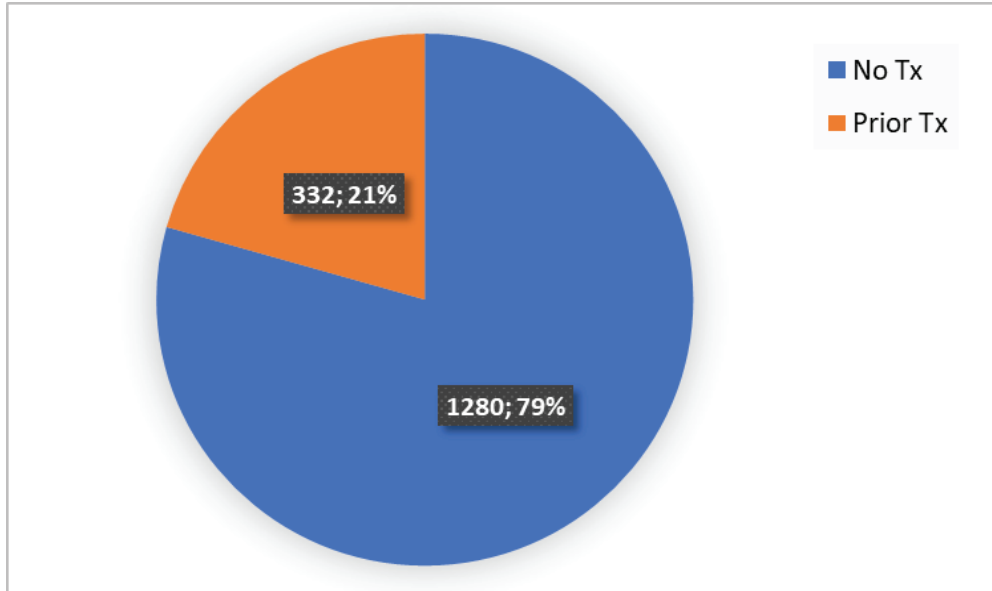


Fig: Case referral (Ovarian cancer)

Table: Morphological type (Ovarian ca)

Types	Frequency	Percentage
Papillary serous	255	44.9
Mucinous	77	13.6
Adenocarcinoma	65	11.4
Dysgerminoma	26	4.6
Germ cell tumour	18	3.2
Endometrioid	14	2.5
Undifferentiated	10	1.8
Krukenberg	9	1.6
Granulosa Cell Tumour	9	1.6
Teratoma	8	1.4
Dermoid	2	0.4
Primary peritoneal carcinoma	2	0.4
Clear cell carcinoma	1	0.2
HPR not found	72	12.7
Total	568	100.0

O. Male genital organs

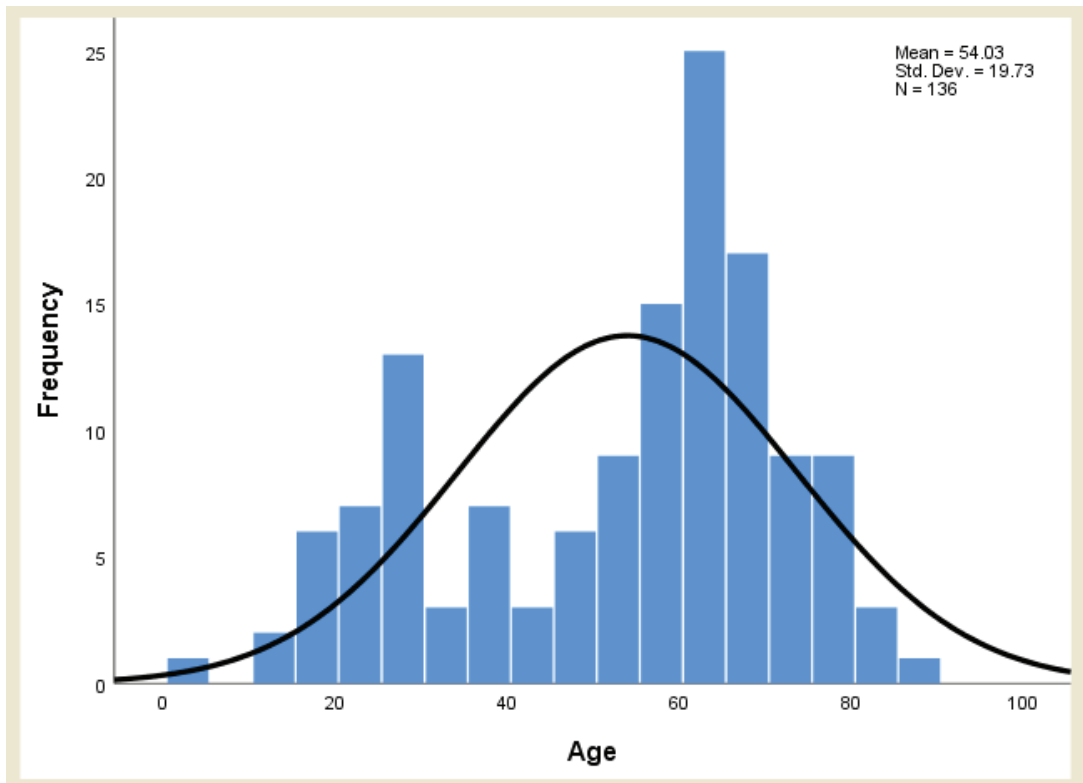


Fig: Age distribution
Mean age 54.03 years SD± 19.73 years

Site	Number	Percent
Prostate	84	61.8
Testis	41	30.1
Penis	11	8.1
Total	136	100.0

P. Prostate

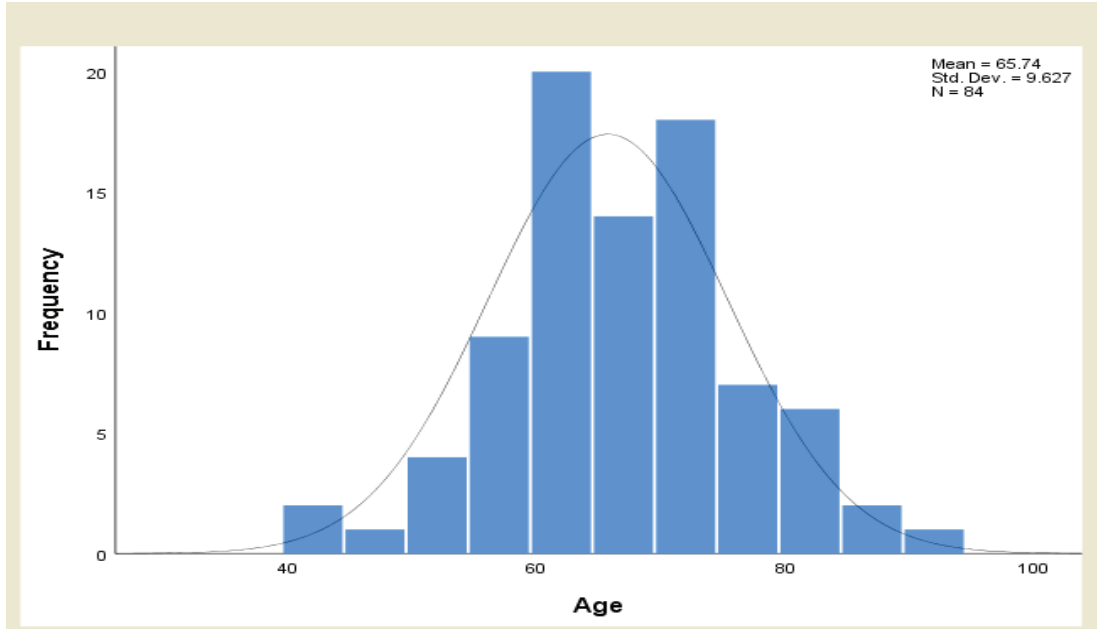


Fig: Age distribution of the patients of prostate cancer
Mean age 65.74 years, SD± 9.62

