

Wattanosoth Cancer Registry 2013

Other :





Table of CONTENTS

Message from CEO.....	1
Message from Director.....	2
Cancer Registry 2013 : Abstract.....	3
Annual Cancer Registry 2013.....	4
<i>Distribution of All Cancer by Age and Gender, The Top 10 Leading Site of Cancer, Patient Category, Method of Diagnosis, Staging, Type of Treatment, Patient Follow up, Patient Nationality</i>	
Review of Breast Cancer.....	15
Review of Lung Cancer.....	21
Review of Colorectal Cancer.....	27
Review of Prostate gland Cancer.....	33
Review of Hepatobiliary Cancer.....	39
Hematologic Malignancies 2013.....	48
Age Distribution in All Male Cancer Number of Case.....	66
Age Distribution in All Female Cancer Number of Case.....	68
Breast Cancer Survival.....	71
Colorectal Cancer Survival.....	73
Lung Cancer Survival.....	76
Cancer Registry Team.....	79



Message from CEO

Cancer is a paramount importance disease causes serious illness and suffering for both patient and family. It is one of a leading cause of death for decades. Beside there is still a lot more to learn and develop in order to fight this danger disease.

Wattanosoth Cancer Registry 2013 was established by Wattanosoth Hospital. It is a systematic collection of data gathering from patient during treatment and care process. The data is presented and used as an educational resource, sharing and utilizing of knowledge and experiences for multidisciplinary team. It is aim at the improvement of cancer therapy; the advantage for all every patients suffered from cancer and ultimately hopes to be the lights for them.



Krittavith Lertutsahakul, M.D.
Chief Executive Officer – Group 1

Message from **Director**



The Cancer Registry of Bangkok Hospital – Soonvijai (BHS) has been published annually for 7 years and now it comes to the 8th edition.

The Cancer Registry has been adjusted to be up to date regularly and we notice that foreign patient is increasing continuously. Therefore, there is Top 10 Countries of foreign patients in this edition, in order to be information for a suitable treatment plan including to enhance the medical services to be the best for our patients.

The Cancer Registry is the important information which lead us to be an excellent cancer center and can be a benchmark to the international cancer institute, especially for MD Anderson Cancer Center, where we are a sister institute.

On behalf of Wattanosoth Hospital management, we are appreciated for the all the efforts and cooperation of the production team to be success on *The Cancer Registry 2013*.

Thiravud Khuhaprema, M.D., FRCST., FICS.,
Visiting Professor
Hospital Director, Wattanosoth Cancer Hospital
Bangkok Medical Services Center

Cancer Registry 2013 : **Abstract**

The total of new cases diagnosed as a malignancy at Bangkok Hospital – Soonvijai (BHS) is 1914 cases (excluding the hematologic malignancy). There was a 3 percent increase in the total number as compared to 1854 cases in 2012.

The sex ratio is 1:1. This age distribution has not changed since the year 2011. Patients who are between 50-69 y/o are the majority accounting for more than half of the total. The average age in male patients is 65-69 y/o which is slightly older than the female age of 55-59 y/o.

Top 5 malignancies are:

- | | |
|---|----------------------------------|
| 1) Breast (Including in situ) - 23.20 percent | 2) Lung -11.55 percent |
| 3) Colorectal - 10.87 percent | 4) Prostate gland - 7.31 percent |
| 5) Liver and Hepatobiliary - 7.16 percent | |

The trend for the top 5 malignancies has not changed over the past 7 years (2006-2012). For the past 7 years the top 5 have been: Breast, Colorectal, Lung and Liver, and Prostate cancer. However, when compared to last year, the overall number of cases in Breast cancer increased significantly by 3.8 percent, Lung cancer increased by 4.0 percent, Colorectal cancer decreased by 6.2 percent, Prostate gland cancer increased by 6.4 percent and Liver and Hepatobiliary decreased by 10.2 percent.

The results of overall staging of patients who received treatment at Bangkok Hospital – Soonvijai (BHS) are: Stage I is 24.36 percent, Stage II is 20.19 percent, Stage III is 22.09 percent, and Stage IV is 22.84 percent. Unspecified stage (due to lack of pertinent information) is 6.35 percent. All results are similar to 2012 staging results.

Analysis of the primary treatments modalities indicates that surgery continues to be the majority (24 percent), followed by Radiation therapy (15 percent), Chemotherapy and Concurrent chemo-radiation (4 percent). Intervention treatment and Brachytherapy remained at 3 percent.

Patients with a cancer diagnosis decide to receive treatment at Wattanosoth Cancer Hospital at 22 percent equal to last year. and 9 percent (10 percent in 2012) of cancer patients decide to have primary treatment in other hospitals. Patients who came from other hospitals for a second opinion at BMC significantly increased to 36 percent (35 percent in 2012), however, those who decided to receive treatment at BMC equal to the year 2012 is 55 percent.

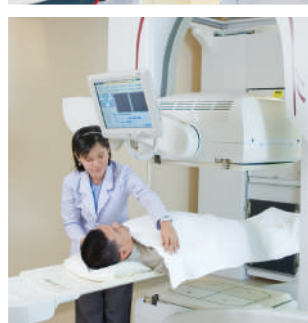
Patients who are still living after diagnosis or treatment in 2012 is 37 percent, patients alive without disease are 21 percent, and patients who have died with cancer as the cause are 2 percent. At this time no patients receiving treatment have been lost to follow-up.

Ratio of Thai to non-Thai patients is 3:2 in year 2013 equal to the year 2012. The top 5 rankings of non-Thai patients are: Myanmar, Bangladesh, United Arab Emirates, Oman and Kuwait, respectively.

The Top 5 malignancies of non-Thai patients are:

- | | |
|---|----------------------------------|
| 1) Breast (Including in situ) - 20.42 percent | 2) Colorectal - 10.44 percent |
| 3) Lung - 9.74 percent | 4) Prostate gland - 9.51 percent |
| 5) Liver and Hepatobiliary - 9.40 percent | |

It is the third time BHS can follow the patients for 5 years and report the 5-years survival. We have shown and discussed the data of those survivors of top 3 cancers which are breast, colorectal and lung in separated chapters.

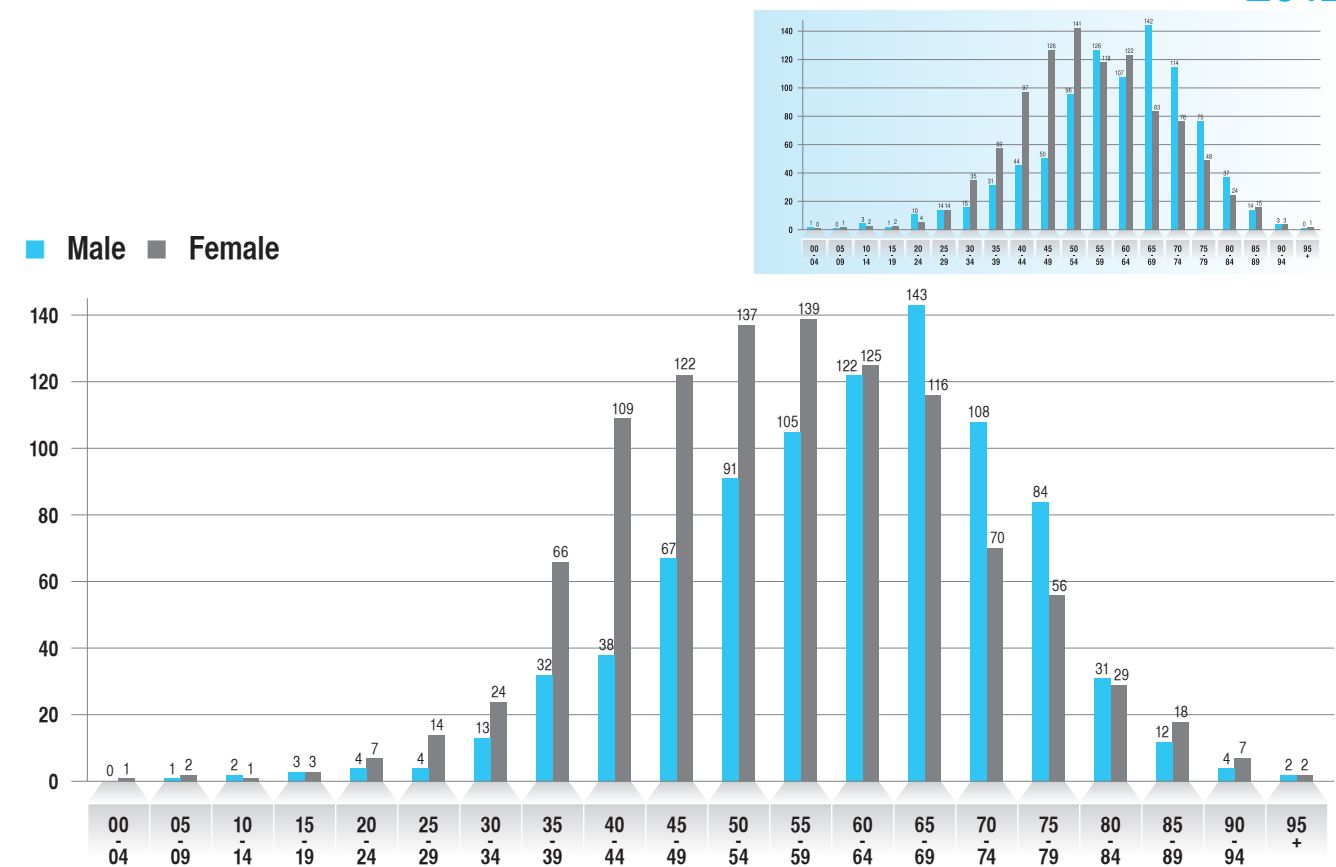


WATTANOSOTH ANNUAL CANCER REGISTRY 2013

DISTRIBUTION OF ALL CANCER BY AGE AND GENDER

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
00 - 04	0	0.00	1	0.10	1	0.05
05 - 09	1	0.12	2	0.19	3	0.16
10 - 14	2	0.23	1	0.10	3	0.16
15 - 19	3	0.35	3	0.29	6	0.31
20 - 24	4	0.46	7	0.67	11	0.57
25 - 29	4	0.46	14	1.34	18	0.94
30 - 34	13	1.50	24	2.29	37	1.93
35 - 39	32	3.70	66	6.30	98	5.12
40 - 44	38	4.39	109	10.40	147	7.68
45 - 49	67	7.74	122	11.64	189	9.87
50 - 54	91	10.51	137	13.07	228	11.91
55 - 59	105	12.12	139	13.26	244	12.75
60 - 64	122	14.09	125	11.93	247	12.90
65 - 69	143	16.51	116	11.07	259	13.53
70 - 74	108	12.47	70	6.68	178	9.30
75 - 79	84	9.70	56	5.34	140	7.31
80 - 84	31	3.58	29	2.77	60	3.13
85 - 89	12	1.39	18	1.72	30	1.57
90 - 94	4	0.46	7	0.67	11	0.57
95 +	2	0.23	2	0.19	4	0.21
Total	866	100.00	1,048	100.00	1,914	100.00

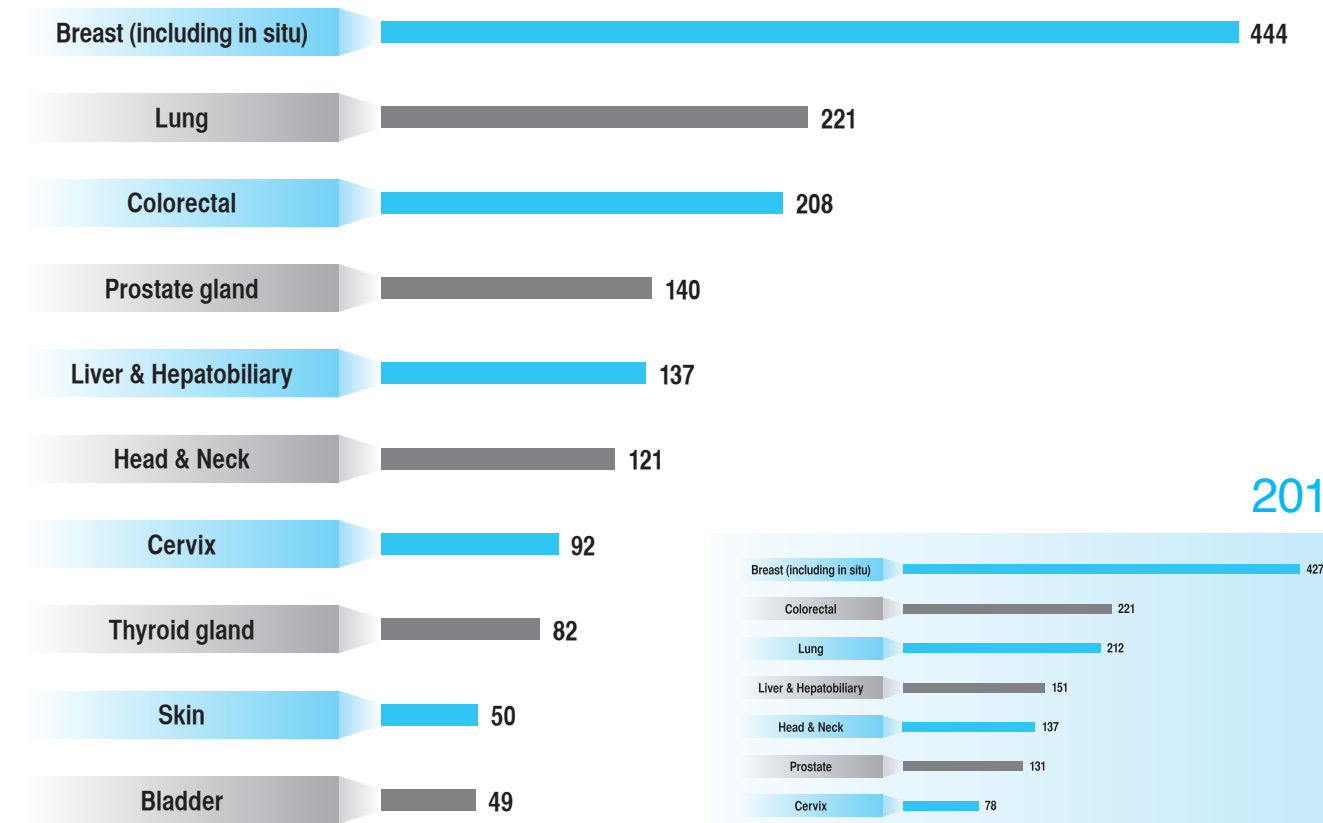
2012



THE TOP 10 LEADING SITE OF CANCER IN BANGKOK HOSPITAL - SOONVIJAI

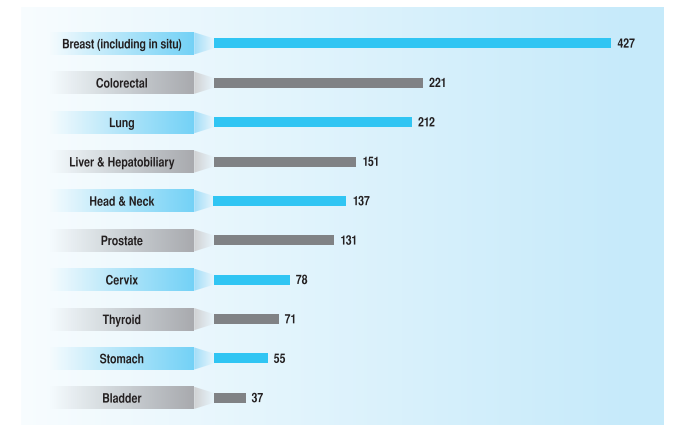
Code	Primary site	Male		Female		Total	
		Number	Percent	Number	Percent	Number	Percent
C50/D05	Breast (including in situ)	1	0.12	443	42.27	444	23.20
C33-C34	Lung	141	16.28	80	7.63	221	11.55
C18-C20	Colorectal	113	13.05	95	9.06	208	10.87
C61	Prostate gland	140	16.17	0	0.00	140	7.31
C22-C24	Liver & Hepatobiliary	103	11.89	34	3.24	137	7.16
C00-C14	Head & Neck	82	9.47	39	3.72	121	6.32
C53	Cervix	0	0.00	92	8.78	92	4.81
C73	Thyroid gland	17	1.96	65	6.20	82	4.28
C44	Skin	30	3.46	20	1.91	50	2.61
C67	Bladder	36	4.16	13	1.24	49	2.56

