

National Scenario of Cancer Incidence in Nepal - 2017

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ABSTRACT

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Cancer is a disease caused by an uncontrolled division of abnormal cells in a part of the body, which is a major public health problem in the world. This study aims to determined different types of cancer incidence in Nepal. In this descriptive study used the primary and secondary data of National Cancer Registry Program (NCRP) from January first to December last of 2017. NCRP currently includes 12 major hospitals of the nation where diagnostic and treatment facilities were available. The most common cancer in Nepal for 2017 was C34 lung 12.81 % followed by C53 cervical 8.82%, C50 breast 8.71 5.10%, C16 stomach 5.10% and C23 gall bladder 3.99%. and ovarian cancer. Among males, C34 lung cancer 15.93% was the most common followed by C50 stomach 6.56%, C67 bladder 4.88%, C32 larynx 4.13% and liver & intrahepatic bile duct 3.71%. Among females, C53 cervical cancer 16.4% followed by C50 breast 15.98%, C34 lung 10.04%, C56 ovary 7.05% and C23 gall bladder 5.04%. Cancer incidence was yearly increasing in Nepal and thus comprehensive programmed on cancer prevention, early detection, control and treatment should be carried out in national context.

Keywords : Cancer, Incidence, National, Registry

I. INTRODUCTION

Cancer is the second leading cause of death globally, accounting for an estimated 9.6 million deaths, or one in six deaths, in 2018. Lung, prostate, colorectal, stomach and liver cancer are the most common types of cancer in men, while breast, colorectal, lung, cervical and thyroid cancer are the most common among women (GLOBO CAN 2018). Globally, about 1 in 6 deaths is due to cancer. Approximately 70% of

deaths from cancer occur in low- and middle-income countries. Asia accounts for 60% of the world population and half the global burden of cancer. The incidence of cancer cases is estimated to increase from 6.1 million in 2008 to 10.6 million in 2030. According to WHO, India has a cancer mortality rate of 79 per 100,000 deaths and accounts for over 6 percent of total deaths. These numbers are very close to those of high-income countries. This study includes data from twelve major hospital of the nation and this study can

be used to infer an overall situation of cancer in Nepal for 2017. Various studies showed that cancer disease is increasing day by day and there are different yearly reports about the prevalence of cancer disease. Therefore the aim of this study is to hit up on the current scenario of cancer and relevant details in Nepal for 2017.

Table 1

Year wise new cancer cases in Nepal (2003-2017) by sex			
Years	Total cases	Male	Female
2003	3251	1488 (46%)	1763 (54%)
2004	4201	2030 (48%)	2171 (52%)
2005	4397	2057 (47%)	2340 (53%)
2006	4908	2325 (47%)	2583 (53%)
2007	6035	2758 (46%)	3277 (54%)
2008	5949	2702 (45%)	3247 (56%)
2009	6199	2970 (48%)	3229 (52%)
2010	6773	3192 (47.1%)	3581(52.9%)
2011	7088	3295 (46.5%)	3793(53.5%)
2012	7212	3291(45.6%)	3921(54.4%)
2013	8729	4011(46.0%)	4718(54.0%)
2014	9036	4014 (44.4%)	5022(55.6%)
2015	9718	4483 (46.1%)	5235 (53.9%)
2016	10117	4697 (46.4%)	5420 (53.6%)
2017	10516	4939 (46.97%)	5577 (53.97%)

II. MATERIALS AND METHODS

This was a descriptive study with primary and secondary data of new cancer are recorded and collected in different co-action hospital from first January to December last 2017. The data were entry, edit, and coded based on ICD-O3 rd and ICD -10, published by IARC/WHO and the analysis was carried out by using SPSS 19.0.