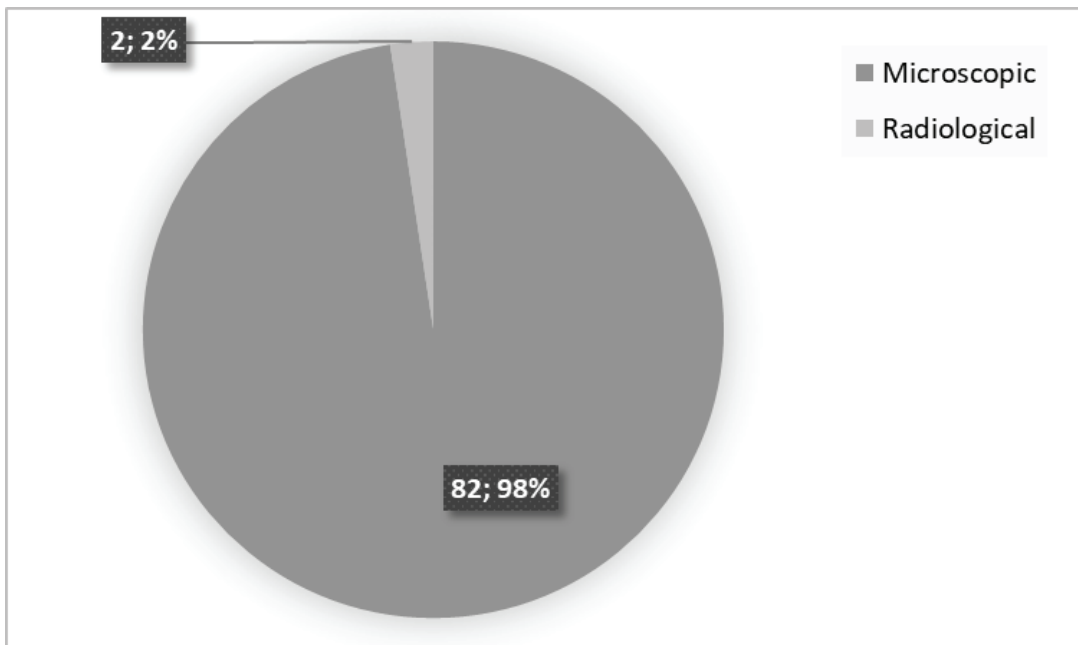


Fig: Diagnostic status (prostate)

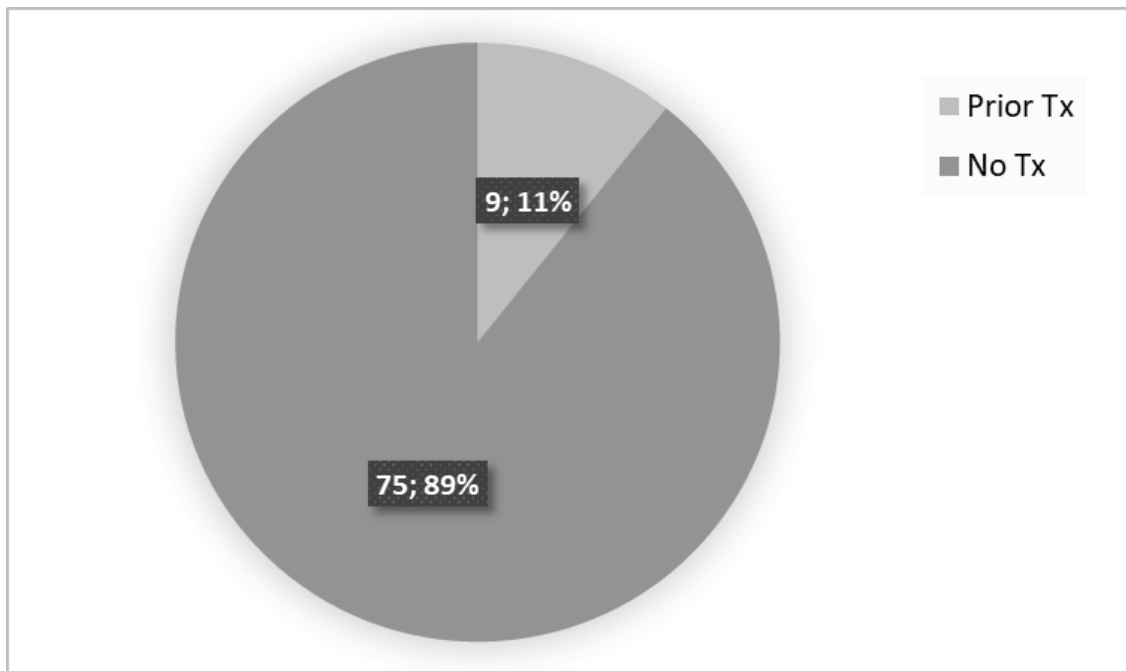


Fig: Case referral (prostate ca)

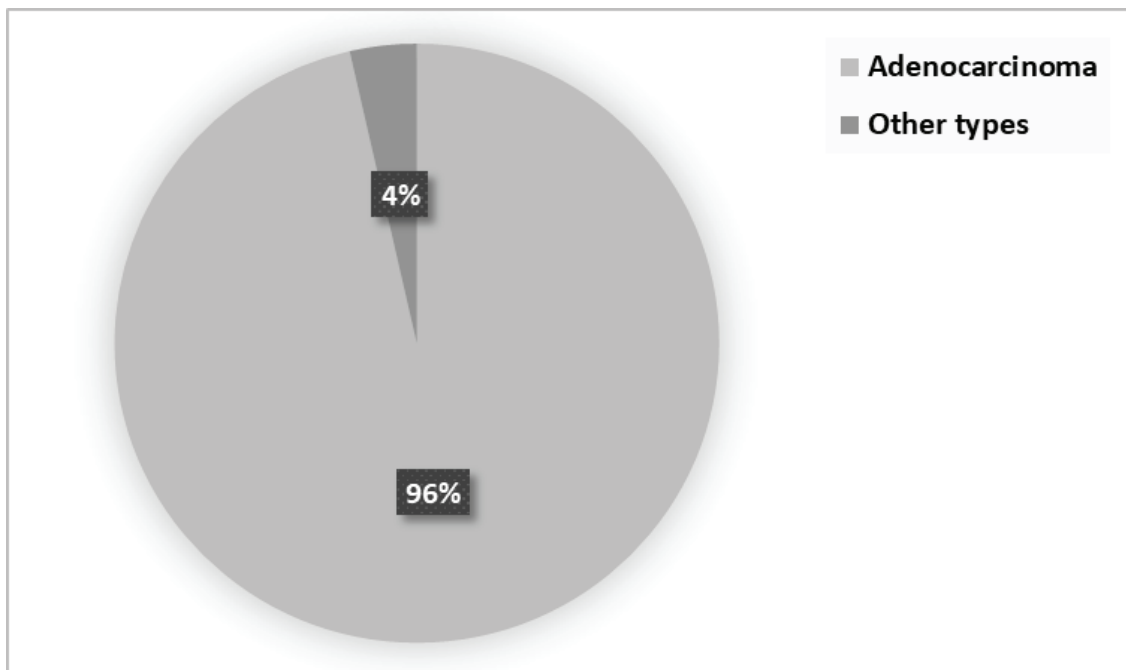


Fig: Morphological type (prostate ca)

Q. Kidney & related organs

Primary site of the tumour	Primary site		Total
	Sex		
	Male	Female	
Kidney	49 (26.9)	25 (33.3)	74 (28.8)
Bladder	133 (73.1)	50 (66.7)	183 (71.2)
Total	182 (100.0)	75 (100.0)	257 (100.0)