TOP 10 CANCER FOR ALL GENDER

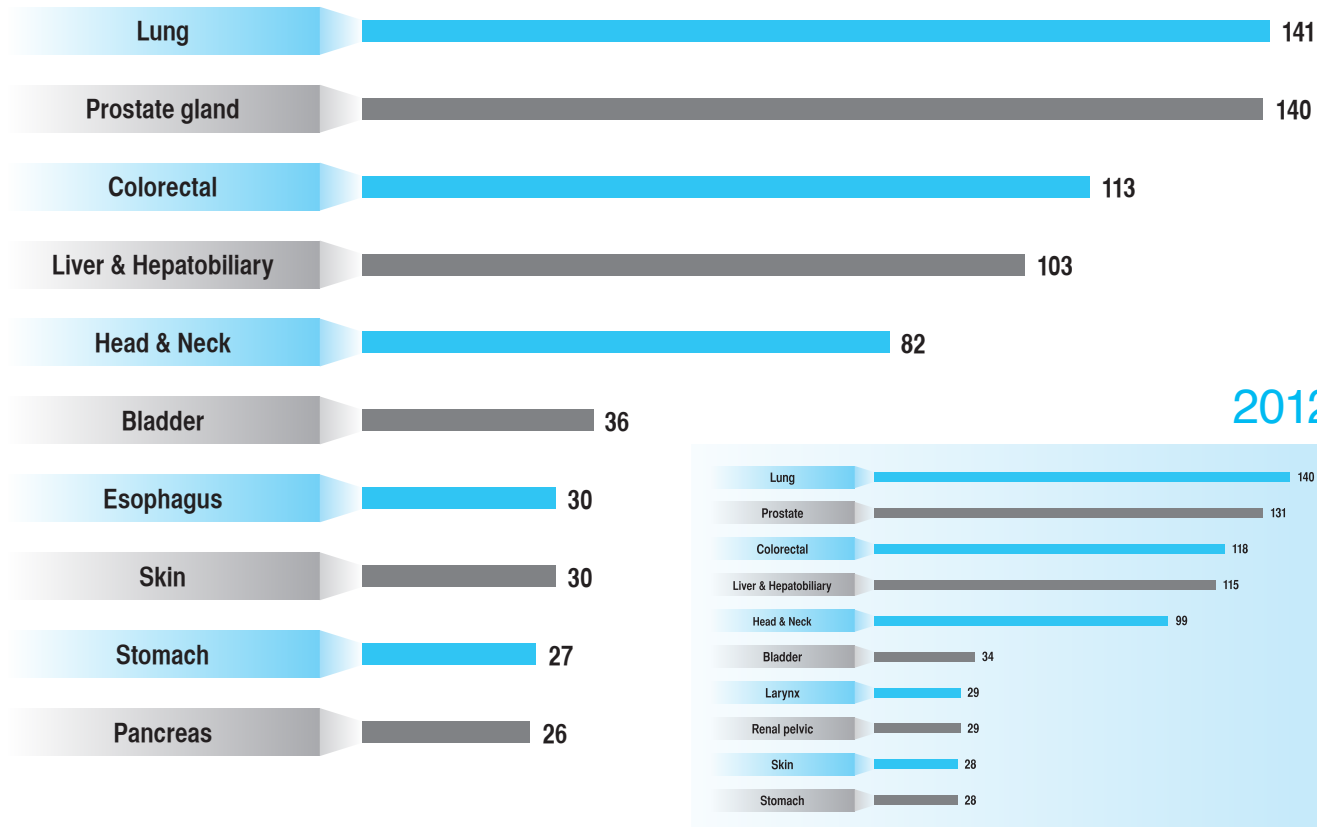


OVERALL CANCER

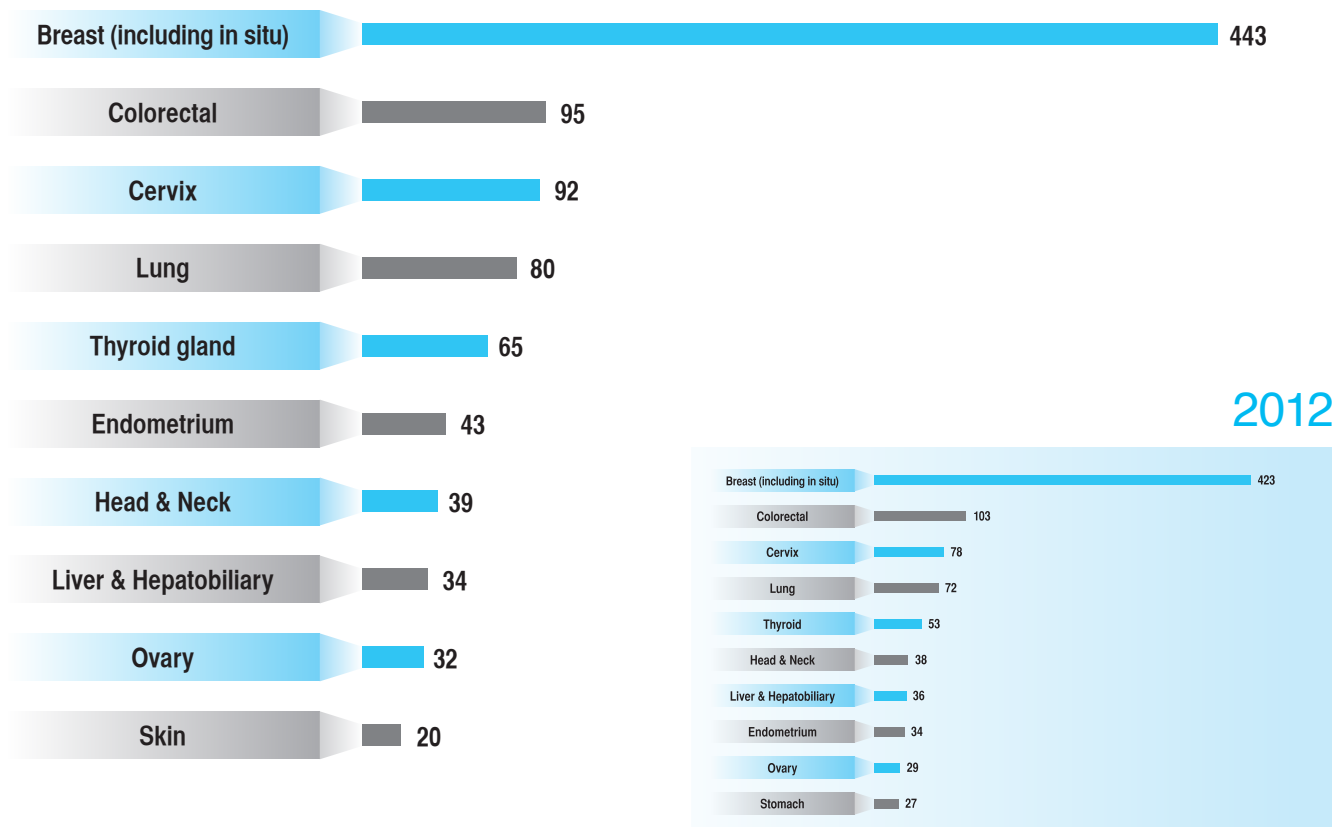
2012



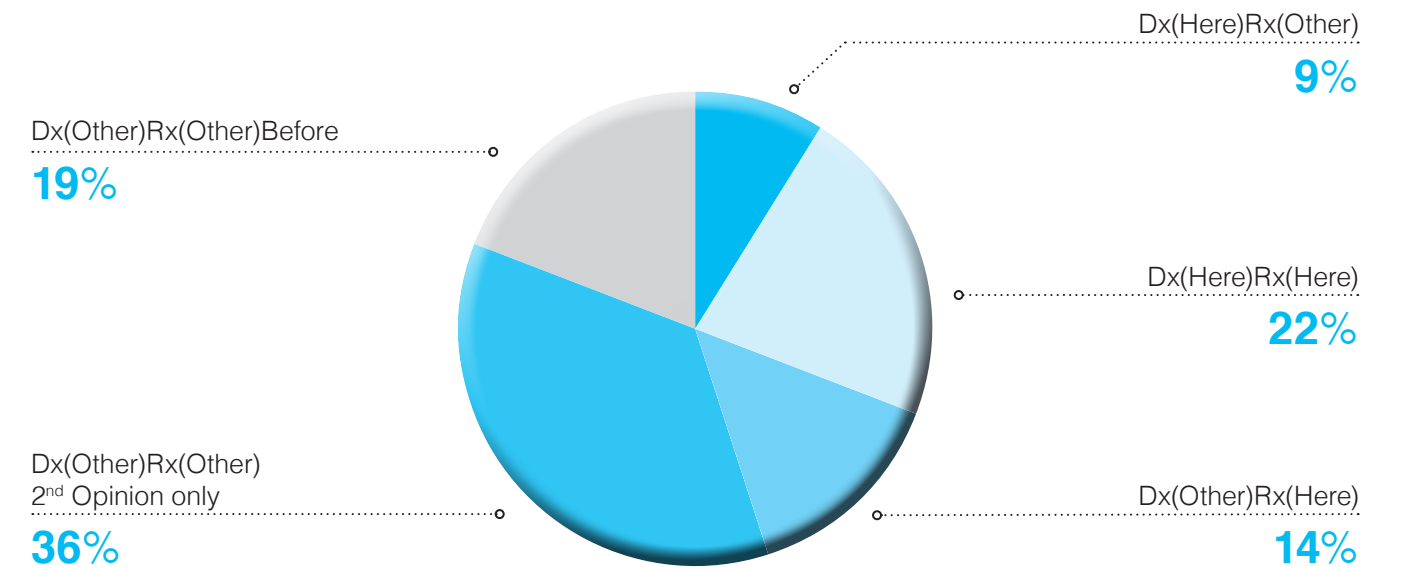
TOP 10 CANCER IN MALE



TOP 10 CANCER IN FEMALE



PATIENT CATEGORY OF ALL CANCER IN BANGKOK HOSPITAL - SOONVIJAI



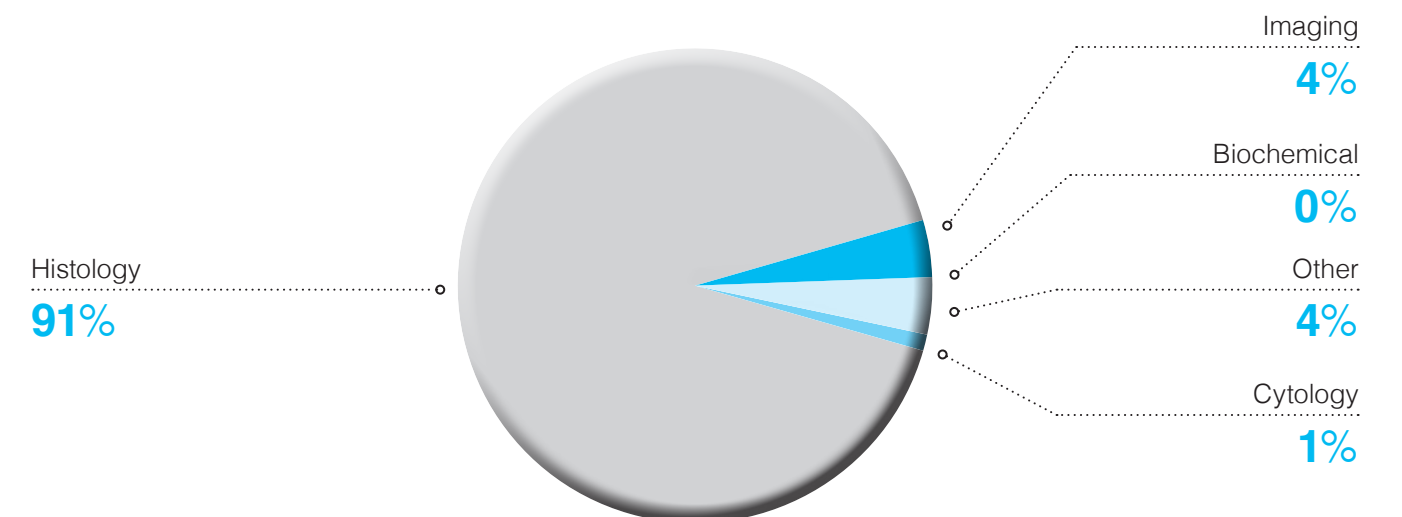
Dx = Diagnosis for Cancer (Dx by Pathology, Cytology or Imaging)

Rx = Treatment

Here = Within Bangkok Hospital - Soonvijai

Other = Outside Bangkok Hospital - Soonvijai

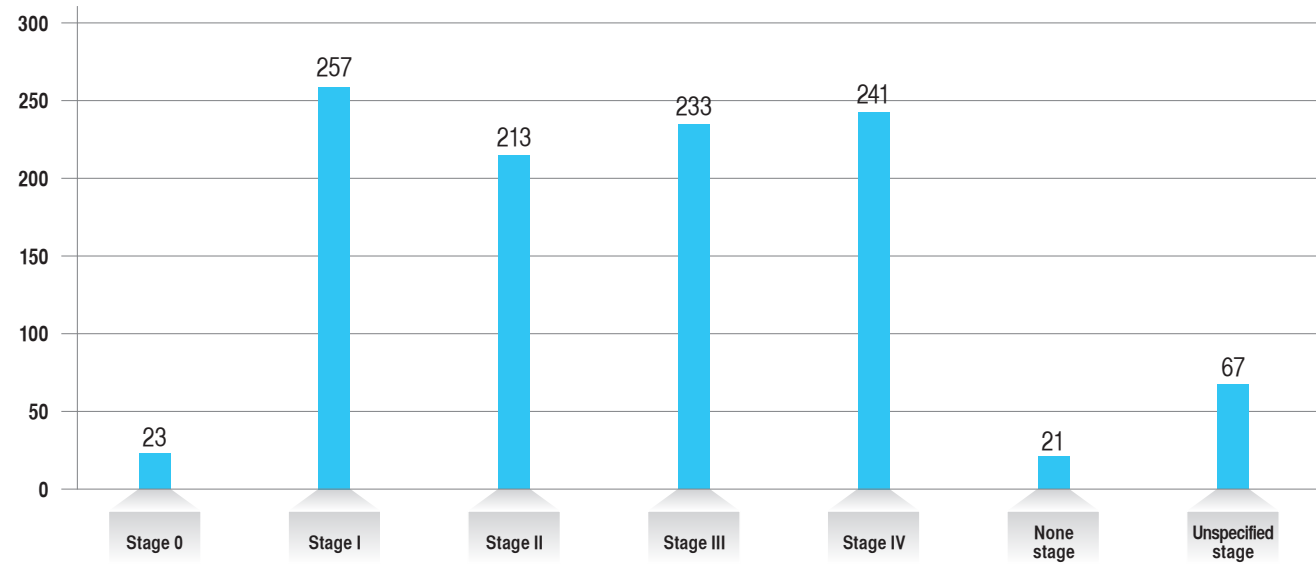
METHOD OF DIAGNOSIS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)



Other = Previously diagnosed as Cancer from other Hospital but no documentation of diagnosis