Data Sources

The following hospitals are the main sources of data collection:

1. Bhaktapur Cancer Hospital, Bhaktapur
2. Bir Hospital , Mahaboudha,Kathmandu
3. Manipal Medical College, Pokhara, Kaski
4. BPKM Cancer Hospital, Bharatpur, Chitwan
5. TU Teaching Hospital,Maharajgunj, Kathmandu
6. Kanti Children's Hospital, Maharajgunj, Kathmandu
7. BP Koirala Institute of Health Sciences, Dharan, Sunsari
8. Shree Birendra Hospital, Kathmandu
9. Civil Service Hospital, Kathmandu
10. Patan Academy of Health Science, Lalitpur
11. Paropakar Maternity & Women Hospital, Kathmandu
12. Nepalgunj Medical College Teaching hospital Kohalpur Banke

III. RESULTS AND DISCUSSION

Table 2

Distribution of cases by nationality		
Nationality	Number	Percent
Nepali	10516	98.12
Indian	202	1.88
Total	10718	100

Table 3

Distribution of cases by sex		
Sex	Number	Percent
Male	4939	46.97
Female	5577	53.03
Total	10516	100

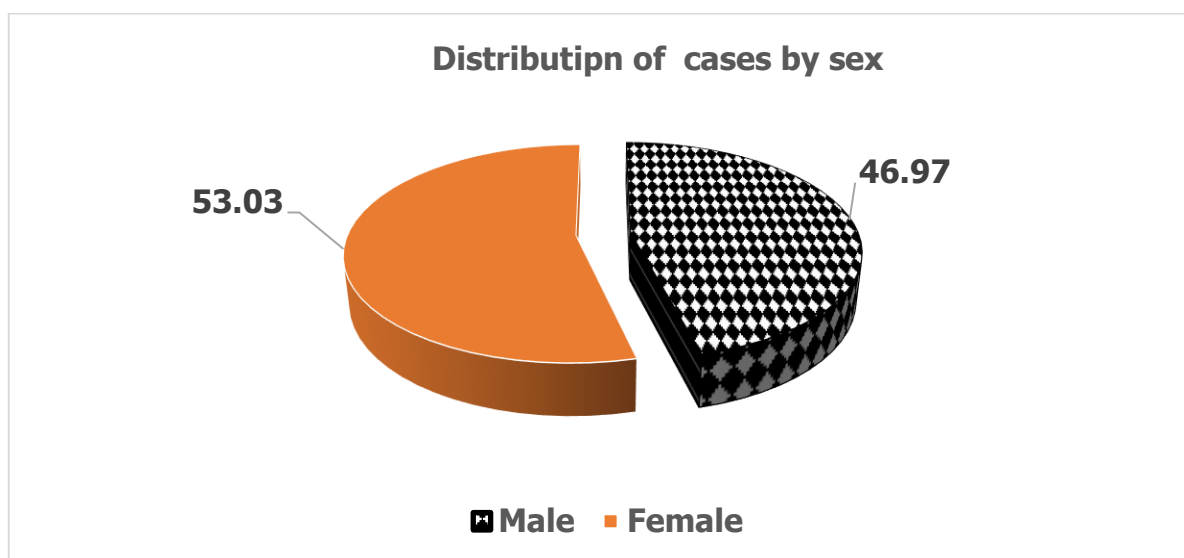


Figure 1

Table 4

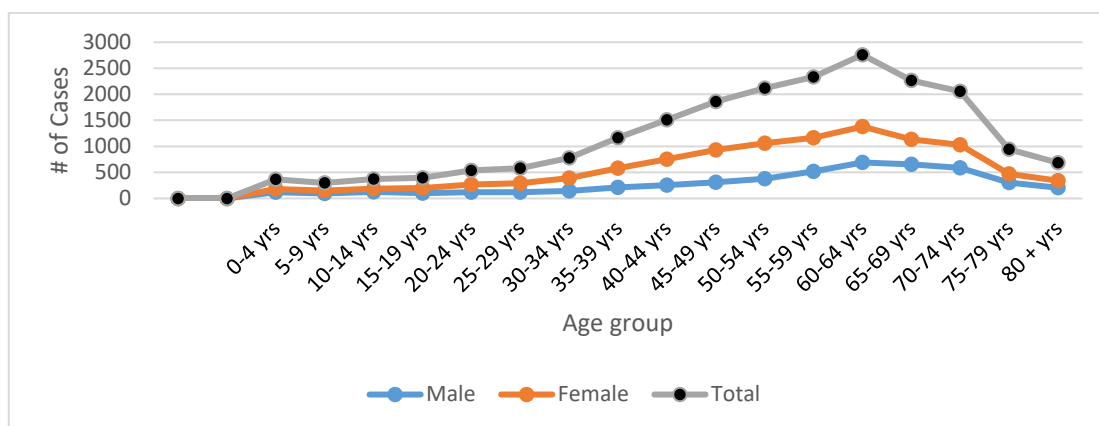
Distribution of cases by reporting institute							
S.N.	Reporting institute	Sex				Total	
		Male		Female			
		#	%	#	%	Number	Percent
1	BPKMCH	2125	43.02	2510	45.01	4635	44.08
2	BPKIHS	215	4.35	232	4.16	447	4.25
3	BCH	1111	22.49	1517	27.20	2628	24.99
4	BH	489	9.90	373	6.69	862	8.20
5	TUTH	345	6.99	347	6.22	692	6.58
6	KCH	81	1.64	50	0.90	131	1.25
7	MTH	73	1.48	65	1.17	138	1.31
8	SBH	184	3.73	125	2.24	309	2.94
9	CSH	134	2.71	151	2.71	285	2.71
10	PAHS	151	3.06	139	2.49	290	2.76
11	PMWH	0	-	31	0.56	31	0.29
12	NMCTH	31	0.63	37	0.66	68	0.65
	Total	4939	100	5577	100	10516	100

Table 5

Distribution of cases by broad age group and sex						
Broad-age group	Sex				Total	
	Male		Female			
	#	%	#	%	#	%
0-14 yrs	335	6.78	183	3.28	518	4.93
15-34 yrs	488	9.88	660	11.83	1148	10.92
35-64 yrs	2366	47.90	3508	62.90	5874	55.86
65+ yrs	1750	35.43	1915	34.34	2976	28.30
Total	4939	100	5577	100	10516	100