R. U. Bladder

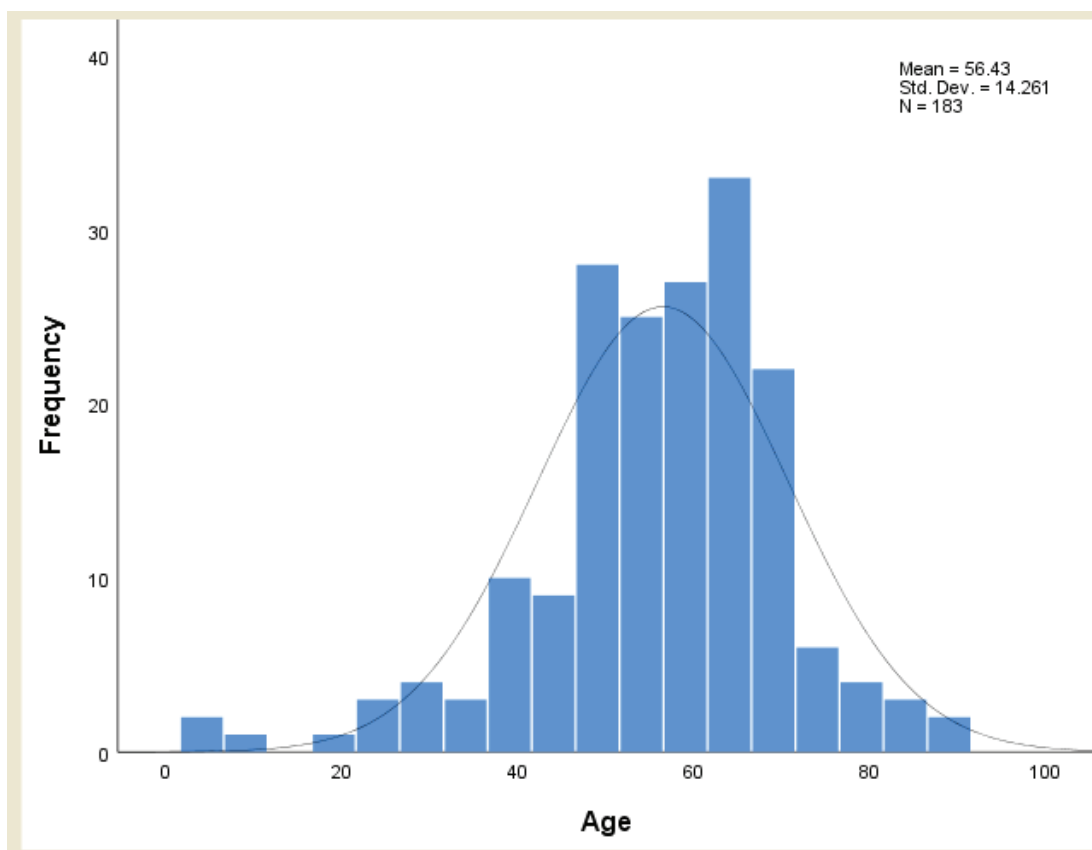


Fig: Age distribution of the patients of Urinary Bladder
Mean age 56.43 SD± 14.261, M: F= 2.66: 1

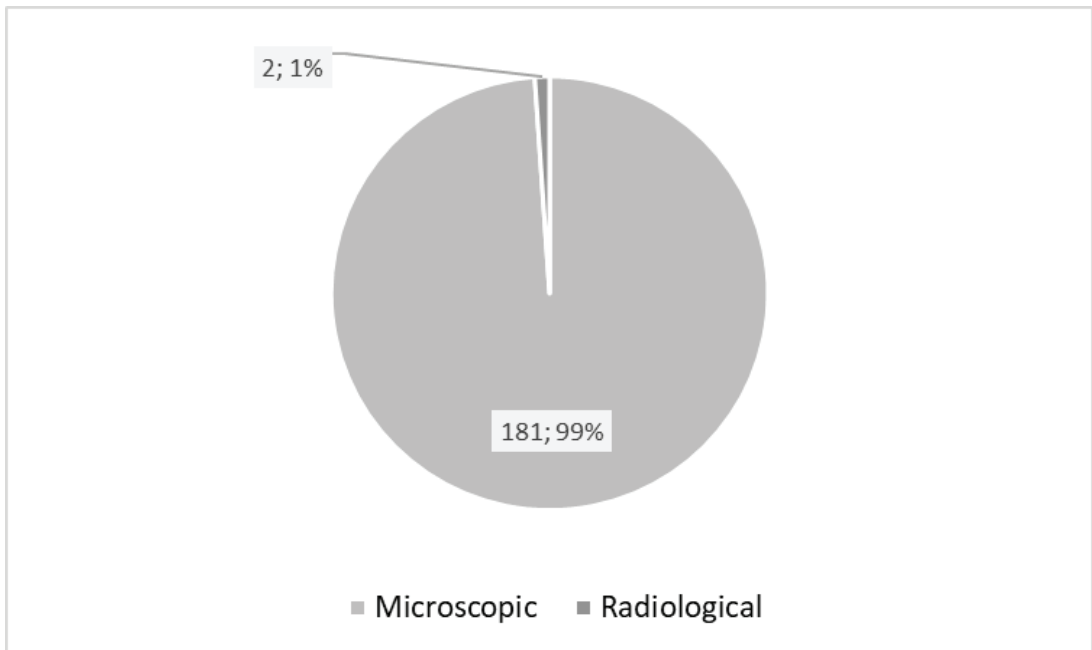


Fig: Diagnostic status (Urinary Bladder ca)

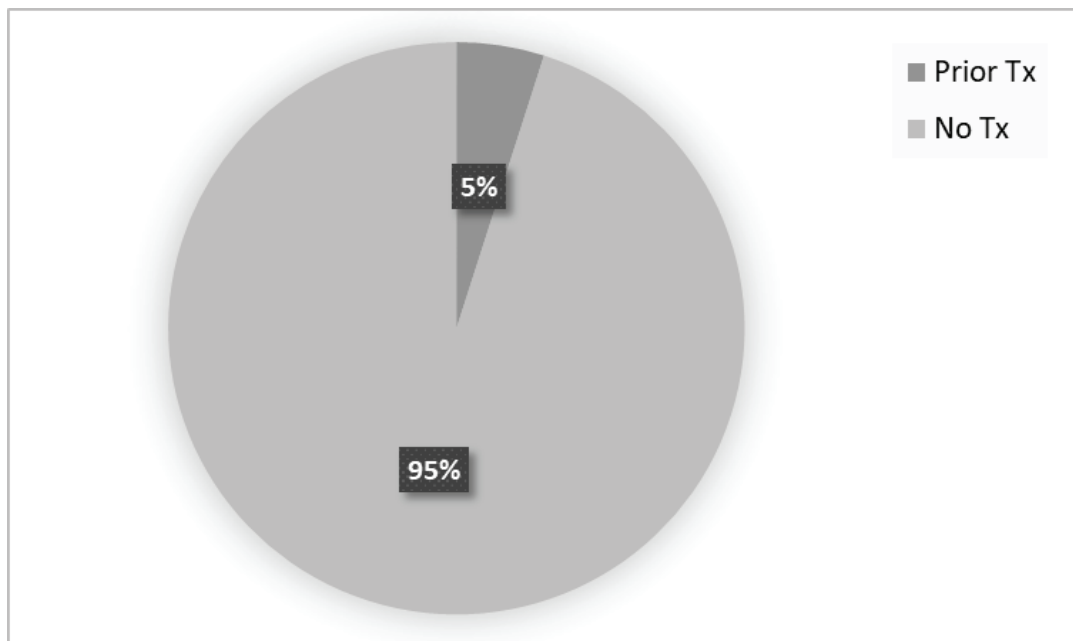


Fig: Case referral (Urinary Bladder ca)