STAGING (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

All Gender

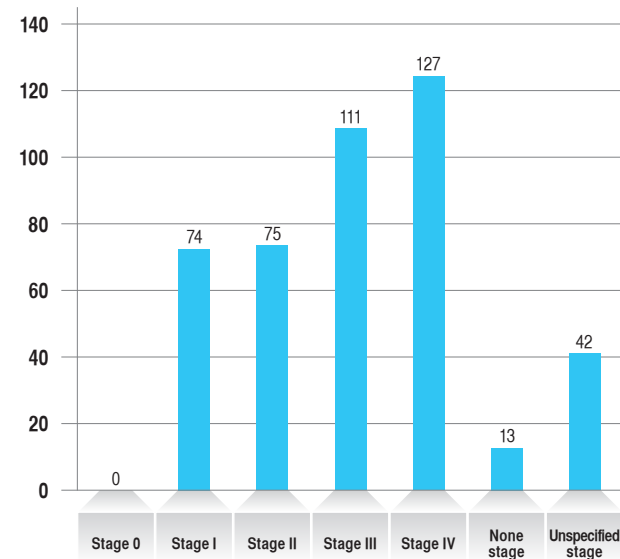


Stage 0 = Carcinoma in situ

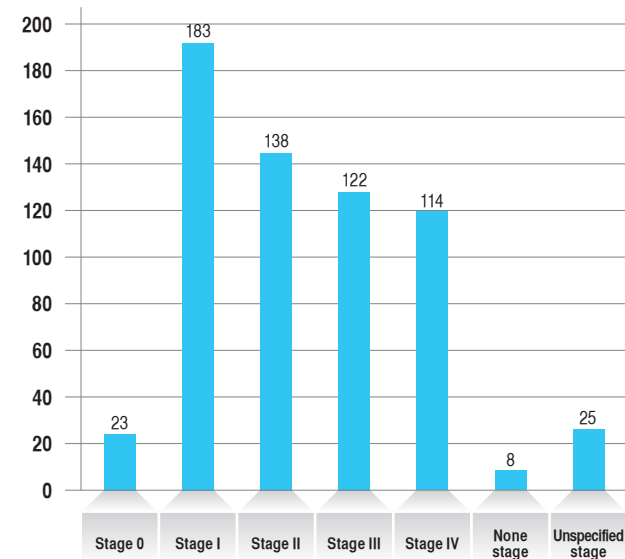
Non stage = In case of CA Brain

Unspecified stage = Incomplete staging due to insufficient patient information

Male



Female



TYPE OF TREATMENT

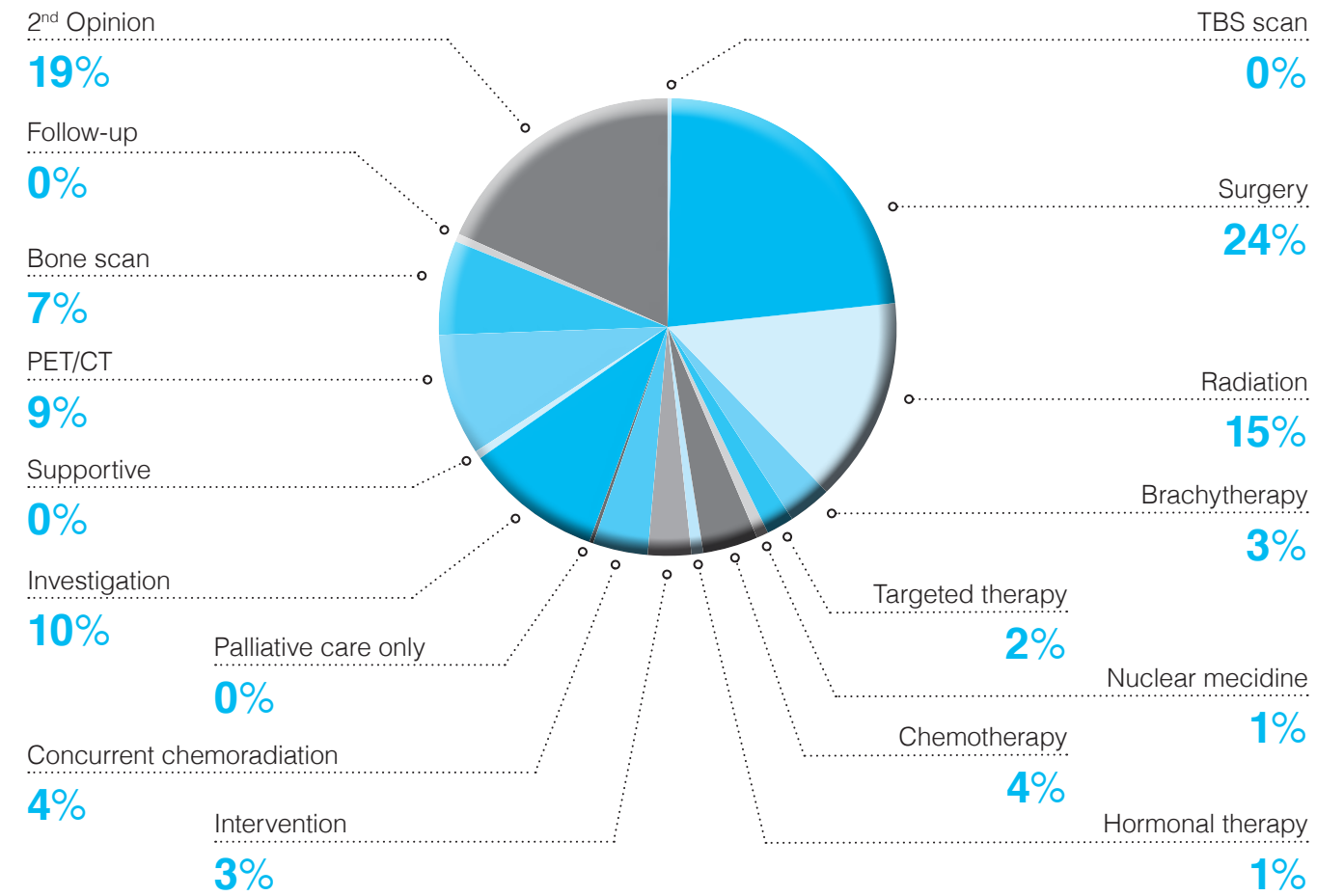
Management of treatment	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
SUR.only	95	10.97	133	12.69	228	11.91
RT only	130	15.01	125	11.93	255	13.32
Brachytherapy	4	0.46	61	5.82	65	3.40
CT only	29	3.35	24	2.29	53	2.77
Targeted therapy	6	0.69	8	0.76	14	0.73
Hormonal therapy	7	0.81	2	0.19	9	0.47
Intervention	37	4.27	7	0.67	44	2.30
Nuclear medicine	5	0.58	16	1.53	21	1.10
Concurrent chemoradiation	36	4.16	18	1.72	54	2.82
Palliative care only	1	0.12	1	0.10	2	0.10
SUR.+RT	18	2.08	19	1.81	37	1.93
SUR.+Brachytherapy	0	0.00	2	0.19	2	0.10
SUR.+CT	20	2.31	41	3.91	61	3.19
SUR.+T	2	0.23	0	0.00	2	0.10
SUR.+Im	5	0.58	3	0.29	8	0.42
SUR.+H	2	0.23	27	2.58	29	1.52
SUR.+I	2	0.23	0	0.00	2	0.10
SUR.+N	4	0.46	15	1.43	19	0.99
SUR.+Concurrent CT-RT	8	0.92	7	0.67	15	0.78
SUR.+Concurrent CT-RT+RT	1	0.12	0	0.00	1	0.05
SUR.+Concurrent CT-RT+Brachytherapy	0	0.00	2	0.19	2	0.10
SUR.+RT+Brachytherapy	0	0.00	4	0.38	4	0.21
RT+Brachytherapy	0	0.00	11	1.05	11	0.57
RT+Concurrent CT-RT	2	0.23	2	0.19	4	0.21
RT+Concurrent CT-RT+Brachytherapy	0	0.00	1	0.10	1	0.05
CT+Concurrent CT-RT	1	0.12	0	0.00	1	0.05
RT+T	1	0.12	1	0.10	2	0.10
RT+CT	8	0.92	5	0.48	13	0.68
RT+CT+H	1	0.12	2	0.19	3	0.16
RT+CT+T	1	0.12	0	0.00	1	0.05
RT+T+I	1	0.12	0	0.00	1	0.05
RT+H	2	0.23	8	0.76	10	0.52
RT+H+I	0	0.00	1	0.10	1	0.05
RT+I	0	0.00	1	0.10	1	0.05

OVERALL CANCER

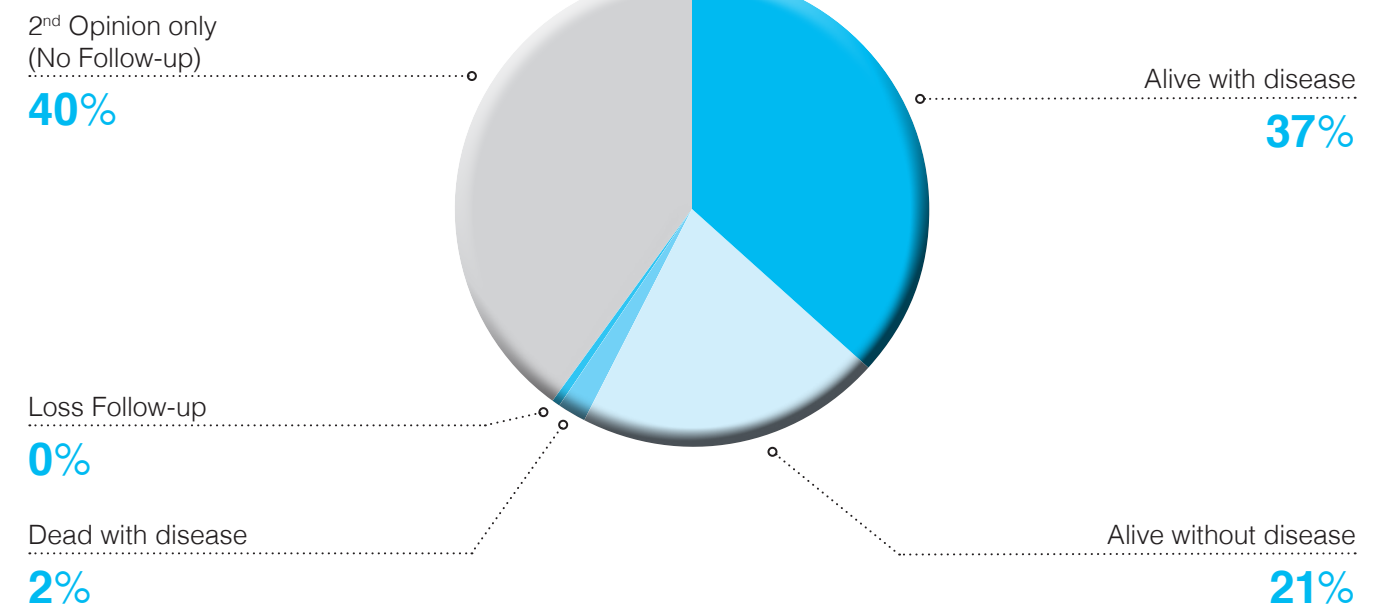
TYPE OF PRIMARY MANAGEMENT (ALL PATIENT)

Management of treatment	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
CT+T	2	0.23	0	0.00	2	0.10
CT+H	0	0.00	2	0.19	2	0.10
I+T	3	0.35	0	0.00	3	0.16
Concurrent CT-RT+Brachytherapy	0	0.00	8	0.76	8	0.42
Concurrent CT-RT+CT	2	0.23	0	0.00	2	0.10
SUR.+RT+CT	2	0.23	25	2.39	27	1.41
SUR.+RT+H	3	0.35	17	1.62	20	1.04
SUR.+RT+T	0	0.00	2	0.19	2	0.10
SUR.+CT+I	0	0.00	2	0.19	2	0.10
SUR.+CT+T	0	0.00	1	0.10	1	0.05
SUR.+CT+H	1	0.12	3	0.29	4	0.21
SUR.+T+I	1	0.12	0	0.00	1	0.05
SUR.+N+H	0	0.00	1	0.10	1	0.05
SUR.+RT+CT+B	0	0.00	2	0.19	2	0.10
SUR.+RT+CT+T	0	0.00	1	0.10	1	0.05
SUR.+RT+CT+H	0	0.00	3	0.29	3	0.16
Investigation	106	12.24	86	8.21	192	10.03
Supportive	5	0.58	3	0.29	8	0.42
PET/CT	87	10.05	80	7.63	167	8.73
Bone scan	65	7.51	60	5.73	125	6.53
Follow-up	1	0.12	5	0.48	6	0.31
2 nd Opinion	158	18.24	197	18.80	355	18.55
TBS scan	1	0.12	3	0.29	4	0.21
Total	866	100.00	1,048	100.00	1,914	100.00

SUR. = Surgery
 RT = External radiation therapy
 CT = Chemotherapy
 H (Hormone) = Hormonal therapy
 T = Targeted therapy
 I = Intervention
 Im = Immunotherapy

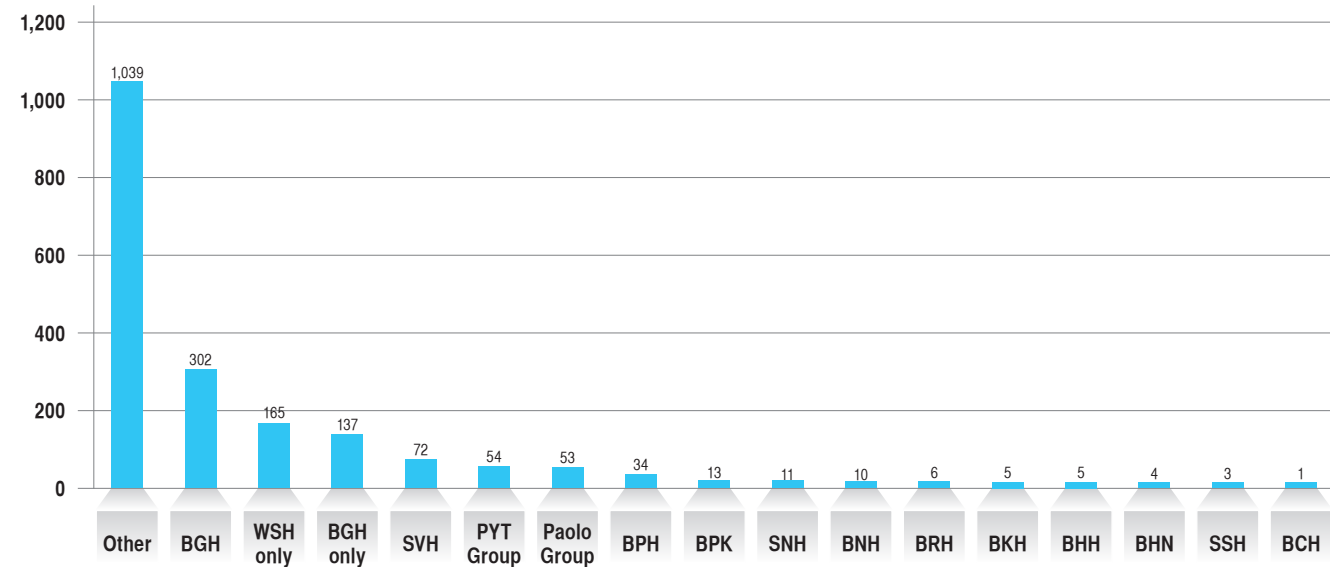


PATIENT FOLLOW UP



2nd Opinion only = Intend not to continue diagnosis or treatment at Bangkok Hospital - Soonvijai

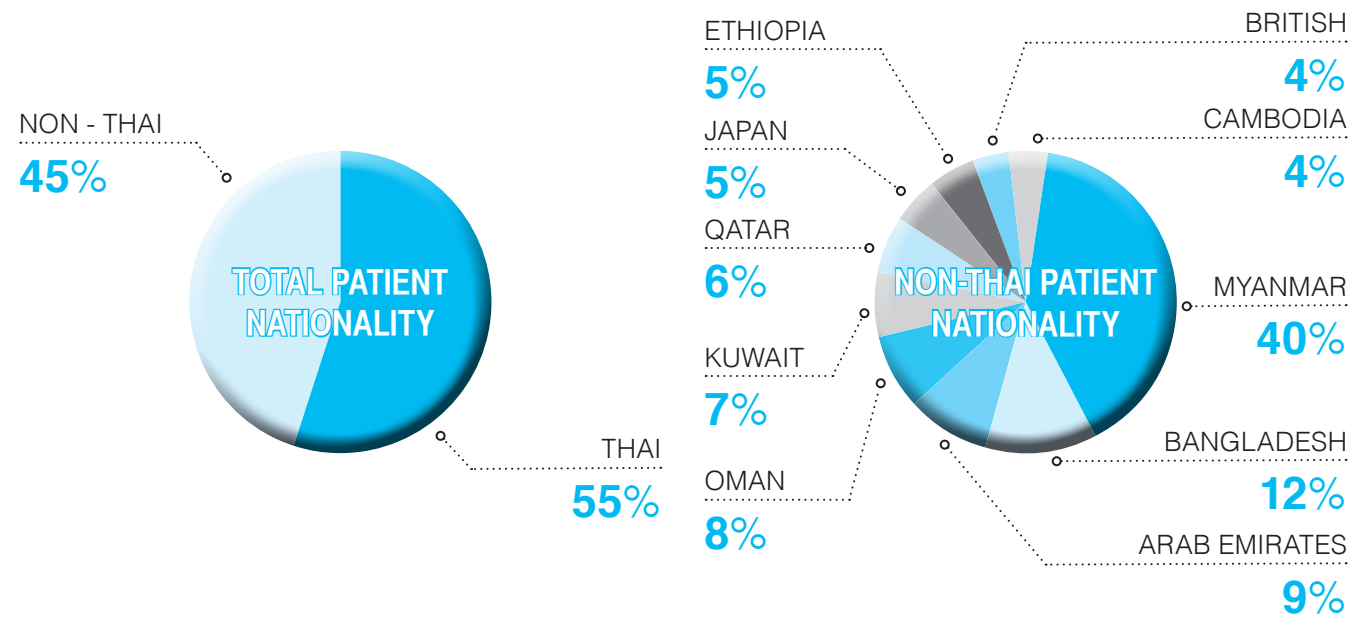
REFERING HOSPITAL



BGH = Consult from Bangkok general hospital
 WSH only = WATTANOSOTH HOSPITAL
 BPH = BANGKOK PATTAYA HOSPITAL
 BNH = BNH HOSPITAL
 BKH = BANGKOK RATCHASIMA HOSPITAL
 BRH = BANGKOK RAYONG HOSPITAL
 BCH = BANGKOK CHANTHABURI HOSPITAL
 PYT Group = Payathai hospital Group

BGH only = Not consult from Bangkok general hospital
 SVH = SAMITVEJ SUKHUMVIT HOSPITAL
 BPK = BANGKOK PHUKET HOSPITAL
 SSH = SAMITVEJ SRIRACHA HOSPITAL
 SNH = SAMITVEJ SRINAKARIN HOSPITAL
 BHH = BANGKOK HATYAI HOSPITAL
 BHN = BANGKOK HUAHIN HOSPITAL
 Paolo Group = Paolo memorial hospital Group

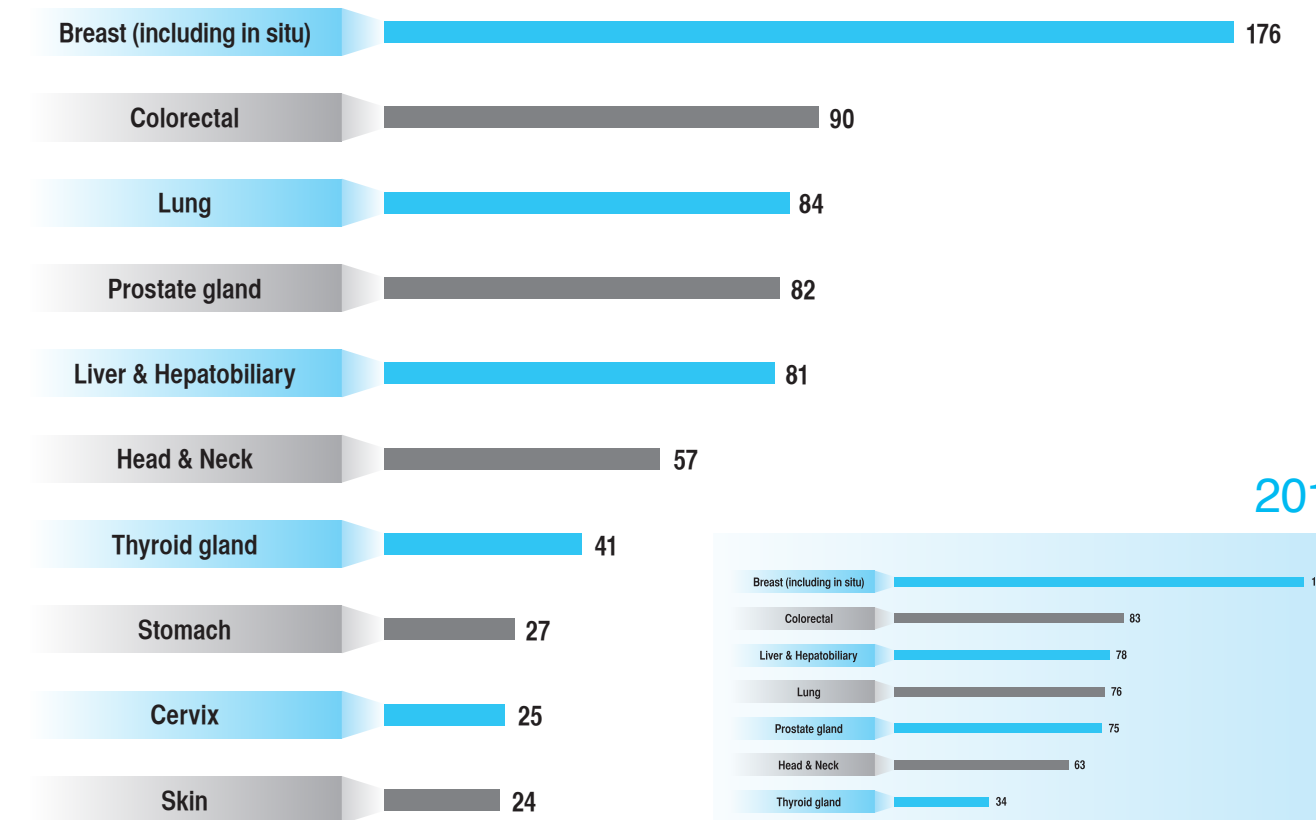
PATIENT NATIONALITY



THE TOP 10 LEADING SITE OF NON-THAI PATIENT

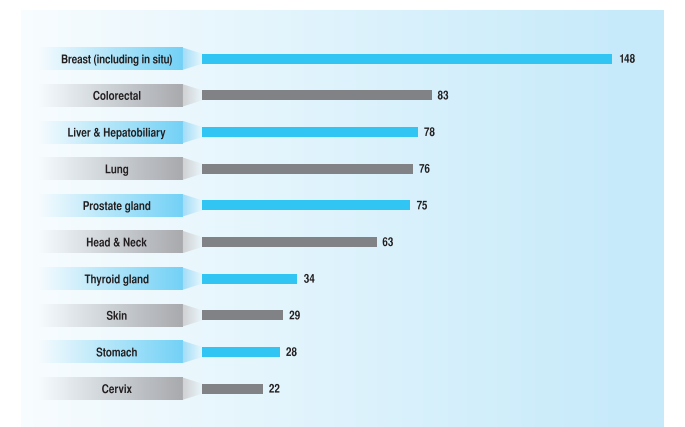
Code	Primary site	Male		Female		Total	
		Number	Percent	Number	Percent	Number	Percent
C50/D05	Breast (including in situ)	0	0.00	176	42.93	176	20.42
C18-C20	Colorectal	56	12.39	34	8.29	90	10.44
C33-C34	Lung	58	12.83	26	6.34	84	9.74
C61	Prostate gland	82	18.14	0	0.00	82	9.51
C22-C24	Liver & Hepatobiliary	62	13.72	19	4.63	81	9.40
C00-C14	Head & Neck	40	8.85	17	4.15	57	6.61
C73	Thyroid gland	8	1.77	33	8.05	41	4.76
C16	Stomach	20	4.42	7	1.71	27	3.13
C53	Cervix	0	0.00	25	6.10	25	2.90
C44	Skin	16	3.54	8	1.95	24	2.78