Table 6

Distribution of cases by age group and sex						
Age group	Sex				Total	
	Male		Female			
	#	%	#	%	#	%
0-4 yrs	117	2.37	65	1.17	182	1.73
5-9 yrs	94	1.90	55	0.99	149	1.42
10-14 yrs	124	2.51	63	1.13	187	1.78
15-19 yrs	104	2.11	95	1.70	199	1.89
20-24 yrs	123	2.49	146	2.62	269	2.56
25-29 yrs	119	2.41	172	3.08	291	2.77
30-34 yrs	142	2.88	247	4.43	389	3.70
35-39 yrs	214	4.33	367	6.58	581	5.52
40-44 yrs	253	5.12	502	9.00	755	7.18
45-49 yrs	310	6.28	621	11.14	931	8.85
50-54 yrs	379	7.67	681	12.21	1060	10.08
55-59 yrs	520	10.53	648	11.62	1168	11.11
60-64 yrs	690	13.97	689	12.35	1379	13.11
65-69 yrs	654	13.24	480	8.61	1134	10.78
70-74 yrs	585	11.84	442	7.93	1027	9.77
75-79 yrs	303	6.13	169	3.03	472	4.49
80 + yrs	208	4.21	135	2.42	343	3.26
Total	4939	100	5577	100	10516	100

Figure 2. Distribution of cases by age group and sex**Table 7**

Distribution of cases by site and sex for all institution							
ICD-10	Topography	Sex				Total	
		Male		Female			
		#	%		%	#	%
C00	Lip	18	0.36	9	0.16	27	0.26
C01	Base of tongue	1	0.02	0	-	1	0.01
C02	Other and unspecified parts of tongue	162	3.28	48	0.86	210	2.00
C03	Gum	56	1.13	14	0.25	70	0.67
C04	Floor of mouth	11	0.22	4	0.07	15	0.14
C05	Palate	20	0.40	9	0.16	29	0.28
C06	Other and unspecified parts of mouth	153	3.10	61	1.09	214	2.03
C07	Parotid gland	18	0.36	19	0.34	37	0.35
C08	Other and unspecified major salivary glands	9	0.18	4	0.07	13	0.12
C09	Tonsil	27	0.55	7	0.13	34	0.32
C10	Oropharynx	29	0.59	10	0.18	39	0.37
C11	Nasopharynx	72	1.46	37	0.66	109	1.04
C12	Pyriiform sinus	62	1.26	11	0.20	73	0.69
C13	Hypopharynx	11	0.22	2	0.04	13	0.12
C14	Other and ill-defined sites in lip, oral cavity and pharynx	9	0.18	3	0.05	12	0.11
C15	Esophagus	153	3.10	74	1.33	227	2.16
C16	Stomach	324	6.56	212	3.80	536	5.10
C17	Small intestine	12	0.24	12	0.22	24	0.23
C18	Colon	158	3.20	117	2.10	275	2.62
C19	Rectosigmoid junction	3	0.06	4	0.07	7	0.07