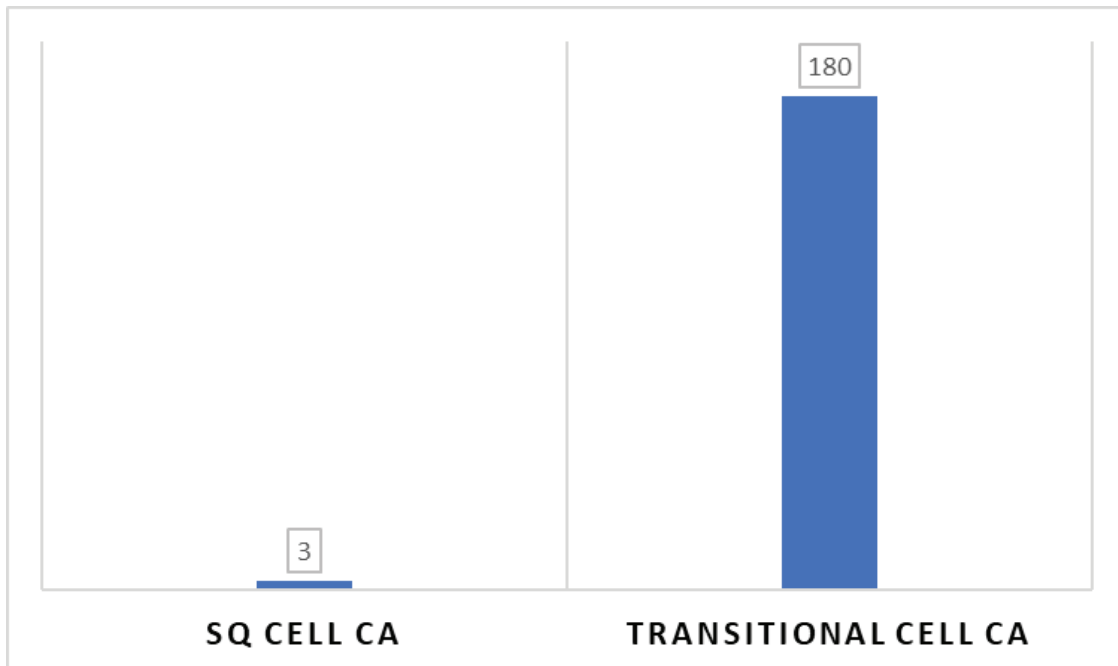


Fig: Morphological type of Urinary Bladder cancer

S. Lymphoma

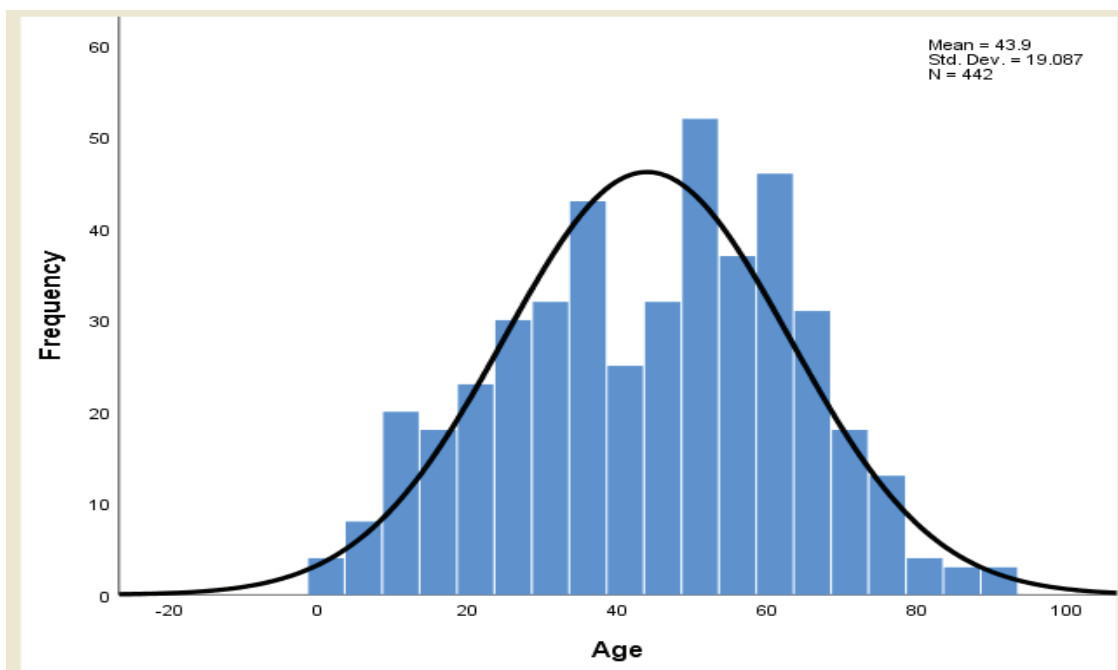


Fig: Age distribution (Lymphoma)
Mean age 43.9 SD± 19.08 years

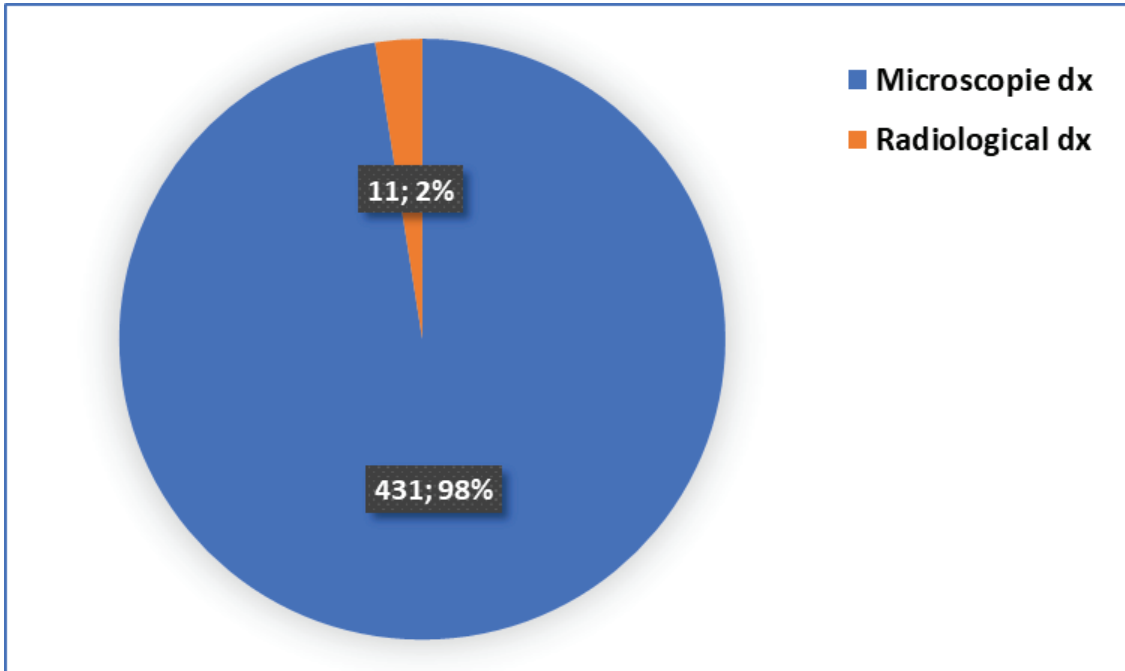


Fig: Diagnostic status (Lymphoma)

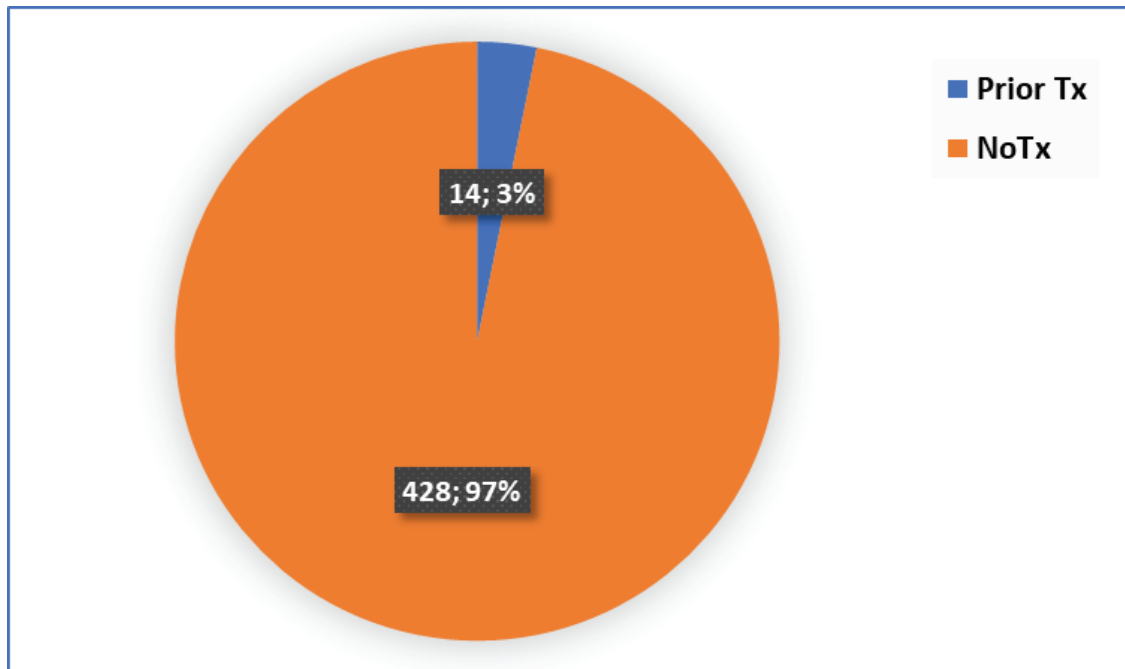


Fig: Case referral (Lymphoma)