TOP 10 CANCER OF NON-THAI PATIENT ALL GENDER

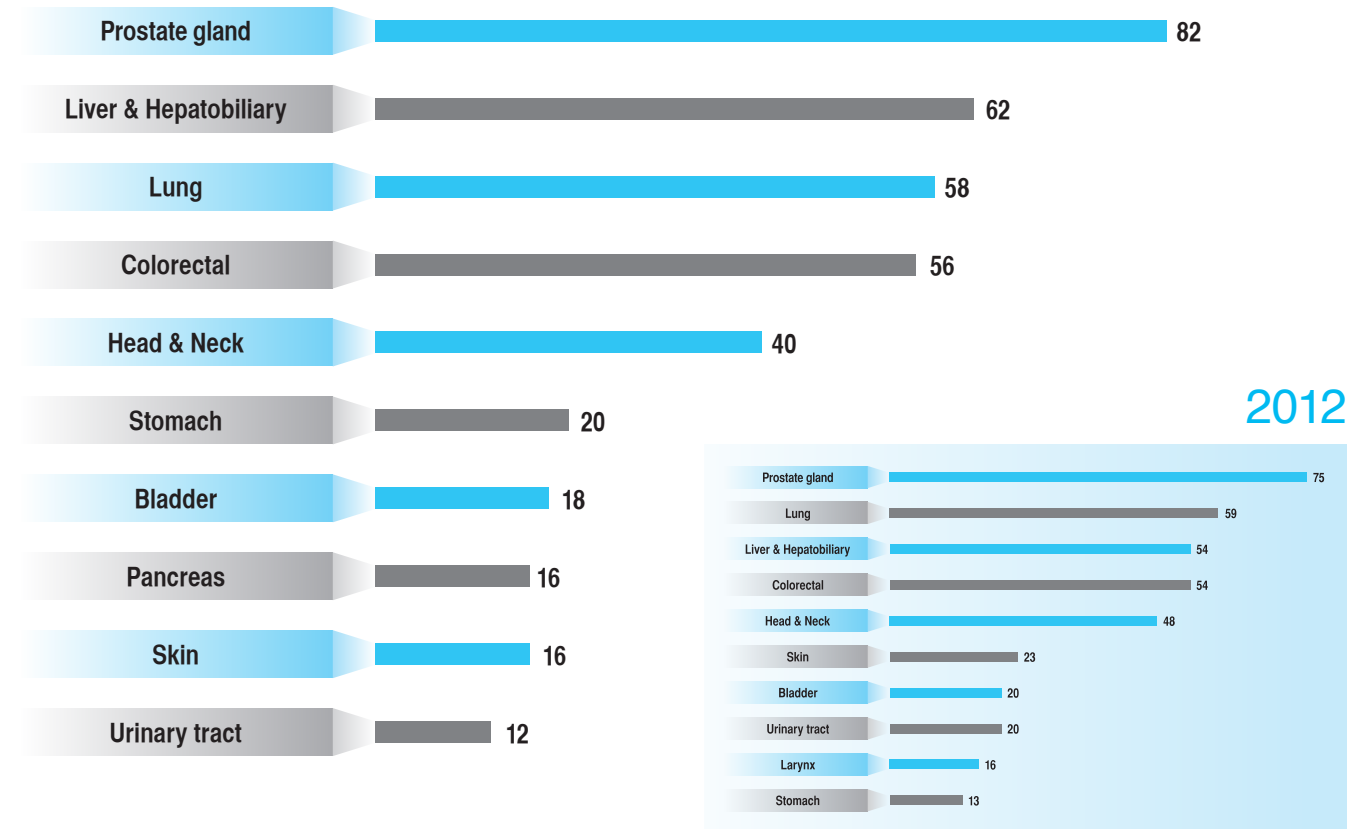


OVERALL CANCER

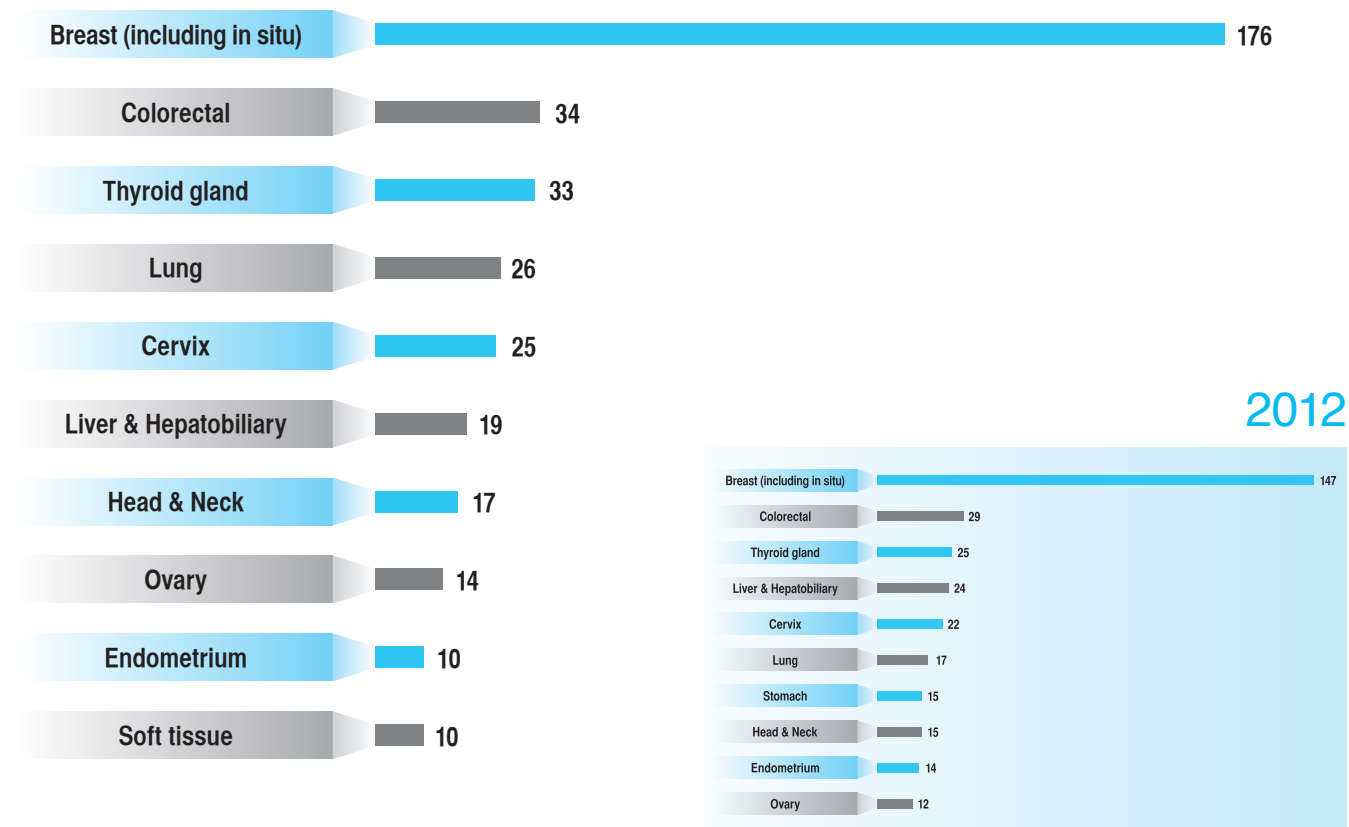
2012



TOP 10 CANCER OF NON-THAI PATIENT IN MALE



TOP 10 CANCER OF NON-THAI PATIENT IN FEMALE



BREAST CANCER : PATHOLOGY

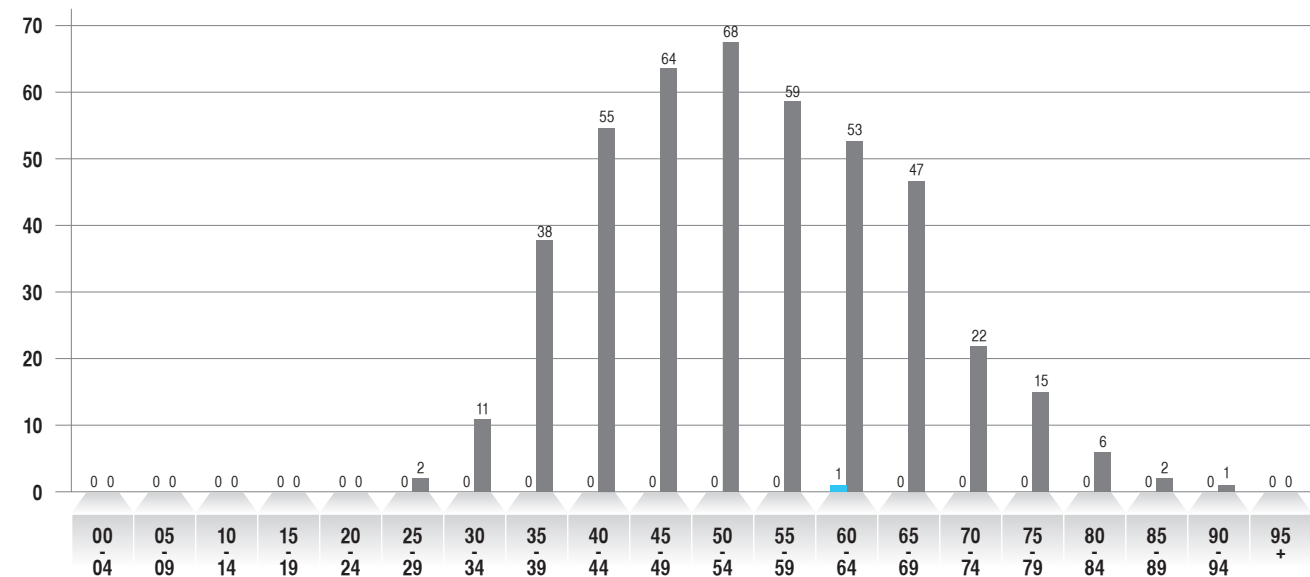
Tumor site	Number
C50.0 Nipple	8
C50.1 Central portion of breast	6
C50.2 Upper-inner quadrant of breast	30
C50.3 Lower-inner quadrant of breast	21
C50.4 Upper-outer quadrant of breast	111
C50.5 Lower-outer quadrant of breast	22
C50.8 Overlapping lesion of breast	13
C50.9 Breast, NOS	233
Total	444

Pathology Report	Number
M8000/3 Malignant neoplasm	104
M8050/3 Papillary carcinoma, NOS	5
M8070/3 Squamous cell carcinoma, NOS	1
M8140/3 Adenocarcinoma, NOS	2
M8211/3 Tubular carcinoma, NOS	2
M8480/3 Mucinous carcinoma	2
M8500/2 Ductal carcinoma in situ	35
M8500/3 Invasive ductal carcinoma	267
M8501/2 Ductal carcinoma in situ, comedo type	1
M8503/2 Ductal carcinoma in situ, papillary	1
M8510/3 Medullary carcinoma, NOS	2
M8520/2 Lobular carcinoma in situ	1
M8520/3 Lobular carcinoma	15
M8522/3 Invasive ductal and lobular carcinoma	1
M8523/3 Invasive duct mixed with other type of carcinoma	2
M8575/3 Metaplastic carcinoma, NOS	1
M9020/3 Malignant phyllodes tumor	2
Total	444

AGE AND GENDER

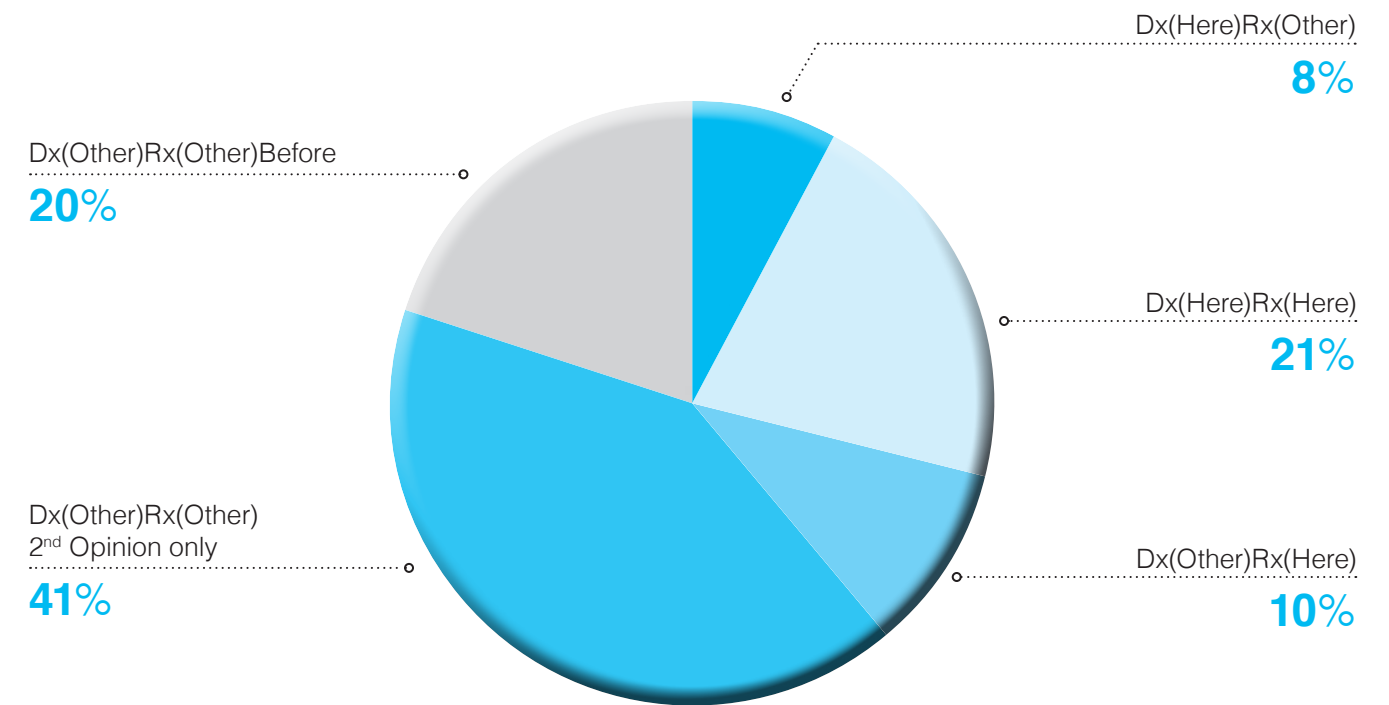
Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
00 - 04	0	0.00	0	0.00	0	0.00
05 - 09	0	0.00	0	0.00	0	0.00
10 - 14	0	0.00	0	0.00	0	0.00
15 - 19	0	0.00	0	0.00	0	0.00
20 - 24	0	0.00	0	0.00	0	0.00
25 - 29	0	0.00	2	0.45	2	0.45
30 - 34	0	0.00	11	2.48	11	2.48
35 - 39	0	0.00	38	8.58	38	8.56
40 - 44	0	0.00	55	12.42	55	12.39
45 - 49	0	0.00	64	14.45	64	14.41
50 - 54	0	0.00	68	15.35	68	15.32
55 - 59	0	0.00	59	13.32	59	13.29
60 - 64	1	100.00	53	11.96	54	12.16
65 - 69	0	0.00	47	10.61	47	10.59
70 - 74	0	0.00	22	4.97	22	4.95
75 - 79	0	0.00	15	3.39	15	3.38
80 - 84	0	0.00	6	1.35	6	1.35
85 - 89	0	0.00	2	0.45	2	0.45
90 - 94	0	0.00	1	0.23	1	0.23
95 +	0	0.00	0	0.00	0	0.00
Total	1	100.00	443	100.00	444	100.00

■ Male ■ Female



PATIENT CATEGORY OF BREAST CANCER

Patient category	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Dx(Here)Rx(Other)	1	100.00	35	7.90	36	8.11
Dx(Here)Rx(Here)	0	0.00	95	21.44	95	21.40
Dx(Other)Rx(Here)	0	0.00	44	9.93	44	9.91
Dx(Other)Rx(Other) 2 nd Opinion only	0	0.00	180	40.63	180	40.54
Dx(Other)Rx(Other)Before	0	0.00	89	20.09	89	20.05
Total	1	100.00	443	100.00	444	100.00



Dx = Diagnosis for Cancer (Dx by Pathology, Cytology or Imaging)