C20	Rectum	161	3.26	108	1.94	269	2.56
C21	Anus and anal canal	14	0.28	22	0.39	36	0.34
C22	Liver and intrahepatic bile duct	183	3.71	119	2.13	302	2.87
C23	Gall bladder	139	2.81	281	5.04	420	3.99
C24	Other and unspecified parts of biliary tract	40	0.81	32	0.57	72	0.68
C25	Pancreas	76	1.54	61	1.09	137	1.30
C26	Other and ill-defined digestive organs	19	0.38	8	0.14	27	0.26
C30	Nasal cavity and middle ear	32	0.65	22	0.39	54	0.51
C31	Accessory sinus	23	0.47	17	0.30	40	0.38
C32	Larynx	204	4.13	74	1.33	278	2.64
C33	Trachea	0	-	1	0.02	1	0.01
C34	Bronchus and lung	787	15.93	560	10.04	1347	12.81
C37	Thymus	7	0.14	7	0.13	14	0.13
C38	Heart, mediastinum, and pleura	12	0.24	11	0.20	23	0.22
C40	Bones, joints and articular cartilage	59	1.19	60	1.08	119	1.13
C41	Bones,joints & articular cartilage of other & unspecified sites	85	1.72	65	1.17	150	1.43
C42.2	Spleen	3	0.06	0	-	3	0.03
C43	Skin melanoma	11	0.22	9	0.16	20	0.19
C44	Skin other	43	0.87	36	0.65	79	0.75
C47	Peripheral nerves and autonomic nervous system	4	0.08	3	0.05	7	0.07
C48	Retroperitoneum and peritoneum	10	0.20	15	0.27	25	0.24
C49	Connective, subcutaneous and other soft tissues	82	1.66	56	1.00	138	1.31
C50	Breast	25	0.51	891	15.98	916	8.71
C51	Vulva	0	-	42	0.75	42	0.40
C52	Vagina	0	-	30	0.54	30	0.29
C53	Cervix uteri	0	-	928	16.64	928	8.82
C54	Endometrium	0	-	76	1.36	76	0.72
C55	Uterus	0	-	22	0.39	22	0.21
C56	Ovary	0	-	393	7.05	393	3.74
C57	Other and unspecified female genital organs	0	-	14	0.25	14	0.13
C58	Placenta	0	-	1	0.02	1	0.01
C60	Penis	79	1.60	0	-	79	0.75
C61	Prostate gland	85	1.72	0	-	85	0.81
C62	Testes	46	0.93	0	-	46	0.44