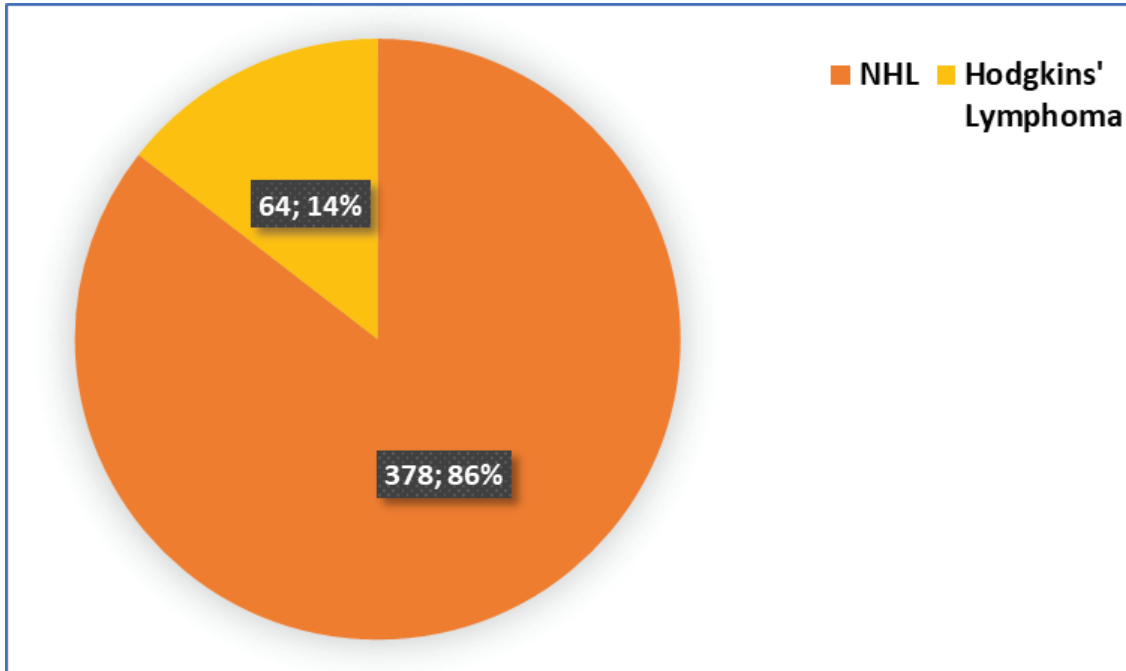


Fig: Morphological type ((Lymphoma)

APPENDICES

Male

ICD-O	Primary site of tumour (male)	Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C00	Lip	0	0	1	2	0	3	4	0	10
C01.9	Base of the tongue	0	0	0	3	11	3	4	4	25
C02.9	Tongue	0	1	4	18	37	37	29	10	136
C03.9	Gum	0	0	0	0	1	3	2	1	7
C04.9	Floor of the mouth	0	0	0	3	1	0	3	2	9
C05.0	Hard palate	0	0	2	0	0	1	0	0	3
C05.1	Soft palate	0	0	0	1	0	1	1	1	4
C05.2	Uvula	0	0	0	0	0	1	1	0	2
C05.9	Palate	0	0	0	2	1	5	5	0	13
C06.0	Cheek /buccal mucosa	1	0	6	28	37	51	24	6	153
C06.9	Oral cavity/Buccal cavity	0	1	2	3	7	8	3	2	26
C07.9	Parotid Gland	1	1	2	1	5	4	6	0	20
C08.0	Sub mandibular/maxillary gland	1	1	0	6	5	7	9	2	31
C09.0	Tonsillar fossa	0	0	0	0	1	2	1	0	4
C09.9	Tonsil	0	0	1	3	17	14	13	7	55
C10.0	Valecula	0	0	0	0	1	4	1	2	8
C10.4	Branchial cleft	0	0	0	2	5	16	9	4	36
C10.9	Oropharynx	0	0	0	0	2	3	3	0	8
C11.9	Nasopharynx	1	7	5	10	10	4	5	0	42
C12.9	Pyriiformsinus/fossa	0	2	1	6	20	27	19	4	79
C13.0	Cricoid	0	0	0	0	0	1	2	0	3
C13.1	Aryepiglottic fold	0	0	0	0	0	1	0	0	1
C13.9	Hypopharynx	0	0	0	0	1	5	3	1	10
C14.0	Pharynx	0	0	1	1	6	12	2	2	24
C15.0	Cervical oesophagus	5	7	4	5	18	22	16	5	82
C15.9	Oesophagus	1	0	5	21	85	114	96	28	350
C16.3	Gastric antrum	0	1	1	0	1	3	3	0	9
C16.9	Stomach	0	2	14	44	55	95	76	16	302
C17.0	Duodenum	0	0	0	0	2	2	2	0	6
C17.2	Ileum	1	0	2	1	5	2	3	1	15
C18.0	Cecum	1	1	0	3	0	4	1	0	10
C18.3	Hepatic flexure	0	0	0	3	3	2	4	1	13
C18.9	Colon	0	6	23	32	20	18	14	2	115
C20.9	Rectum	2	20	41	49	44	54	23	3	236
C21.1	Anal canal	0	2	2	5	11	5	3	0	28
C22.0	Liver	3	4	35	39	70	80	51	23	305
C22.9	Gall bladder	1	0	0	16	25	33	20	2	97
C24.0	Bile duct	0	0	4	7	4	0	2	2	19
C24.1	Ampula of vater	0	0	0	0	1	0	0	0	1
C25.0	Head of the pancreas	0	1	1	1	1	2	1	0	7
C25.9	Pancreas	0	2	2	6	5	16	4	2	37
C30.0	Nasal cavity	0	0	0	0	2	0	1	0	3
C30.1	Middle ear, inner ear	0	0	0	0	1	2	0	0	3
C31.0	Maxil lary sinuses	0	0	2	3	3	5	2	0	15
C31.2	Frontal sinuses	1	1	2	1	0	2	1	0	8
C32.0	Glottis, Vocal cord	0	0	1	4	17	18	24	3	67
C32.1	Supraglottis, Epiglottis,	2	0	1	8	40	40	36	9	136