Rx = Treatment

Here = Within Bangkok Hospital - Soonvijai

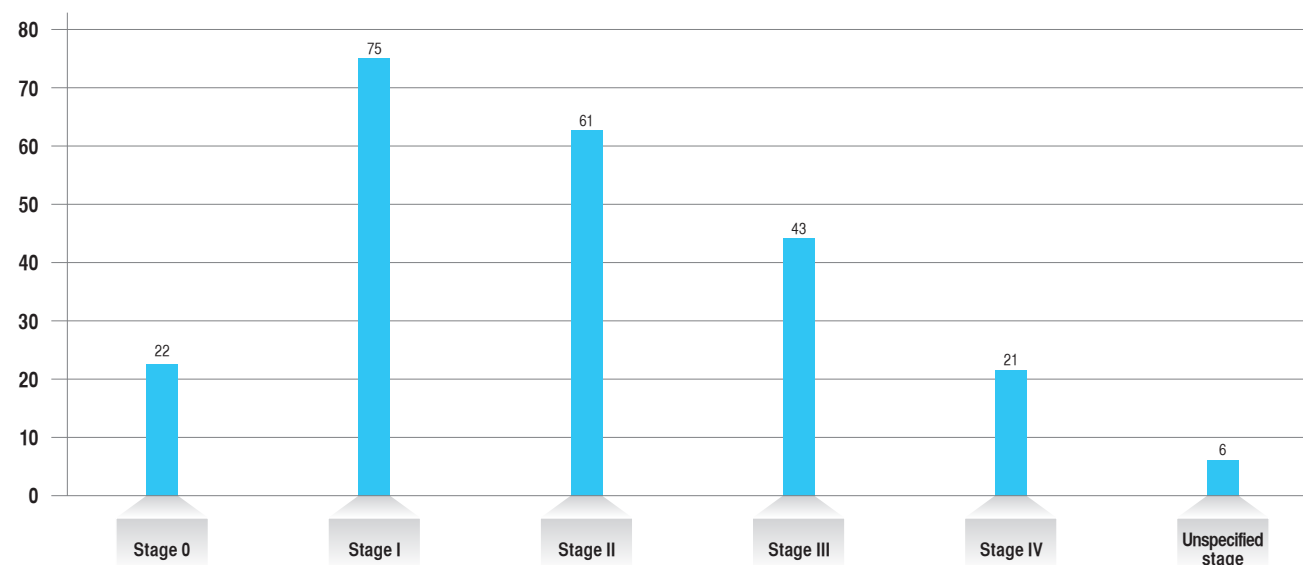
Other = Outside Bangkok Hospital - Soonvijai

METHOD OF DIAGNOSIS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

Method of diagnosis	Female	
	Number	Percent
Biochemical	0	0.00
Other	13	5.70
Cytology	0	0.00
Histology	215	94.30
Imaging	0	0.00
Total	228	100.00

Other = Previously diagnosed as Breast cancer from other Hospital but no documentation of diagnosis

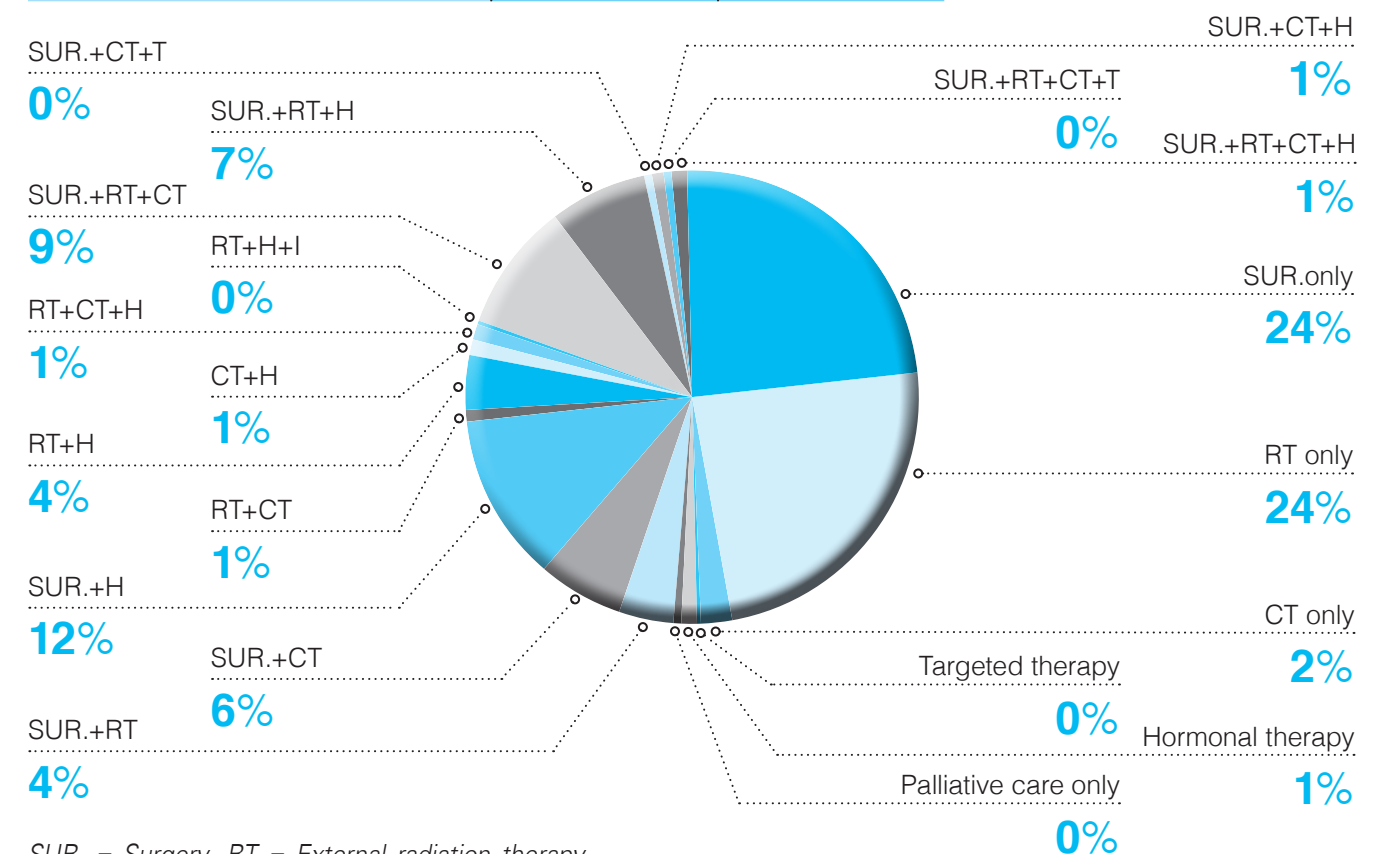
STAGING (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)



Unspecified stage = Incomplete staging due to insufficient patient information

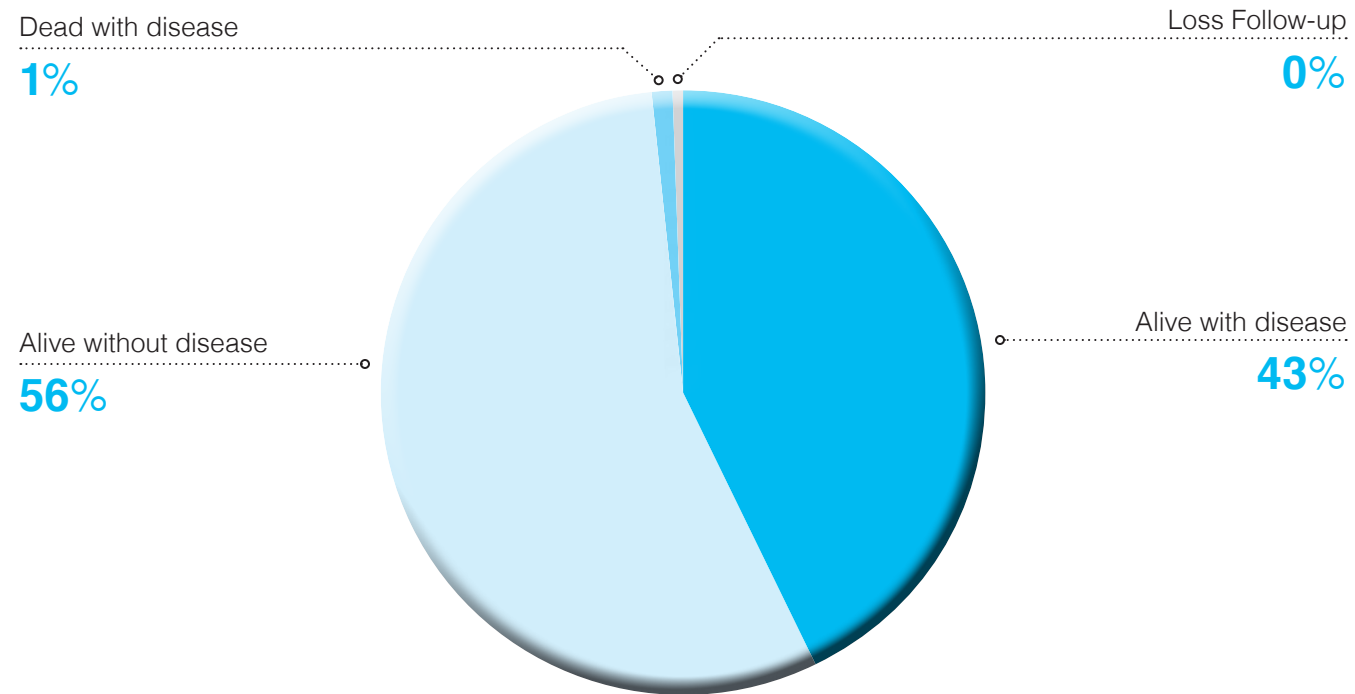
TYPE OF TREATMENT (IN BANGKOK HOSPITAL - SOONVIJAI ONLY)

Management of treatment	Female	
	Number	Percent
SUR.only	55	24.12
RT only	55	24.12
CT only	4	1.75
Targeted therapy	1	0.44
Hormonal therapy	2	0.88
Palliative care only	1	0.44
SUR.+RT	9	3.95
SUR.+CT	14	6.14
SUR.+H	27	11.84
RT+CT	2	0.88
RT+H	8	3.51
CT+H	2	0.88
RT+CT+H	2	0.88
RT+H+I	1	0.44
SUR+RT+CT	20	8.77
SUR+RT+H	17	7.46
SUR.+CT+T	1	0.44
SUR.+CT+H	3	1.32
SUR.+RT+CT+T	1	0.44
SUR.+RT+CT+H	3	1.32
Total	228	100.00



SUR. = Surgery, RT = External radiation therapy
CT = Chemotherapy, H (Hormone) = Hormonal therapy
T = Targeted therapy

FOLLOW UP STATUS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)



LUNG CANCER : PATHOLOGY

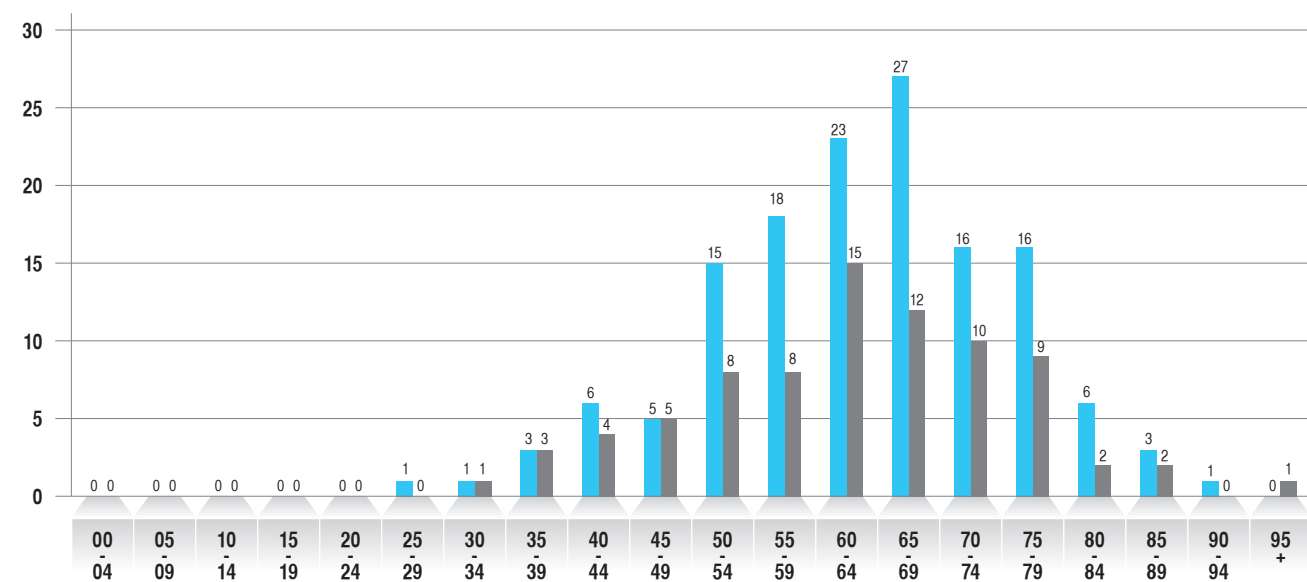
Tumor site		Number
C33.9	Trachea	1
C34.1	Upper lobe, lung	53
C34.2	Middle lobe, lung	4
C34.3	Lower lobe, lung	44
C34.9	Lung, NOS	119
Total		221

Pathology Report		Number
M8000/3	Malignant neoplasm	29
M8010/3	Carcinoma, NOS	4
M8012/3	Large cell carcinoma, NOS	1
M8021/3	Carcinoma anaplastic, NOS	1
M8022/3	Pleomorphic carcinoma	1
M8041/3	Small cell carcinoma, NOS	14
M8046/3	Non small cell carcinoma	20
M8070/3	Squamous cell carcinoma, NOS	17
M8072/3	Squamous cell carcinoma, large cell, nonkeratinizing, NOS	1
M8140/3	Adenocarcinoma, NOS	115
M8246/3	Neuroendocrine carcinoma, NOS	1
M8250/3	Bronchiolo-aveolar adenocarcinoma, NOS	11
M8260/3	Papillary adenocarcinoma, NOS	1
M8480/3	Mucinous adenocarcinoma	1
M8550/3	Acinar cell adenocarcinoma	2
M8560/3	Adenosquamous carcinoma	2
Total		221

AGE AND GENDER

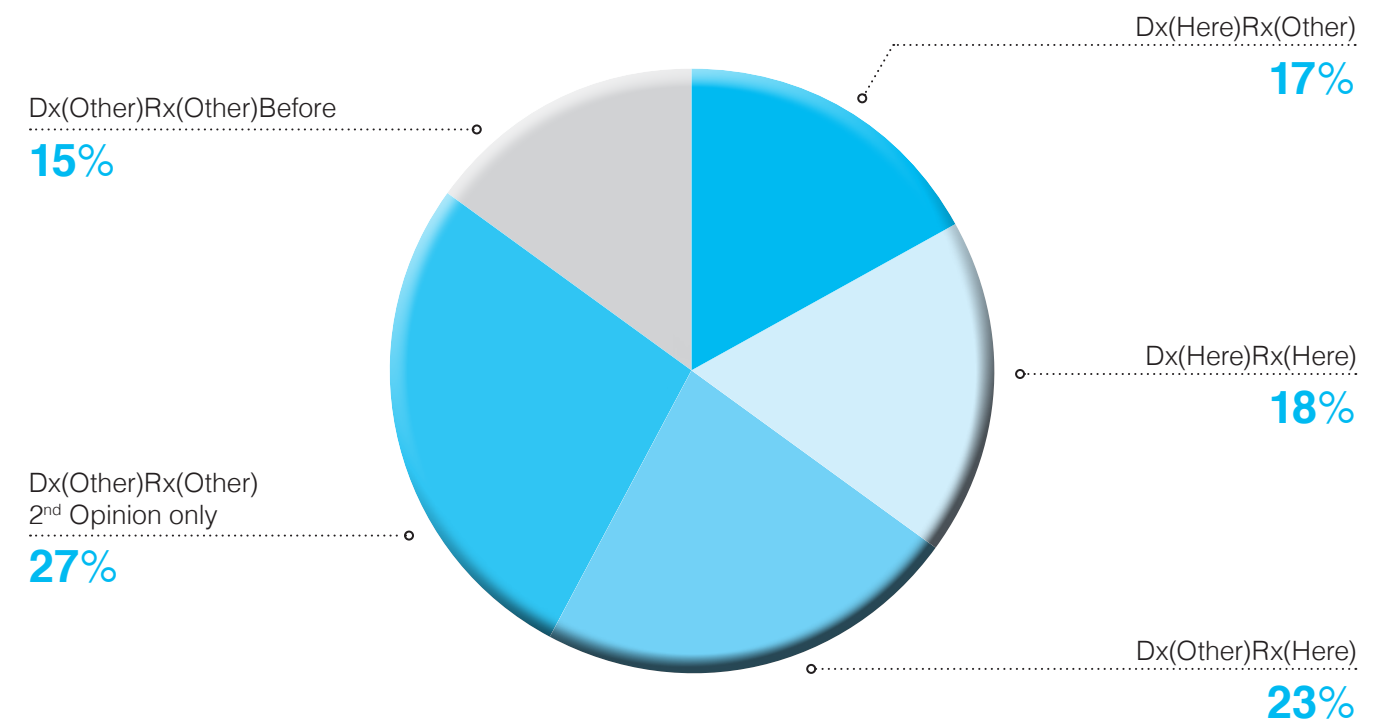
Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
00 - 04	0	0.00	0	0.00	0	0.00
05 - 09	0	0.00	0	0.00	0	0.00
10 - 14	0	0.00	0	0.00	0	0.00
15 - 19	0	0.00	0	0.00	0	0.00
20 - 24	0	0.00	0	0.00	0	0.00
25 - 29	1	0.71	0	0.00	1	0.45
30 - 34	1	0.71	1	1.25	2	0.90
35 - 39	3	2.13	3	3.75	6	2.71
40 - 44	6	4.26	4	5.00	10	4.52
45 - 49	5	3.55	5	6.25	10	4.52
50 - 54	15	10.64	8	10.00	23	10.41
55 - 59	18	12.77	8	10.00	26	11.76
60 - 64	23	16.31	15	18.75	38	17.19
65 - 69	27	19.15	12	15.00	39	17.65
70 - 74	16	11.35	10	12.50	26	11.76
75 - 79	16	11.35	9	11.25	25	11.31
80 - 84	6	4.26	2	2.50	8	3.62
85 - 89	3	2.13	2	2.50	5	2.26
90 - 94	1	0.71	0	0.00	1	0.45
95 +	0	0.00	1	1.25	1	0.45
Total	141	100.00	80	100.00	221	100.00