C63	Other and unspecified male genital organs	2	0.04	0	-	2	0.02
C64	Kidney	80	1.62	36	0.65	116	1.10
C65	Renal pelvis	4	0.08	2	0.04	6	0.06
C66	Ureter	1	0.02	1	0.02	2	0.02
C67	Bladder	241	4.88	71	1.27	312	2.97
C68	other and unspecified urinary organs	5	0.10	0	-	5	0.05
C69	Eye and adnexa	21	0.43	20	0.36	41	0.39
C70	Meninges	11	0.22	11	0.20	22	0.21
C71	Brain	132	2.67	108	1.94	240	2.28
C72	Spinal cord, cranial, nerves, and other parts of CNS	4	0.08	7	0.13	11	0.10
C73	Thyroid gland	49	0.99	174	3.12	223	2.12
C74	Adrenal gland	11	0.22	7	0.13	18	0.17
C75	Other endocrine glands and related structures	4	0.08	3	0.05	7	0.07
C76	Other and ill-defined sites	39	0.79	35	0.63	74	0.70
C77	Lymph nodes (different site)	83	1.68	45	0.81	128	1.22
C80	Unknown primary site	59	1.19	38	0.68	97	0.92
C81	Hodgkin's disease	106	2.15	40	0.72	146	1.39
C85	NHL	148	3.00	85	1.52	233	2.22
C90	Multiple myeloma	62	1.26	29	0.52	91	0.87
C91	Leukemia/lymphoid	169	3.42	119	2.13	288	2.74
C92	Leukemia/myeloid	96	1.94	72	1.29	168	1.60
C95	Leukemia unspecified	75	1.52	53	0.95	128	1.22
	Total	4939	100	5577	100	10516	100

Table 8. Distribution of cases by site for both sexes in descending order

ICD-10	Topography	#	%
C34	Bronchus and lung	1347	12.81
C53	Cervix uteri	928	8.82
C50	Breast	916	8.71
C16	Stomach	536	5.10
C23	Gall bladder	420	3.99
C56	Ovary	393	3.74
C67	Bladder	312	2.97

C22	Liver and intrahepatic bile duct	302	2.87
C91	Leukemia/lymphoid	288	2.74
C32	Larynx	278	2.64
C18	Colon	275	2.62
C20	Rectum	269	2.56
C71	Brain	240	2.28
C85	NHL	233	2.22
C15	Esophagus	227	2.16
C73	Thyroid gland	223	2.12
C06	Other and unspecified parts of mouth	214	2.03

C02	Other and unspecified parts of tongue	210	2.00
C92	Leukemia/myeloid	168	1.60
C41	Bones, joints & articular cartilage of other & unspecified sites	150	1.43
C81	Hodgkin's disease	146	1.39
C49	Connective, subcutaneous and other soft tissues	138	1.31
C25	Pancreas	137	1.30
C77	Lymph nodes (different site)	128	1.22
C95	Leukemia unspecified	128	1.22
C40	Bones, joints and articular cartilage	119	1.13
C64	Kidney	116	1.10
C11	Nasopharynx	109	1.04
C80	Unknown primary site	97	0.92
C90	Multiple myeloma	91	0.87
C61	Prostate gland	85	0.81
C60	Penis	79	0.75
C44	Skin other	79	0.75
C54	Endometrium	76	0.72
C76	Other and ill-defined sites	74	0.70
C12	Pyriform sinus	73	0.69
C24	Other and unspecified parts of biliary tract	72	0.68
C03	Gum	70	0.67
C30	Nasal cavity and middle ear	54	0.51
C62	Testes	46	0.44
C51	Vulva	42	0.40
C69	Eye and adnexa	41	0.39
C31	Accessory sinus	40	0.38
C10	Oropharynx	39	0.37
C07	Parotid gland	37	0.35
C21	Anus and anal canal	36	0.34
C09	Tonsil	34	0.32

C52	Vagina	30	0.29
C05	Palate	29	0.28
C26	Other and ill-defined digestive organs	27	0.26
C00	Lip	27	0.26
C48	Retroperitoneum and peritoneum	25	0.24
C17	Small intestine	24	0.23
C38	Heart, mediastinum, and pleura	23	0.22
C70	Meninges	22	0.21
C55	Uterus	22	0.21
C43	Skin melanoma	20	0.19
C74	Adrenal gland	18	0.17
C04	Floor of mouth	15	0.14
C37	Thymus	14	0.13
C57	Other and unspecified female genital organs	14	0.13
C13	Hypopharynx	13	0.12
C08	Other and unspecified major salivary glands	13	0.12
C14	Other and ill-defined sites in lip, oral cavity and pharynx	12	0.11
C72	Spinal cord, cranial, nerves, and other parts of CNS	11	0.10
C47	Peripheral nerves and autonomic nervous system	7	0.07
C75	Other endocrine glands and related structures	7	0.07
C19	Rectosigmoid junction	7	0.07
C65	Renal pelvis	6	0.06
C68	Other and unspecified urinary organs	5	0.05
C42.2	Spleen	3	0.03
C63	Other and unspecified male genital organs	2	0.02
C66	Ureter	2	0.02