C32.9	Larynx	1	1	6	13	36	43	29	8	137
C34.9	Bronchous	0	1	0	1	4	11	6	3	26
C34.9	Lung	2	15	36	73	267	482	430	131	1436
C38.3	Mediastinum	1	2	0	1	0	0	0	1	5
C38.4	Pleura	0	0	2	1	1	4	6	1	15
C40.0	Long bones & articular cartilages of upper limbs	0	0	1	1	0	0	0	0	2
C41.1	Mandible & Jaw	0	0	0	2	1	0	3	0	6
C41.2	Vertebra & Vertebral column	0	2	5	7	9	15	10	2	50
C41.9	Bones & articular cartilages	8	3	1	0	0	0	2	0	14
C42.0	Blood	57	55	34	27	16	19	9	4	221
C42.1	Bone marrow	0	10	0	1	4	1	1	0	17
C44.1	Skin of eye lid	0	0	0	0	1	0	2	0	3
C44.3	Skin of Face	0	0	0	0	0	0	1	1	2
C44.1	Skin of upper limb	0	0	0	1	0	0	0	0	1
C44.9	Skin	0	0	3	3	6	7	1	5	25
C48.1	Omentum, Pouch of Douglas, Cal de sac	0	0	0	0	0	2	1	0	3
C49.0	Connective tissue of scalp/face/neck	1	0	3	1	1	3	1	3	13
C49.1	Connective tissue of UL, arm, forearm, hand, shoulder, thumb, wrist	9	4	1	4	1	3	1	1	24
C49.2	Connective tissue of LL, foot, leg, thigh, hip, knee	15	34	12	10	15	23	9	5	123
C49.9	Connective tissue	1	1	0	1	1	0	1	0	5
C50.9	Breast	0	0	1	2	7	6	4	1	21
C60.9	Penis	0	0	0	2	4	2	2	1	11
C1.9	Prostate	0	0	0	2	5	29	32	16	84
C2.0	Undescended testis	0	1	0	0	0	0	0	0	1
C62.9	Testis	2	12	14	8	1	1	2	0	40
C64.9	Kidney	2	3	5	5	10	11	11	2	49
C67.9	Bladder	1	1	4	12	25	46	32	13	134
C69.0	Conjunctiva	0	0	0	1	2	1	0	0	4
C69.6	Orbit	2	1	0	0	3	3	1	0	10
C69.9	Eye	7	0	0	0	1	2	2	0	12
C70.9	Meninges (NOS)	0	0	0	1	1	1	0	0	3
C71.0	Cerebrum	0	0	0	0	0	1	0	0	1
C71.3	Parietal lobe	0	0	0	0	1	0	1	0	2
C71.4	Occipital lobe	0	0	1	0	0	1	0	0	2
C71.9	Brain	12	4	7	13	7	10	6	1	60
C73.9	Thyroid	1	2	3	7	3	6	6	1	29
C76.0	Cheek, Jaw, Nose	0	0	0	1	4	0	1	0	6
C76.1	Thorax	0	0	0	0	0	3	0	0	3
C76.2	Abdominal wall	1	0	0	0	0	0	0	0	1
C76.3	Pelvis	1	0	0	0	0	0	0	0	1
C77.0	LN of Head face & Neck	17	30	40	44	98	117	84	15	445
C77.3	LN of axilla	1	0	2	2	0	2	2	0	9
C77.4	Inguinal region	1	2	2	2	2	1	3	1	14
C77.5	Pelvic LN	1	0	0	1	1	2	0	0	5
C77.9	LN	22	23	33	49	45	54	40	16	282
C80.9	Unknown primary site	3	5	2	12	11	14	12	3	62
		190	272	383	648	1175	1658	1286	380	5992

	The primary site of tumour (female)	Age group								Total
		<=14	15-24	25-34	35-44	45-54	55-64	65-74	=>75	
C00	LIP	1	0	0	1	2	1	1	0	6
C1.9	Baseof the tongue	0	0	2	3	2	3	0	0	10
C2.9	Tongue	0	0	3	24	25	23	6	5	86
C3.9	Gum	0	0	0	0	2	1	0	1	4
C4.9	Floor of the mouth	0	1	0	0	2	3	3	1	10
C5.0	Hard palate	0	1	1	1	0	2	0	0	5
C5.1	Soft palate	1	0	0	2	2	1	0	0	6
C5.2	Uvula	0	1	1	4	3	13	2	0	24
C5.9	Palate	0	1	1	1	3	2	1	1	10
C6.0	Cheek /buccal mucosa	1	2	2	38	61	67	34	5	210
C6.1	Vestibule of mouth	0	0	0	1	0	0	0	0	1
C6.9	Oral cavity/Buccal cavity	0	0	3	8	11	15	5	0	42
C7.9	Parotid Gland	0	0	4	4	5	3	0	0	16
C8.0	Sub mandibular/maxillary gland	2	1	2	4	6	5	4	1	25
C9.0	Tonsillar fossa	0	0	0	0	0	1	0	1	2
C9.9	Tonsil	0	0	1	0	4	7	3	0	15
C10.0	Valecula	0	0	0	0	2	0	0	0	2
C10.4	Branchial cleft	0	0	0	0	1	1	1	0	3
C10.9	Oropharynx	0	0	0	0	1	0	0	1	2
C13.9	Nasopharynx	1	2	1	1	4	4	0	2	15
C12.9	Pyriiformsinus/fossa	1	0	0	2	9	6	1	0	19
C13.1	Aryepiglottic fold	0	0	0	0	1	0	0	0	1
C13.9	Hypopharynx	0	0	0	0	1	1	0	0	2
C14.0	Pharynx	0	0	0	0	1	3	0	0	4
C15.0	Cervical oesophagus	0	5	1	10	19	10	6	2	53
C15.9	Oesophagus	1	0	4	15	41	50	32	10	153

C16.3	Gastric antrum	0	0	1	1	0	1	0	0	3
C16.9	Stomach	1	3	10	35	40	38	25	5	157
C17.0	Duodenum	0	0	0	0	0	2	0	0	2
C17.2	Ileum	0	0	1	0	2	1	0	0	4
C18.0	Cecum	0	0	1	1	1	1	2	0	6
C18.3	Hepatic flexure	0	0	1	1	2	1	2	1	8
C18.9	Colon	0	1	11	15	10	14	3	0	54
C20.9	Rectum	1	11	36	19	40	33	11	2	153
C21.1	Anal canal	0	0	1	1	4	4	2	0	12
C22.0	Liver	2	1	9	25	43	39	19	1	139
C23.9	Gall bladder	2	2	8	24	43	38	21	4	142
C24.0	Bile duct	0	0	0	0	1	4	3	1	9
C25.0	Head of pancreas	1	0	0	2	3	1	0	0	7
C25.9	Pancreas	0	3	1	5	7	4	2	0	22
C25.9	Nasal cavity	1	1	1	0	0	0	0	0	3
C30.1	Middle ear, inner ear	0	0	0	0	2	1	0	0	3
C31.0	Maxillary sinuses	1	0	0	5	2	8	1	1	18
C31.1	Ethmoid sinuses	0	0	0	0	0	1	0	0	1
C31.2	Frontal sinuses	0	0	0	1	3	2	0	0	6
C32.0	Glottis, Vocal cord	0	1	0	2	1	0	0	0	4
C32.1	Supraglottis, Epiglottis,	0	0	1	2	4	5	4	1	17
C32.9	Larynx	0	0	0	0	1	1	3	0	5
C34.9	Bronchus	0	0	0	1	3	0	0	0	4
C34.9	Lung	1	6	9	40	68	94	40	18	276
C38.4	Pleura	0	1	0	3	2	5	0	0	11
C38.4	Mandible & Jaw	0	0	0	2	1	2	2	1	8
C41.2	Vertebra & Vertebral column	0	0	2	6	6	7	5	0	26
C41.9	Bones & articular cartilages	4	2	0	1	1	0	0	0	8
C42.0	Blood	26	18	20	12	9	9	2	0	96
C42.1	Bone marrow	2	1	1	1	2	1	0	0	8

C42.1	Skin of lip	0	0	2	0	0	1	0	0	3
C42.2	Skin of Face	0	0	0	1	0	0	0	0	1
C44.0	Skin	1	0	2	4	2	7	3	0	19
C48.1	Omentum, Pouch of Douglas, Ca de sac	0	0	0	0	2	1	0	0	3
C49.0	Connective tissue of scalp/face/neck	1	0	2	3	2	2	1	0	11
C49.0	Connective tissue of UL, arm, forearm, hand, shoulder, thumb, wrist	3	6	0	4	3	2	0	0	18
C49.2	Connective tissue of LL, foot, leg, thigh, hip, knee	12	12	6	8	4	8	0	0	50
C49.9	Lymphatics/Lymphoma	0	0	1	0	0	0	0	0	1
C49.9	Connective tissue	1	0	0	1	2	1	0	0	5
C50.0	Breast (Nipple/areola)	0	0	0	2	2	1	0	0	5
C50.9	Breast	1	33	230	504	428	200	63	16	1475
C52.9	Vagina	0	0	1	3	3	3	4	0	14
C53.9	Cervix	1	8	65	181	291	205	86	17	854
C55.9	Uterus	0	2	11	14	20	6	3	2	58
C56.9	Ovary	5	14	38	35	54	25	15	2	188
C57.4	Adenexa	3	0	6	7	8	5	2	1	32
C57.9	Female genital tract	0	0	0	0	0	0	1	1	2
C64.9	Kidney	4	3	1	4	4	5	3	1	25
C67.9	Bladder	2	1	3	2	17	14	9	1	49
C69.4	Eye ball	1	0	0	0	0	0	0	0	1
C69.6	Orbit	0	1	2	1	0	0	0	0	4
C69.9	Eye	0	0	0	1	1	2	1	0	5
C70.9	Meninges (NOS)	0	0	0	0	0	1	0	0	1
C71.9	Brain	10	2	6	12	2	4	2	1	39
C73.9	Thyroid	0	5	23	11	11	8	6	1	65
C76.0	Cheek, Jaw, Nose	0	0	1	1	2	0	3	1	8
C76.2	Abdominal wall	0	0	1	1	1	1	1	0	5
C76.3	Pelvis	0	0	1	0	0	0	0	0	1
C77.0	LN of Head face & Neck	13	14	19	27	35	31	15	3	157
C77.3	LN of axilla	0	0	0	5	6	0	2	0	13