■ Male ■ Female



PATIENT CATEGORY OF LUNG CANCER

Patient category	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Dx(Here)Rx(Other)	25	17.73	12	15.00	37	16.74
Dx(Here)Rx(Here)	22	15.60	17	21.25	39	17.65
Dx(Other)Rx(Here)	37	26.24	15	18.75	52	23.53
Dx(Other)Rx(Other) 2 nd Opinion only	37	26.24	23	28.75	60	27.15
Dx(Other)Rx(Other)Before	20	14.18	13	16.25	33	14.93
Total	141	100.00	80	100.00	221	100.00



Dx = Diagnosis for Cancer (Dx by Pathology, Cytology or Imaging)

Rx = Treatment

Here = Within Bangkok Hospital - Soonvijai

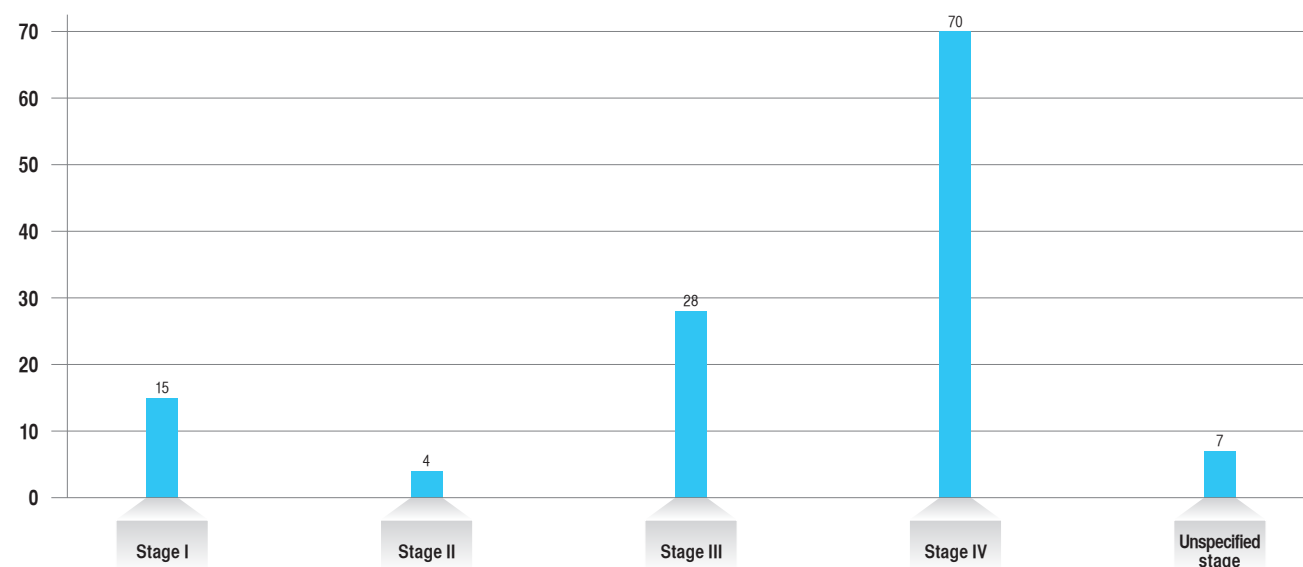
Other = Outside Bangkok Hospital - Soonvijai

METHOD OF DIAGNOSIS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

Method of diagnosis	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Other	2	2.53	3	6.67	5	4.03
Cytology	3	3.80	1	2.22	4	3.23
Histology	73	92.41	41	91.11	114	91.94
Imaging	1	1.27	0	0.00	1	0.81
Total	79	100.00	45	100.00	124	100.00

Other = Previously diagnosed as Lung cancer from other Hospital but no documentation of diagnosis

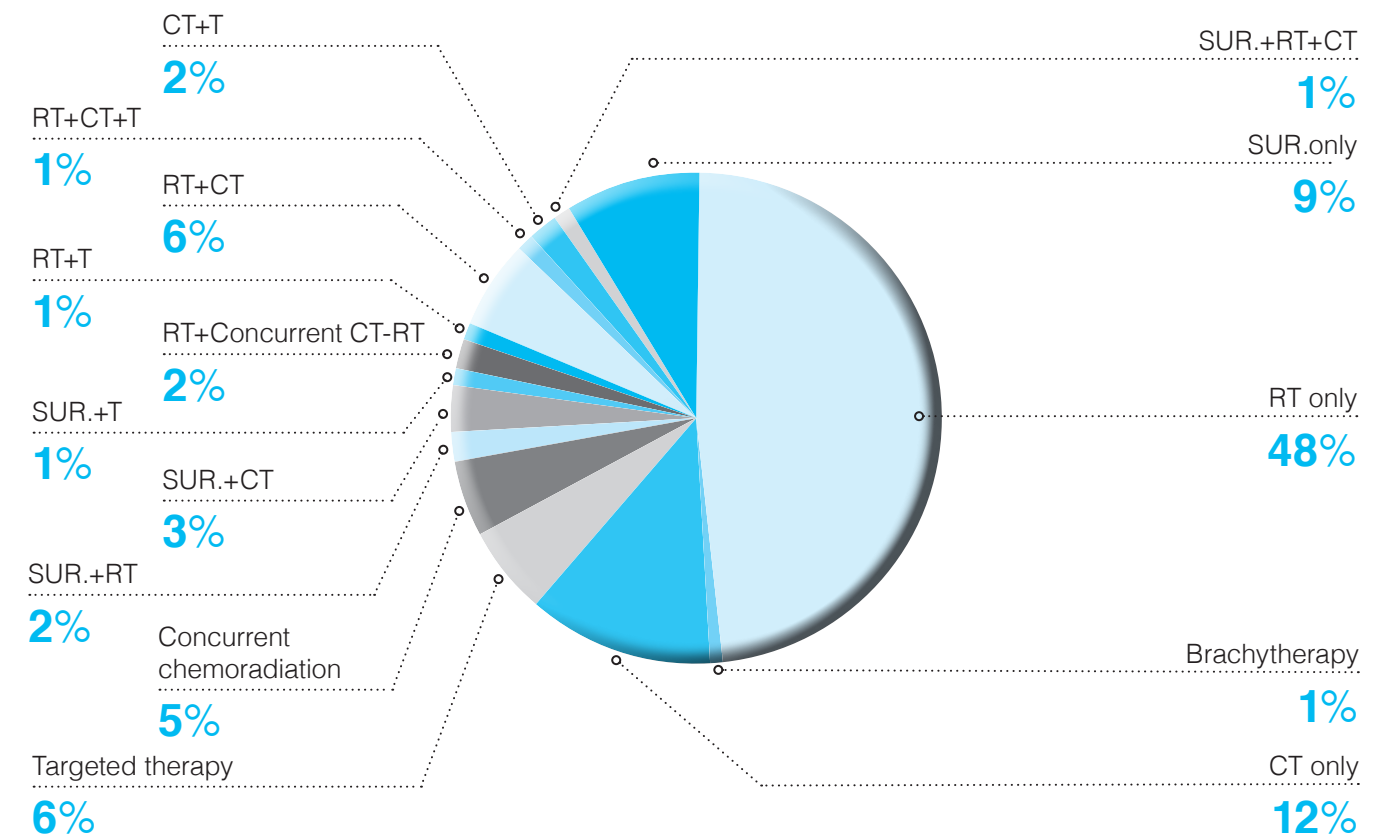
STAGING (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)



Unspecified stage = Incomplete staging due to insufficient patient information

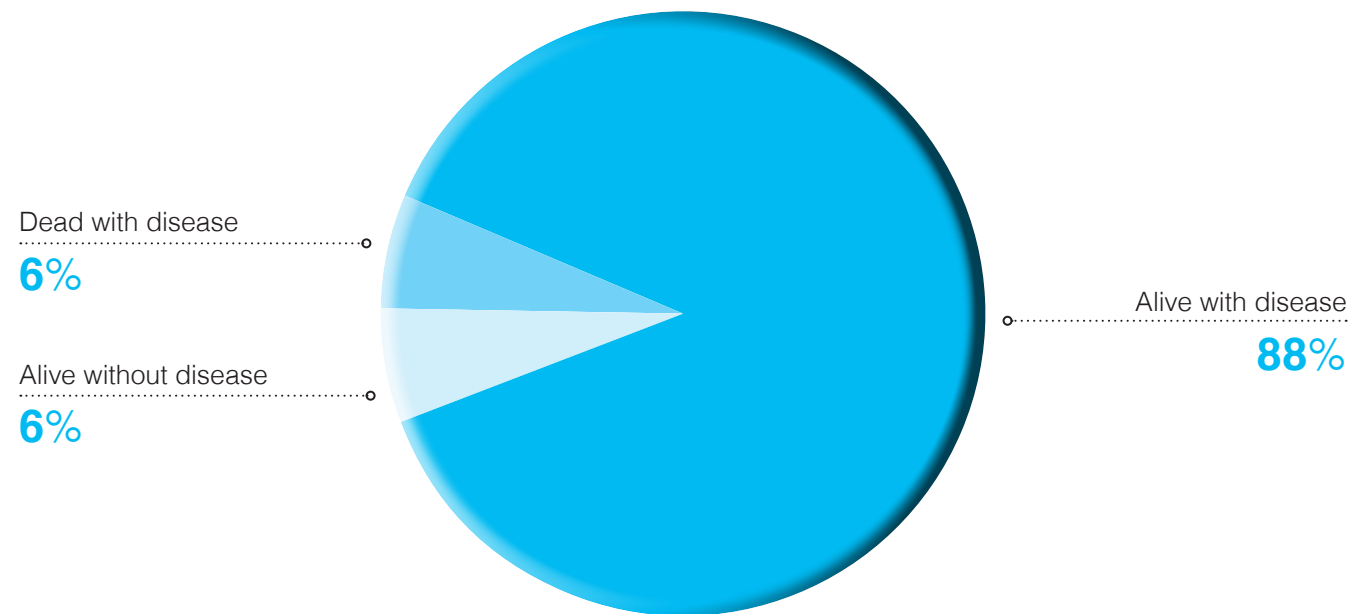
TYPE OF TREATMENT (IN BANGKOK HOSPITAL - SOONVIJAI ONLY)

Management of treatment	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
SUR.only	6	7.59	5	11.11	11	8.87
RT only	40	50.63	20	44.44	60	48.39
Brachytherapy	1	1.27	0	0.00	1	0.81
CT only	11	13.92	4	8.89	15	12.10
Targeted therapy	1	1.27	6	13.33	7	5.65
Concurrent chemoradiation	5	6.33	1	2.22	6	4.84
SUR.+RT	2	2.53	1	2.22	3	2.42
SUR.+CT	2	2.53	2	4.44	4	3.23
SUR.+T	1	1.27	0	0.00	1	0.81
RT+Concurrent CT-RT	1	1.27	2	4.44	3	2.42
RT+T	1	1.27	1	2.22	2	1.61
RT+CT	5	6.33	2	4.44	7	5.65
RT+CT+T	1	1.27	0	0.00	1	0.81
CT+T	2	2.53	0	0.00	2	1.60
SUR.+RT+CT	0	0.00	1	2.22	1	0.81
Total	79	100.00	45	100.00	124	100.00



SUR. = Surgery
RT = External radiation therapy
CT = Chemotherapy
T = Targeted therapy

FOLLOW UP STATUS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)



COLORECTAL CANCER : PATHOLOGY

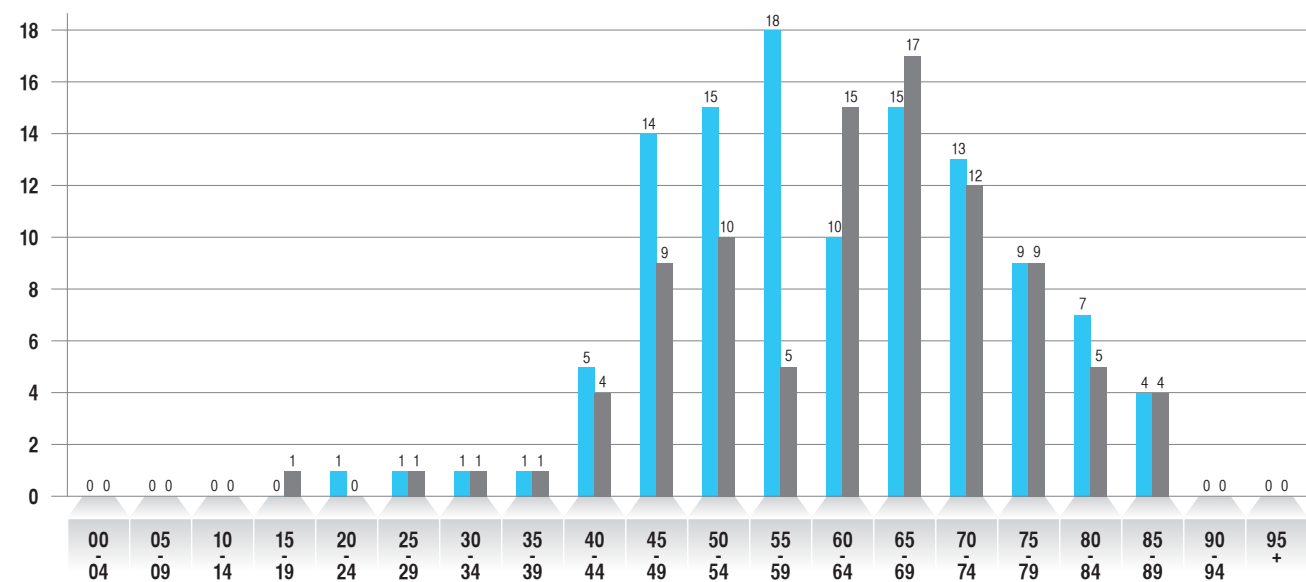
Tumor site		Number
C18.0	Cecum colon	9
C18.2	Ascending colon	10
C18.3	Hepatic flexure of colon	5
C18.4	Transverse colon	6
C18.5	Splenic flexure of colon	1
C18.6	Descending colon	5
C18.7	Sigmoid colon	40
C18.9	Colon, NOS	40
C19.9	Rectosigmoid colon	19
C20.9	Rectum	73
Total		208

Pathology Report		Number
M8000/3	Malignant neoplasm	55
M8140/3	Adenocarcinoma	133
M8240/3	Carcinoid tumor, NOS	1
M8246/3	Neuroendocrine carcinoma, NOS	1
M8480/3	Mucinous adenocarcinoma	10
M8481/3	Mucin producing adenocarcinoma	2
M8490/3	Adenocarcinoma signet ring cell type	6
Total		208

AGE AND GENDER

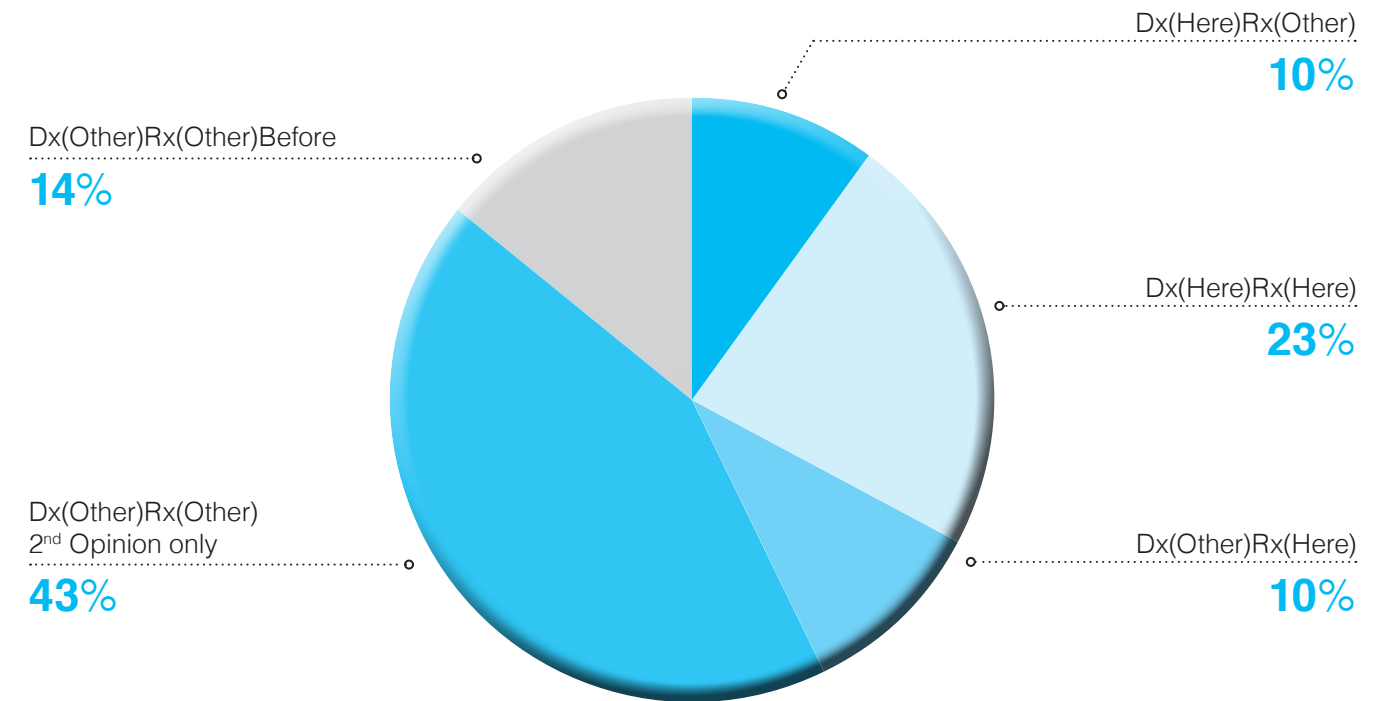
Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
00 - 04	0	0.00	0	0.00	0	0.00
05 - 09	0	0.00	0	0.00	0	0.00
10 - 14	0	0.00	0	0.00	0	0.00
15 - 19	0	0.00	1	1.06	1	0.48
20 - 24	1	0.88	0	0.00	1	0.48
25 - 29	1	0.88	1	1.06	2	0.96
30 - 34	1	0.88	1	1.06	2	0.96
35 - 39	1	0.88	1	1.06	2	0.96
40 - 44	5	4.39	4	4.26	9	4.33
45 - 49	14	12.28	9	9.57	23	11.06
50 - 54	15	13.16	10	10.64	25	12.02
55 - 59	18	15.79	5	5.32	23	11.06
60 - 64	10	8.77	15	15.96	25	12.02
65 - 69	15	13.16	17	18.09	32	15.38
70 - 74	13	11.40	12	12.77	25	12.02
75 - 79	9	7.89	9	9.57	18	8.65
80 - 84	7	6.14	5	5.32	12	5.77
85 - 89	4	3.51	4	4.26	8	3.85
90 - 94	0	0.00	0	0.00	0	0.00
95 +	0	0.00	0	0.00	0	0.00
Total	114	100.00	94	100.00	208	100.00