C01	Base of tongue	1	0.01
C33	Trachea	1	0.01
C58	Placenta	1	0.01
	Total	10516	100

Table 9. Distribution of cases by site for male in descending order

ICD-10	Topography	#	%
C34	Bronchus and lung	787	15.93
C16	Stomach	324	6.56
C67	Bladder	241	4.88
C32	Larynx	204	4.13
C22	Liver and intrahepatic bile duct	183	3.71
C91	Leukemia/lymphoid	169	3.42
C02	Other and unspecified parts of tongue	162	3.28
C20	Rectum	161	3.26
C18	Colon	158	3.20
C06	Other and unspecified parts of mouth	153	3.10
C15	Esophagus	153	3.10
C85	NHL	148	3.00
C23	Gall bladder	139	2.81
C71	Brain	132	2.67
C81	Hodgkin's disease	106	2.15
C92	Leukemia/myeloid	96	1.94
C41	Bones, joints & articular cartilage of other & unspecified sites	85	1.72
C61	Prostate gland	85	1.72
C77	Lymph nodes (different site)	83	1.68
C49	Connective, subcutaneous and other soft tissues	82	1.66
C64	Kidney	80	1.62
C60	Penis	79	1.60

C25	Pancreas	76	1.54
C95	Leukemia unspecified	75	1.52
C11	Nasopharynx	72	1.46
C12	Pyriiform sinus	62	1.26
C90	Multiple myeloma	62	1.26
C40	Bones, joints and articular cartilage	59	1.19
C80	Unknown primary site	59	1.19
C03	Gum	56	1.13
C73	Thyroid gland	49	0.99
C62	Testes	46	0.93
C44	Skin other	43	0.87
C24	Other and unspecified parts of biliary tract	40	0.81
C76	Other and ill-defined sites	39	0.79
C30	Nasal cavity and middle ear	32	0.65
C10	Oropharynx	29	0.59
C09	Tonsil	27	0.55
C50	Breast	25	0.51
C31	Accessory sinus	23	0.47
C69	Eye and adnexa	21	0.43
C05	Palate	20	0.40
C26	Other and ill-defined digestive organs	19	0.38
C00	Lip	18	0.36
C07	Parotid gland	18	0.36
C21	Anus and anal canal	14	0.28
C17	Small intestine	12	0.24
C38	Heart, mediastinum, and pleura	12	0.24
C04	Floor of mouth	11	0.22
C13	Hypopharynx	11	0.22
C43	Skin melanoma	11	0.22
C70	Meninges	11	0.22
C74	Adrenal gland	11	0.22
C48	Retroperitoneum and peritoneum	10	0.20

C08	Other and unspecified major salivary glands	9	0.18
C14	Other and ill-defined sites in lip, oral cavity and pharynx	9	0.18
C37	Thymus	7	0.14
C68	other and unspecified urinary organs	5	0.10
C47	Peripheral nerves and autonomic nervous system	4	0.08
C65	Renal pelvis	4	0.08
C72	Spinal cord, cranial, nerves, and other parts of CNS	4	0.08
C75	Other endocrine glands and related structures	4	0.08
C19	Rectosigmoid junction	3	0.06
C42.2	Spleen	3	0.06
C63	Other and unspecified male genital organs	2	0.04
C01	Base of tongue	1	0.02
C66	Ureter	1	0.02
	Total	4939	100

Table 10. Distribution of cases by site for female in descending order

ICD-10	Topography	#	%
C53	Cervix uteri	928	16.64
C50	Breast	891	15.98
C34	Bronchus and lung	560	10.04
C56	Ovary	393	7.05
C23	Gall bladder	281	5.04
C16	Stomach	212	3.80
C73	Thyroid gland	174	3.12
C22	Liver and intrahepatic bile duct	119	2.13
C91	Leukemia/lymphoid	119	2.13
C18	Colon	117	2.10