C77.4	Inguinal region	1	0	0	1	2	0	2	0	6
C77.5	Pelvic LN	0	1	1	1	1	2	0	0	6
C77.9	LN	7	15	14	14	35	21	6	3	115
C80.9	Un known primary site	0	2	6	6	5	8	6	1	34
		116	184	582	1178	1452	1103	480	116	5211

Primary site of tumour	Male	Female	Total	Primary site of tumour	Male	Female	Total
LIP	10	6	16	Adenocarcinoma	0	1	1
Sq cell ca	8	6	14	Mucoepidermoid ca	18	12	30
Malignant melanoma	1	0	1	Sub mandibular/maxillary gland	31	25	56
Sarcoma	1	0	1	Sq cell ca	29	24	53
Base of the tongue	25	10	35	Adenocarcinoma	2	1	3
Sq cell ca	25	10	35	Tonsillar fossa	4	2	6
Tongue	136	86	222	Sq cell ca	4	2	6
Sq cell ca	136	85	221	Tonsil	55	15	70
Adenocarcinoma	0	1	1	Small cell ca	0	1	1
Gum	7	4	11	Sq cell ca	55	14	69
Sq cell ca	6	3	9	Valecula	8	2	10
Adenocarcinoma	1	0	1	Sq cell ca	7	2	9
Cholangiocarcinoma/Bile duct carcinoma	0	1	1	Adenocarcinoma	1	0	1
Floor of the mouth	9	10	19	Branchial cleft	36	3	39
Sq cell ca	8	10	18	Small cell type	1	0	1
Adenocarcinoma	1	0	1	Sq cell ca	33	3	36
Hard palate	3	5	8	Adenocarcinoma	2	0	2
Sq cell ca	1	3	4	Oropharynx	8	2	10
Basal cell ca	0	1	1	Sq cell ca	8	2	10
Adenocarcinoma	2	0	2	Nasopharynx	42	15	57
Ewing's sarcoma	0	1	1	Malignant tumour	1	0	1
Soft palate	4	6	10	Sq cell ca	41	15	56
Sq cell ca	3	6	9	Pyriformsinus/fossa	79	19	98
Sarcoma	1	0	1	Sq cell ca	76	19	95
Uvula	2	24	26	Adenocarcinoma	3	0	3
Sq cell ca	1	22	23	Cricoid	3		3
Adenocarcinoma	1	2	3	Sq cell ca	3		3
Palate	13	10	23	Aryepiglottic fold	1	1	2
Sq cell ca	13	9	22	Sq cell ca	1	1	2
Adenocarcinoma	0	1	1	Hypopharynx	10	2	12
Cheek/buccal mucosa	153	210	363	Sq cell ca	10	2	12
Sq cell ca	151	209	360	Pharynx	24	4	28
Basal cell ca	1	0	1	Sq cell ca	24	4	28
Adenocarcinoma	0	1	1	Cervical oesophagus	82	53	135
Mucoepidermoid ca	1	0	1	Small cell ca	1	0	1
Vestibule of mouth		1	1	Sq cell ca	69	47	116
Sq cell ca		1	1	Adenocarcinoma	7	5	12
Oral cavity/Buccal cavity	26	42	68	Sarcoma	1	0	1
Sq cell ca	24	42	66	Ependymoma	1	0	1
Adenocarcinoma	2	0	2	Hodgkins' Lymphoma	3	1	4
Parotid Gland	20	16	36	Oesophagus	350	153	503
Malignant tumour	0	1	1	Sq cell ca	325	141	466
Sq cell ca	2	2	4	Adenocarcinoma	25	12	37

Primary site of tumour	Male	Female	Total	Primary site of tumour	Male	Female	Total
Gastric antrum	9	3	12	Cholangiocarcinoma/Bile duct carcinoma	1	0	1
Sq cell ca	5	1	6	Bile duct	19	9	28
Adenocarcinoma	4	2	6	Cholangiocarcinoma/Bile duct carcinoma	19	9	28
Stomach	302	157	459	Ampulla of Vater	1		1
Malignant tumour	129	62	191	Adenocarcinoma	1		1
Sq cell ca	26	11	37	Head of pancreas	7	7	14
Adenocarcinoma	147	84	231	Sq cell ca	2	1	3
Duodenum	6	2	8	Adenocarcinoma	5	5	10
Sq cell ca	1	2	3	Ewing's sarcoma	0	1	1
Adenocarcinoma	5	0	5	Pancreas	37	22	59
Ileum	15	4	19	Sq cell ca	2	0	2
Malignant tumour	0	1	1	Adenocarcinoma	33	22	55
Sq cell ca	11	2	13	Cholangiocarcinoma/Bile duct carcinoma	1	0	1
Adeno carcinoma	2	1	3	Sarcoma	1	0	1
Osteosarcoma	1	0	1	Nasal cavity	3	3	6
Chondrosarcoma	1	0	1	Malignant tumour	0	1	1
Cecum	10	6	16	Sq cell ca	2	2	4
Sq cell ca	1	2	3	Adenocarcinoma	1	0	1
Adenocarcinoma	9	4	13	Middle ear, inner ear	3	3	6
Hepatic flexure	13	8	21	Sq cell ca	3	3	6
Sq cell ca	8	6	14	Maxillary sinuses	15	18	33
Adenocarcinoma	5	1	6	Sq cell ca	15	16	31
Cholangiocarcinoma/Bile duct carcinoma	0	1	1	Adenocarcinoma	0	1	1
Colon	115	54	169	Adenocystic ca	0	1	1
Malignant tumour	2	0	2	Ethmoid sinuses		1	1
Sq cell ca	11	1	12	Adenocarcinoma		1	1
Adenocarcinoma	102	53	155	Frontal sinuses	8	6	14
Rectum	236	153	389	Sq cell ca	5	2	7
Malignant tumour	2	0	2	Adenocarcinoma	1	4	5
Sq cell ca	24	9	33	Glioma	1	0	1
Adenocarcinoma	209	144	353	Astrocytoma	1	0	1
Duct cell ca	1	0	1	Glottis, Vocal cord	67	4	71
Anal canal	28	12	40	Sq cell ca	67	4	71
Sq cell ca	18	6	24	Supraglottis, Epiglottis	136	17	153
Adenocarcinoma	10	6	16	Sq cell ca	133	16	149
Liver	305	139	444	Adenocarcinoma	3	1	4
Papillary ca	2	0	2	Larynx	137	5	142
Sq cell ca	2	1	3	Small cell ca	1	0	1
Hepatocellular ca	301	138	439	Sq cell ca	134	5	139
Gall bladder	97	142	239	Adenocarcinoma	2	0	2
Adenoma	0	1	1	Bronchus	26	4	30
Sq cell ca	2	0	2	Malignant tumour	0	1	1
Transitional cell ca	0	1	1	Sq cell ca	24	3	27
Adenocarcinoma	94	140	234	Adenocarcinoma	2	0	2