■ Male ■ Female



PATIENT CATEGORY OF COLORECTAL CANCER

Patient category	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Dx(Here)Rx(Other)	14	12.28	7	7.45	21	10.10
Dx(Here)Rx(Here)	23	20.18	25	26.60	48	23.08
Dx(Other)Rx(Here)	13	11.40	7	7.45	20	9.62
Dx(Other)Rx(Other) 2 nd Opinion only	47	41.23	42	44.68	89	42.79
Dx(Other)Rx(Other)Before	17	14.91	13	13.83	30	14.42
Total	114	100.00	94	100.00	208	100.00



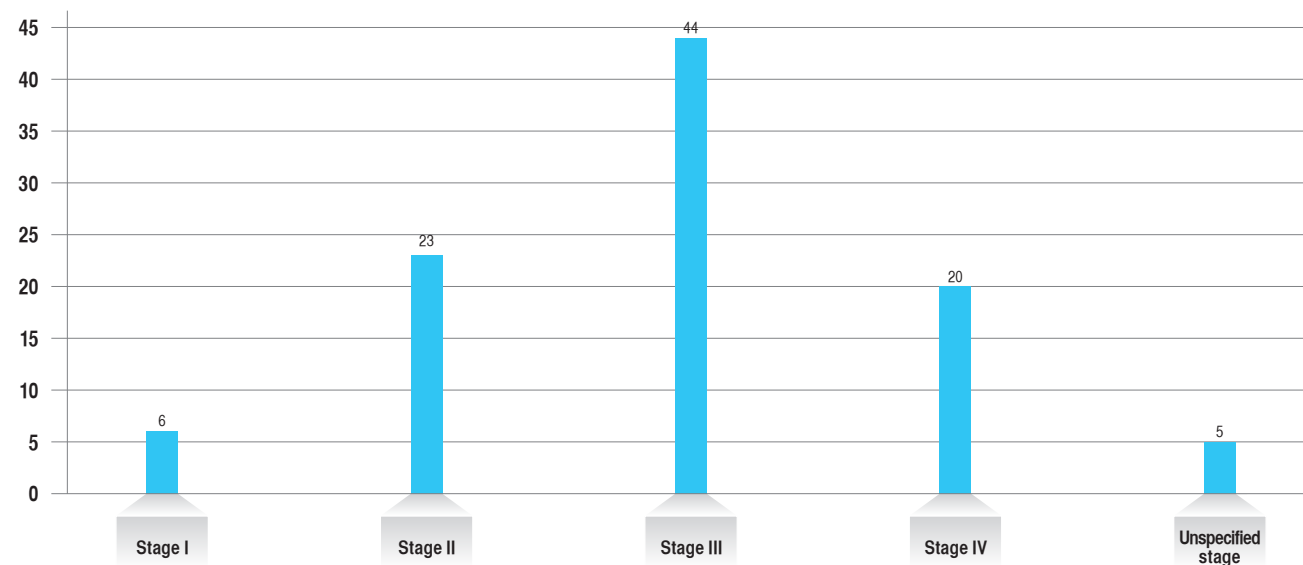
Dx = Diagnosis for Cancer (Dx by Pathology, Cytology or Imaging)
 Rx = Treatment
 Here = Within Bangkok Hospital - Soonvijai
 Other = Outside Bangkok Hospital - Soonvijai

METHOD OF DIAGNOSIS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

Method of diagnosis	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Biochemical	0	0.00	0	0.00	0	0.00
Other	2	3.77	1	2.22	3	3.06
Cytology	0	0.00	0	0.00	0	0.00
Histology	51	96.23	44	97.78	95	96.94
Imaging	0	0.00	0	0.00	0	0.00
Total	53	100.00	45	100.00	98	100.00

Other = Previously diagnosed as Colorectal cancer from other Hospital but no documentation of diagnosis

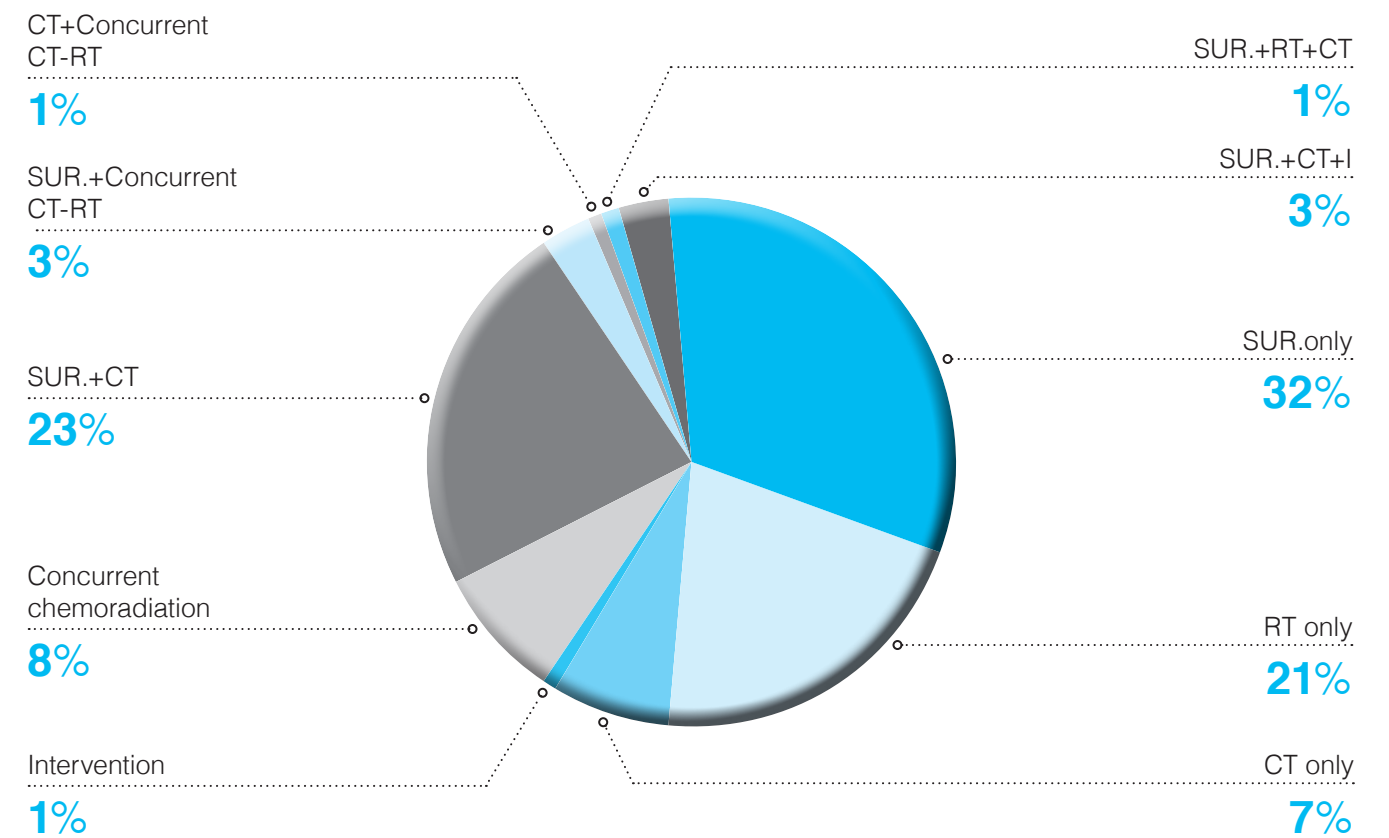
STAGING (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)



Unspecified stage = Incomplete staging due to insufficient patient information

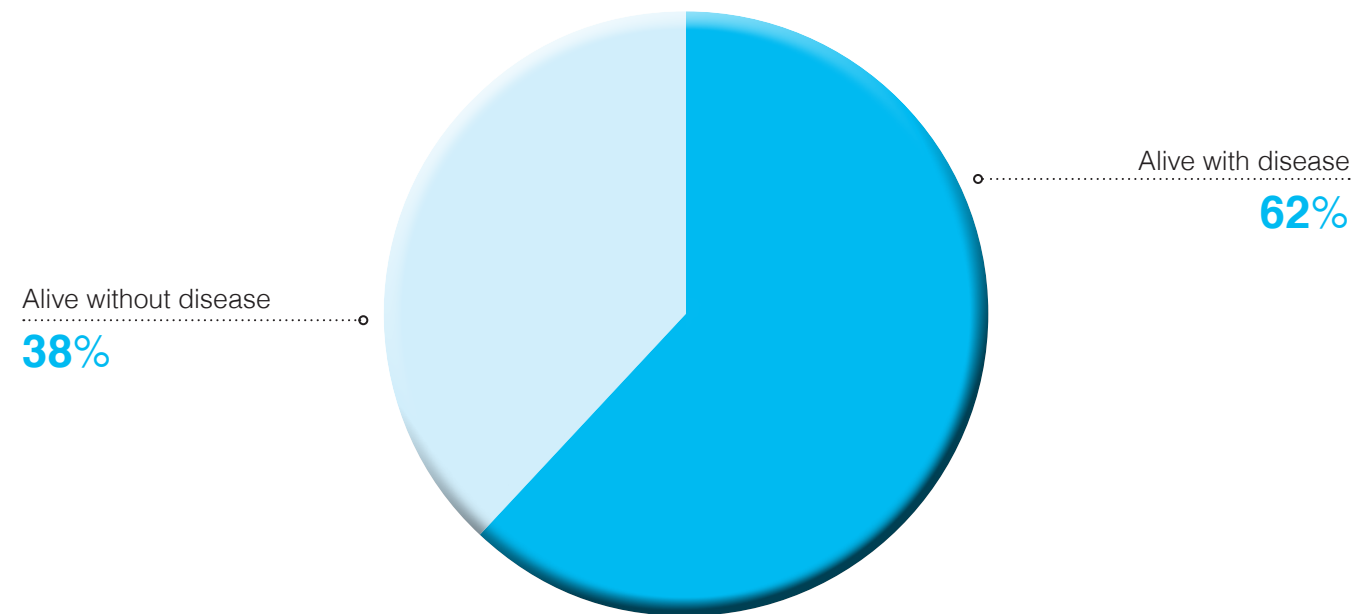
TYPE OF TREATMENT (IN BANGKOK HOSPITAL - SOONVIJAI ONLY)

Management of treatment	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
SUR.only	15	28.30	16	35.56	31	31.63
RT only	13	24.53	9	20.00	21	21.43
CT only	4	7.55	3	6.67	7	7.14
Intervention	1	1.89	0	0.00	1	1.02
Concurrent chemoradiation	6	11.32	2	4.44	8	8.16
SUR.+CT	12	22.64	10	22.22	22	22.45
SUR.+Concurrent CT-RT	1	1.89	2	4.44	3	3.06
CT+Concurrent CT-RT	1	1.89	0	0.00	1	1.02
SUR.+RT+CT	0	0.00	1	2.22	1	1.02
SUR.+CT+I	0	0.00	2	4.44	3	3.06
Total	53	100.00	45	100.00	98	100.00



SUR. = Surgery
RT = External radiation therapy
CT = Chemotherapy
T = Targeted therapy

FOLLOW UP STATUS (PATIENT TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)



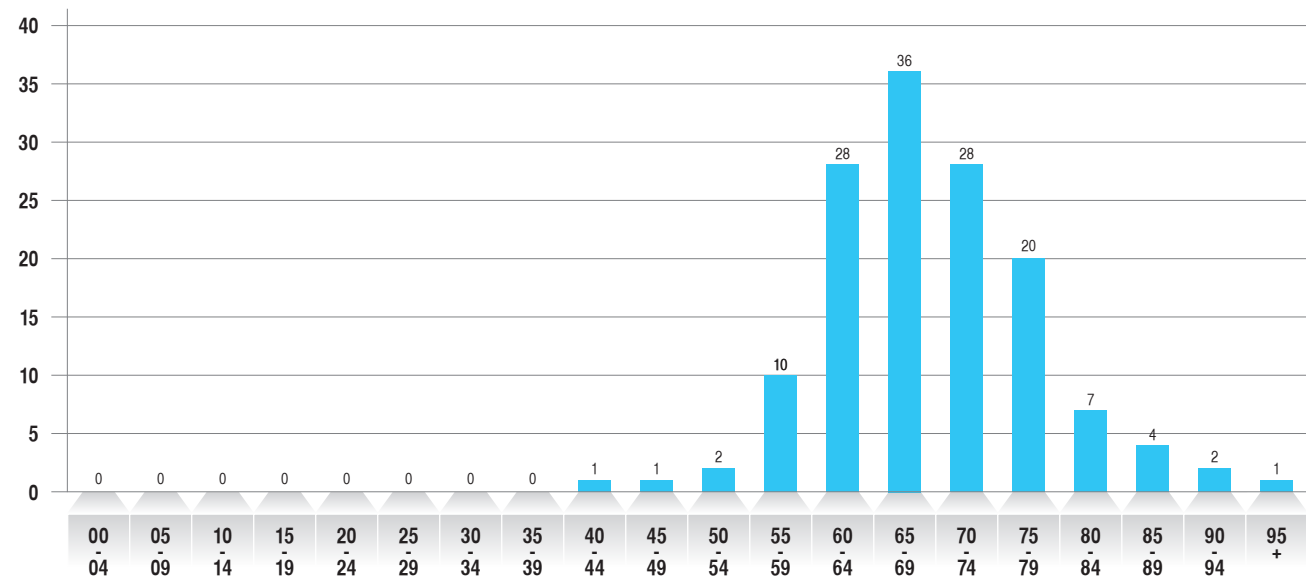
PROSTATE GLAND CANCER : PATHOLOGY

Tumor site		Number
C61.9	Prostate gland	140
Total		140

Pathology Report		Number
M8000/3	Malignant neoplasm	50
M8140/3	Adenocarcinoma, NOS	41
M8550/3	Acinar adenocarcinoma	49
Total		140

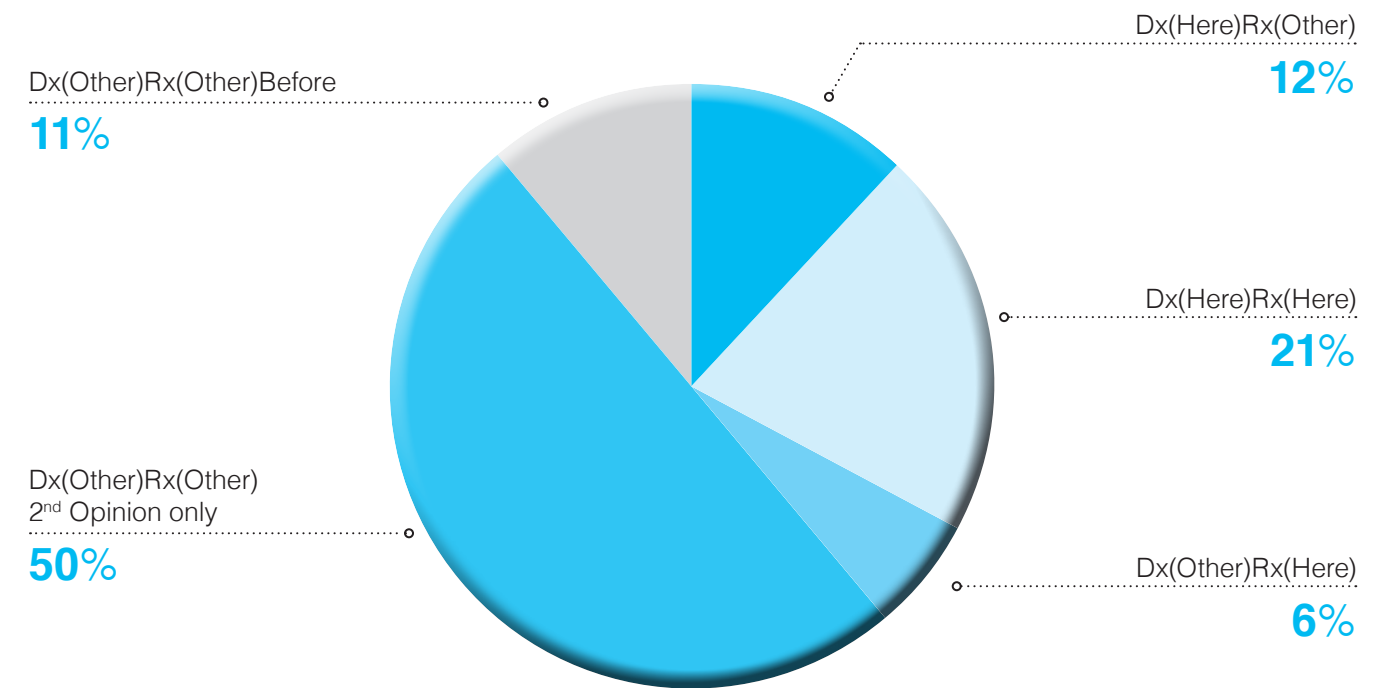
AGE

Age	Male	
	Number	Percent
00 - 04	0	0.00
05 - 09	0	0.00
10 - 14	0	0.00
15 - 19	0	0.00
20 - 24	0	0.00
25 - 29	0	0.00
30 - 34	0	0.00
35 - 39	0	0.00
40 - 44	1	0.71
45 - 49	1	0.71
50 - 54	2	1.43
55 - 59	10	7.14
60 - 64	28	20.00
65 - 69	36	25.71
70 - 74	28	20.00
75 - 79	20	14.29
80 - 84	7	5.00
85 - 89	4	2.86
90 - 94	2	1.43
95 +	1	0.71
Total	140	100.00