C20	Rectum	108	1.94
C71	Brain	108	1.94
C85	NHL	85	1.52
C54	Endometrium	76	1.36
C15	Esophagus	74	1.33
C32	Larynx	74	1.33
C92	Leukemia/myeloid	72	1.29
C67	Bladder	71	1.27
C41	Bones, joints & articular cartilage of other & unspecified sites	65	1.17
C06	Other and unspecified parts of mouth	61	1.09
C25	Pancreas	61	1.09
C40	Bones, joints and articular cartilage	60	1.08
C49	Connective, subcutaneous and other soft tissues	56	1.00
C95	Leukemia unspecified	53	0.95
C02	Other and unspecified parts of tongue	48	0.86
C77	Lymph nodes (different site)	45	0.81
C51	Vulva	42	0.75
C81	Hodgkin's disease	40	0.72
C80	Unknown primary site	38	0.68
C11	Nasopharynx	37	0.66
C44	Skin other	36	0.65
C64	Kidney	36	0.65
C24	Other and unspecified parts of biliary tract	32	0.57
C52	Vagina	30	0.54
C90	Multiple myeloma	29	0.52
C76	Other and ill-defined sites	35	0.63
C21	Anus and anal canal	22	0.39
C30	Nasal cavity and middle ear	22	0.39
C55	Uterus	22	0.39
C69	Eye and adnexa	20	0.36

C07	Parotid gland	19	0.34
C31	Accessory sinus	17	0.30
C48	Retroperitoneum and peritoneum	15	0.27
C03	Gum	14	0.25
C57	Other and unspecified female genital organs	14	0.25
C17	Small intestine	12	0.22
C12	Pyriiform sinus	11	0.20
C38	Heart, mediastinum, and pleura	11	0.20
C70	Meninges	11	0.20
C10	Oropharynx	10	0.18
C00	Lip	9	0.16
C05	Palate	9	0.16
C43	Skin melanoma	9	0.16
C26	Other and ill-defined digestive organs	8	0.14
C09	Tonsil	7	0.13
C37	Thymus	7	0.13
C72	Spinal cord, cranial, nerves, and other parts of CNS	7	0.13
C74	Adrenal gland	7	0.13
C04	Floor of mouth	4	0.07
C08	Other and unspecified major salivary glands	4	0.07
C19	Rectosigmoid junction	4	0.07
C14	Other and ill-defined sites in lip, oral cavity and pharynx	3	0.05
C47	Peripheral nerves and autonomic nervous system	3	0.05
C75	Other endocrine glands and related structures	3	0.05
C13	Hypopharynx	2	0.04
C65	Renal pelvis	2	0.04
C33	Trachea	1	0.02
C58	Placenta	1	0.02

C66	Ureter	1	0.02
	Total	5577	100

IV. DISCUSSION

In this study, twelve major hospitals of the nation were included for data collection for 2017 and total 11754 cancer cases were reported for this study. The cases were verified by name, age, sex, address, topography and morphology. Repeated cancer cases (n = 1036) were deleted. Indian cases, (n = 202) were excluded from database and the total of 10516 cases were coded based on ICD-O3rd and ICD -10, published by IARC/WHO and data analysis was carried out by using SPSS 19.0.

The most common cancer site was C34 lung 12.81% followed by C53 cervical 8.82%, C50 breast 8.71%, C16 stomach 5.10% and C23 gall bladder 3.99 %. Among males, C34 lung cancer 15.93% was the most common followed by C16 stomach 6.56 % , C67 bladder 4.88 % , C32 larynx 4.13% and liver 3.71%. Among females, C53 cervical 16.4 % followed by C50 breast 15.98 % , C34 lung 10.04 % , C56 ovary % 7.05 and C23 gall bladder 5.04% . Cancer incidence was raised in Nepal and thus comprehensive programmed on cancer prevention, early detection, control and treatment should be carried out in national level.

V. CONCLUSION

Cancer incidence was rising every year in Nepal. Whereas, C34 lung was the leading cancer 12.81 % followed by C53 cervix 8.82% , C50 breast 8.71% , C16 stomach 5.10 % , and C23 gall bladder 3.99 % and ovarian cancer.

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