Primary site of tumour	Male	Female	Total	Primary site of tumour	Male	Female	Total
Lung	1436	276	1712	Acute Myeloid/ granulocytic Leukemia	2	6	8
Malignant tumour	4	0	4	Chronic Myeloid /granulocytic Leukemia	6	0	6
Large cell ca	3	0	3	Skin of lip		3	3
Small cell ca	77	14	91	Sq cell ca		3	3
Sq cell ca	995	172	1167	Skin of eye lid	3		3
Adenocarcinoma	357	90	447	Sq cell ca	1		1
Mediastinum	5		5	Basal cell ca	2		2
Malignant tumour	1		1	Skin of Face	2	1	3
Sq cell ca	3		3	Sq cell ca	1	1	2
Adenocarcinoma	1		1	Basal cell ca	1	0	1
Pleura	15	11	26	Skin of upper limb	1		1
Sq cell ca	9	10	19	Sq cell ca	1		1
Adenocarcinoma	6	1	7	Skin	25	19	44
Long bones & articular cartilages of upper limbs	2		2	Epithelial carcinoma	1	0	1
Giant cell type	1		1	Sq cell ca	7	6	13
Adenocarcinoma	1		1	Basal cell ca	17	12	29
Mandible & Jaw	6	8	14	Adenocarcinoma	0	1	1
Sq cell ca	6	7	13	Omentum, Pouch of Douglas, Caldeasac	3	3	6
Adenocarcinoma	0	1	1	Sq cell ca	1	0	1
Vertebra & Vertebral column	50	26	76	Adenocarcinoma	2	3	5
Sq cell ca	13	4	17	Connective tissue of scalp/face/neck	13	11	24
Adenocarcinoma	36	21	57	Sq cell ca	10	7	17
Hepatocellular ca	0	1	1	Basal cell ca	2	1	3
Acute Myeloid/ Granulocytic Leukemia	1	0	1	Sarcoma	0	1	1
Bones & articular cartilages	14	8	22	Liposarcoma	0	1	1
Sq cell ca	1	2	3	Ewing's sarcoma	1	0	1
Chondrosarcoma	1	1	2	Hodgkin's Lymphoma	0	1	1
Ewing's sarcoma	12	5	17	Connective tissue of UL, arm, forearm, hand, shoulder, thumb, wrist	24	18	42
Blood	221	96	317	Malignant tumour	1	0	1
Multiple myeloma	3	2	5	Sq cell ca	2	4	6
Leukemia	24	7	31	Adenocarcinoma	2	0	2
Acute Lymphoblastic Leukemia	111	42	153	Sarcoma	3	2	5
Acute Myeloid/granulocytic Leukemia	49	30	79	Rhabdomyosarcoma	1	1	2
Chronic Myeloid/ Granulocytic Leukemia	34	15	49	Osteosarcoma	11	11	22
Bone marrow	17	8	25	Ewing's sarcoma	4	0	4
Acute Lymphoblastic Leukemia	9	2	11				

Primary site of tumour	Male	Female	Total	Primary site of tumour	Male	Female	Total
Connective tissue of LL,foot,leg,thigh,hip,knee	110	50	160	Adenocarcinoma		9	9
Spindle cell ca	0	1	1	Adeno cystic ca		3	3
Sq cell ca	12	3	15	Dysgerminoma		1	1
Adenocarcinoma	3	0	3	Female genital tract		2	2
Sarcoma	7	2	9	Sq cell ca		1	1
Fibrosarcoma	5	3	8	Adenocarcinoma		1	1
Fibrous histiocytoma	2	0	2	Penis	11		11
Liposarcoma	1	1	2	Sq cell ca	9		9
Rhabdomyosarcoma	3	5	8	Adenocarcinoma	2		2
Osteosarcoma	74	34	108	Prostate	84		84
Chondrosarcoma	1	0	1	Sq cell ca	1		1
Ewing's sarcoma	2	1	3	Adenocarcinoma	83		83
Lymphatics/Lymphoma		1	1	Undescended testis	1		1
Sq cell ca		1	1	Sarcoma	1		1
Connective tissue	5	5	10	Testis	40		40
Sq cell ca	4	3	7	Giant cell type	1		1
Dermatofibroma	0	1	1	Malignant melanoma	1		1
Embryonal sarcoma	1	1	2	Seminoma	38		38
Breast (Nipple/areola)		5	5	Kidney	49	25	74
Duct cell ca		5	5	Transitional cell ca	1	0	1
Breast	21	1475	1496	Renal cell ca	48	23	71
Sq cell ca	0	2	2	Nephroblastoma	0	2	2
Duct cell ca	21	1473	1494	Bladder	134	49	183
Vagina	2	14	16	Sq cell ca	3	0	3
Sq cell ca	1	14	15	Transitional cell ca	131	49	180
Adenocarcinoma	1	0	1	Conjunctiva	4		4
<u>Cervix</u>	<u>8</u>	<u>854</u>	<u>862</u>	Sq cell ca	4		4
Sq cell ca	8	840	848	Eye ball		1	1
Adenocarcinoma	0	14	14	Retinoblastoma		1	1
Uterus		58	58	Orbit	10	4	14
Sq cell ca		49	49	Malignant tumour	1	0	1
Adenocarcinoma		9	9	Sq cell ca	8	4	12
Ovary	2	141	143	Adenocarcinoma	1	0	1
Malignant tumour	0	1	1	Eye	12	5	17
Sq cell ca	1	71	72	Sq cell ca	2	0	2
Adenocarcinoma	1	69	70	Retinoblastoma	10	5	15
Adnexa	1	31	32	Meninges (NOS)	3	1	4
Malignant tumour	0	1	1	Meningioma	3	1	4
Sq cell ca	1	16	17	Cerebrum	1		1
Adenocarcinoma	0	9	9	Sq cell ca	1		1
Adeno cystic ca	0	5	5	Parietal lobe	2		2
<u>Tube-ovarian & Uterovarian</u>		<u>47</u>	<u>47</u>	Sq cell ca	1		1
Malignant tumour		3	3	Adenocarcinoma	1		1
Papillary ca		1	1	Occipital lobe	2		2
Sq cell ca		30	30	Sq cell ca	2		2

Primary site of tumour		Female	Total	Primary site of tumour	Male	Female	Total
Brain	60	39	99	Inguinal region	14	6	20
Sq cell ca	1	0	1	Sq cell ca	9	3	12
Glioma	16	9	25	Adenocarcinoma	1	3	4
Ependymoma	2	1	3	Sarcoma	3	0	3
Astrocytoma	27	21	48	Ewing's sarcoma	1	0	1
Glioblastoma	7	4	11	Pelvic LN	5	6	11
Medulloblastoma	1	1	2	Sq cell ca	4	3	7
Neuroblastoma	6	3	9	Adenocarcinoma	1	2	3
Thyroid	29	65	94	Teratoma	0	1	1
Papillary ca	29	63	92	LN	282	115	397
Sq cell ca	0	2	2	Adenocarcinoma	1	0	1
Cheek, Jaw, Nose	6	8	14	Neuroblastoma	1	0	1
Sq cell ca	6	7	13	NHL	265	113	378
Basal cell ca	0	1	1	Hodgkin's Lymphoma	15	2	17
Thorax	3		3	Unknown primary site	62	34	96
Sq cell ca	3		3	Malignant tumour	2	0	2
Abdominal wall	1	5	6	Sq cell ca	45	23	68
Sq cell ca	0	1	1	Adenocarcinoma	15	11	26
Adenocarcinoma	1	4	5				
Pelvis	1	1	2				
Sq cell ca	1	1	2				
LN of Head face & Neck	445	157	602				
Adenoma	1	0	1				
Malignant tumour	3	1	4				
Giant cell type	1	1	2				
Large cell ca	1	1	2				
Spindle cell ca	3	3	6				
Small cell ca	4	0	4				
Sq cell ca	302	99	401				
Adenocarcinoma	69	31	100				
Cholangiocarcinoma/Bile duct carcinoma	1	0	1				
Granulosa cell tumour	1	0	1				
Sarcoma	2	3	5				
Fibrosarcoma	7	1	8				
Fibrous histiocytoma	6	1	7				
Ewing's sarcoma	10	9	19				
Hodgkin's Lymphoma	34	7	41				
LN of axilla	9	13	22				
Sq cell ca	6	8	14				
Adenocarcinoma	2	5	7				
Hodgkin's Lymphoma	1	0	1				