PATIENT CATEGORY OF PROSTATE GLAND CANCER

Patient category	Male	
	Number	Percent
Dx(Here)Rx(Other)	17	12.14
Dx(Here)Rx(Here)	29	20.71
Dx(Other)Rx(Here)	8	5.71
Dx(Other)Rx(Other) 2 nd Opinion only	70	50.00
Dx(Other)Rx(Other)Before	16	11.43
Total	140	100.00



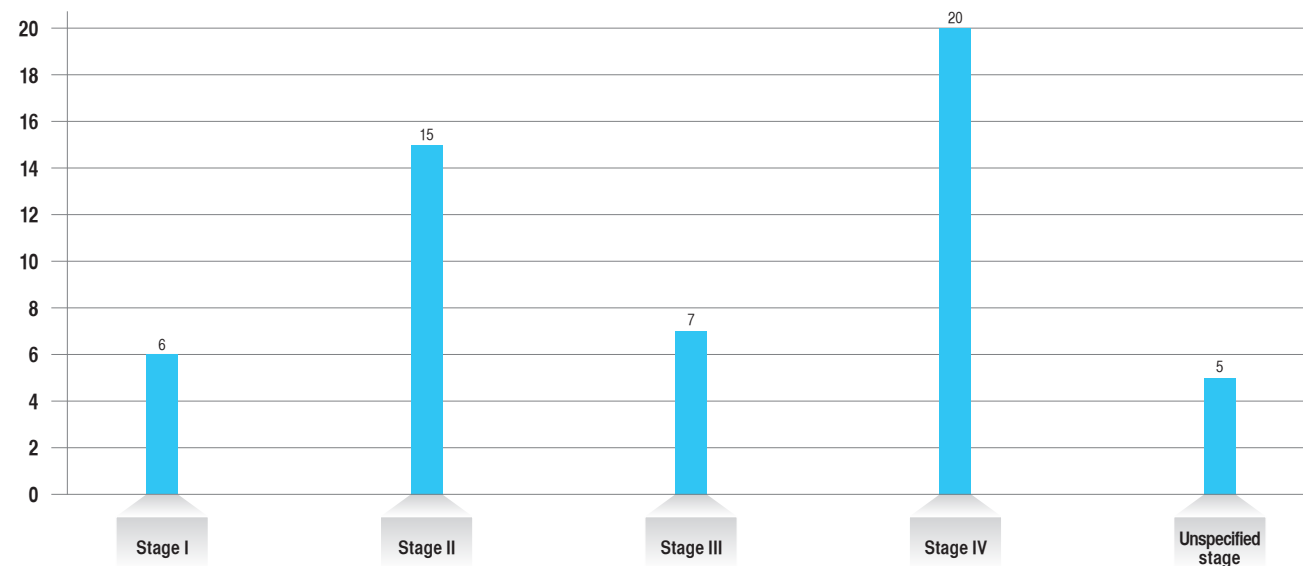
Dx = Diagnosis for Cancer (Dx by Pathology, Cytology or Imaging)
 Rx = Treatment
 Here = Within Bangkok Hospital - Soonvijai
 Other = Outside Bangkok Hospital - Soonvijai

METHOD OF DIAGNOSIS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

Method of diagnosis	Male	
	Number	Percent
Other	6	11.32
Histology	46	86.79
Imaging	1	1.89
Total	53	100.00

Other = Previously diagnosed as Head and Neck cancer from other Hospital but no document of Pathology

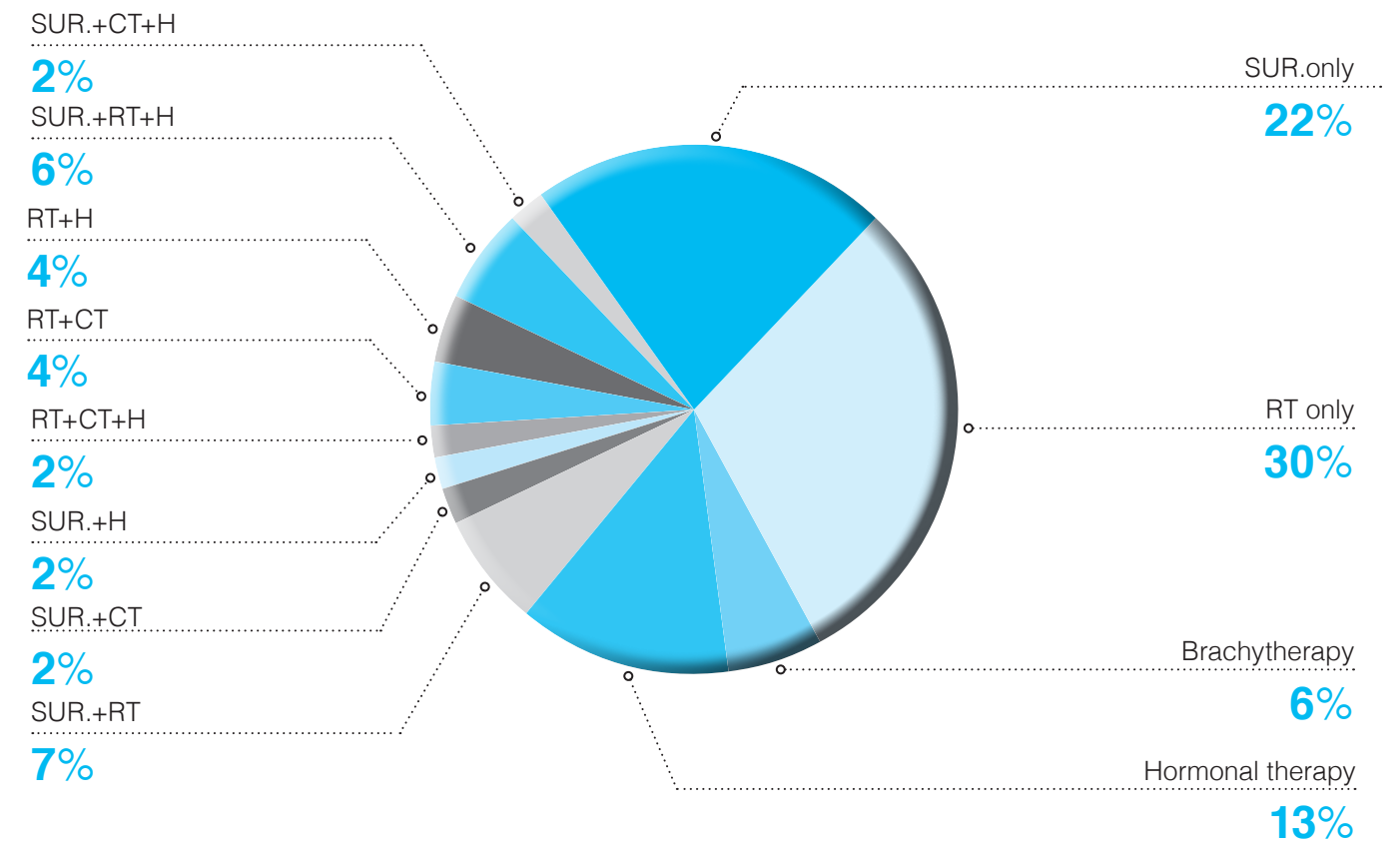
STAGING (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)



Unspecified stage = Incomplete staging due to insufficient patient information

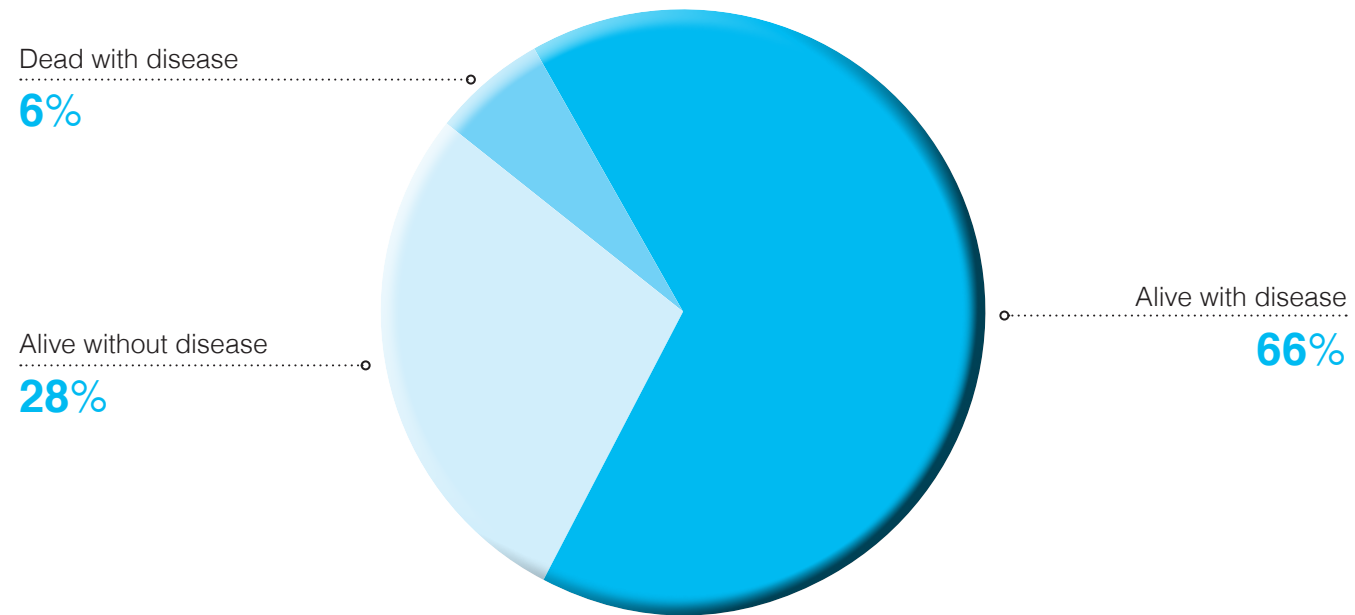
TYPE OF TREATMENT (IN BANGKOK HOSPITAL - SOONVIJAI ONLY)

Management of treatment	Male	
	Number	Percent
SUR.only	12	22.64
RT only	16	30.19
Brachytherapy	3	5.66
Hormonal therapy	7	13.21
SUR.+RT	4	7.55
SUR.+CT	1	1.89
SUR.+H	1	1.89
RT+CT+H	1	1.89
RT+CT	2	3.77
RT+H	2	3.77
SUR.+RT+H	3	5.66
SUR.+CT+H	1	1.89
Total	53	100.00



SUR. = Surgery
RT = External radiation therapy
CT = Chemotherapy
T = Targeted therapy

FOLLOW UP STATUS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

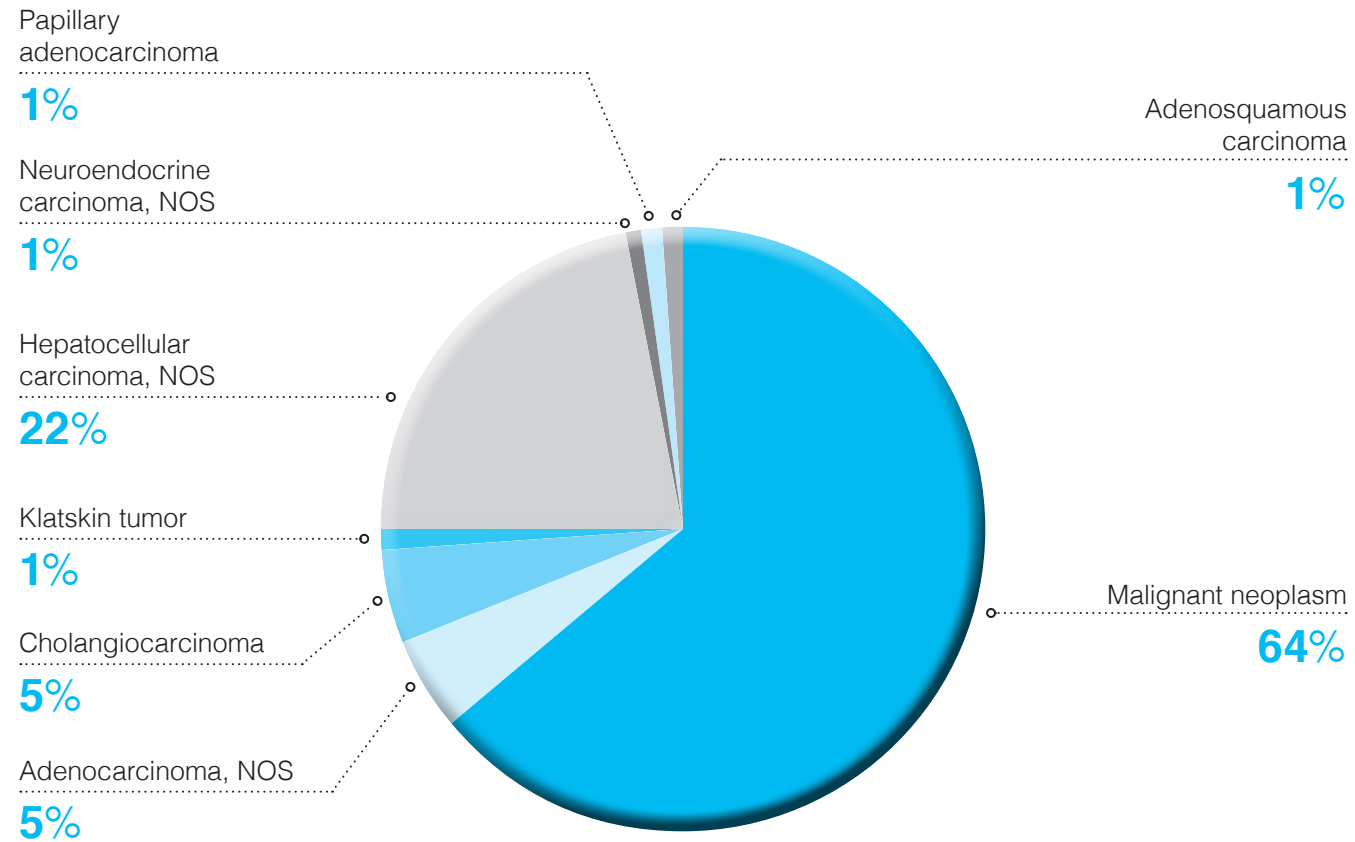


HEPATOBIILIARY CANCER : PATHOLOGY

Tumor site		Number
C22.0	Liver	111
C22.1	Liver (Pathology is M8160/3)	11
C23.9	Gall bladder	8
C24.1	Ampullar of vater	7
Total		137

Pathology Report		Number
M8000/3	Malignant neoplasm	88
M8140/3	Adenocarcinoma, NOS	7
M8160/3	Cholangiocarcinoma	7
M8162/3	Klatskin tumor	1
M8170/3	Hepatocellular carcinoma, NOS	30
M8246/3	Neuroendocrine carcinoma, NOS	1
M8260/3	Papillary adenocarcinoma	2
M8560/3	Adenosquamous carcinoma	1
Total		137

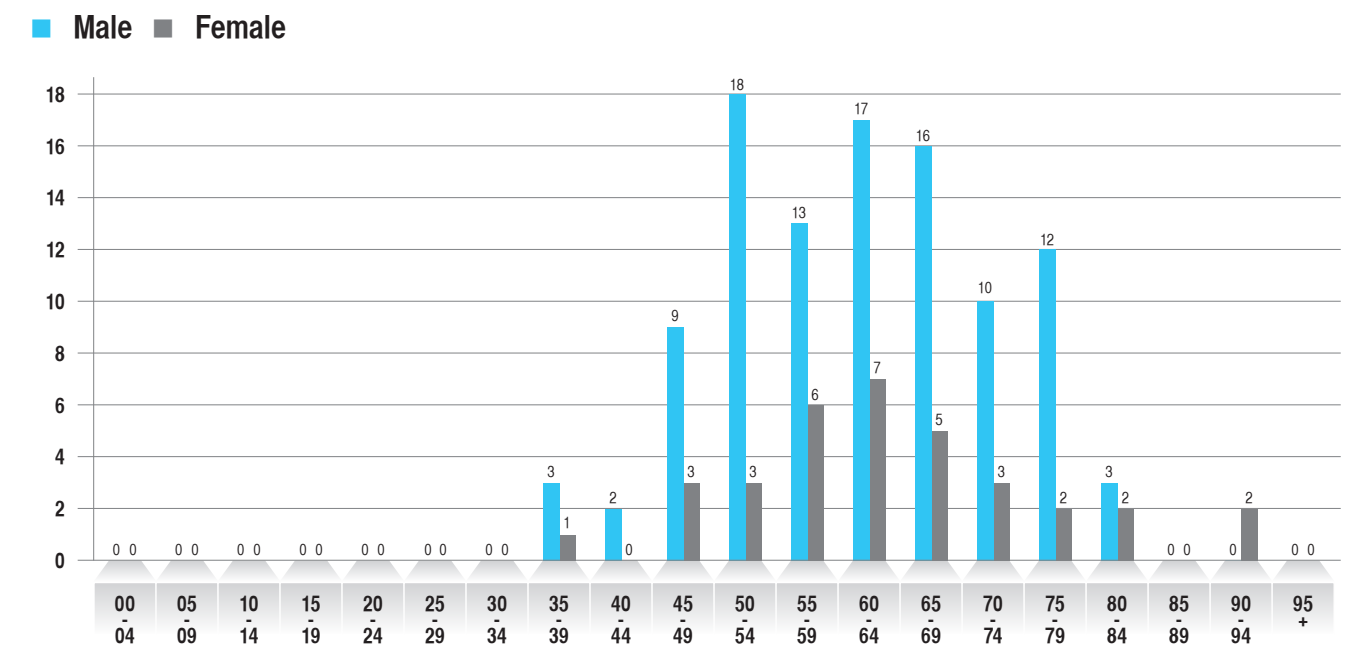
PATHOLOGY REPORT OF HEPATOBILIARY CANCER



Malignant neoplasm = Dx For Cancer but unknow special type

AGE AND GENDER

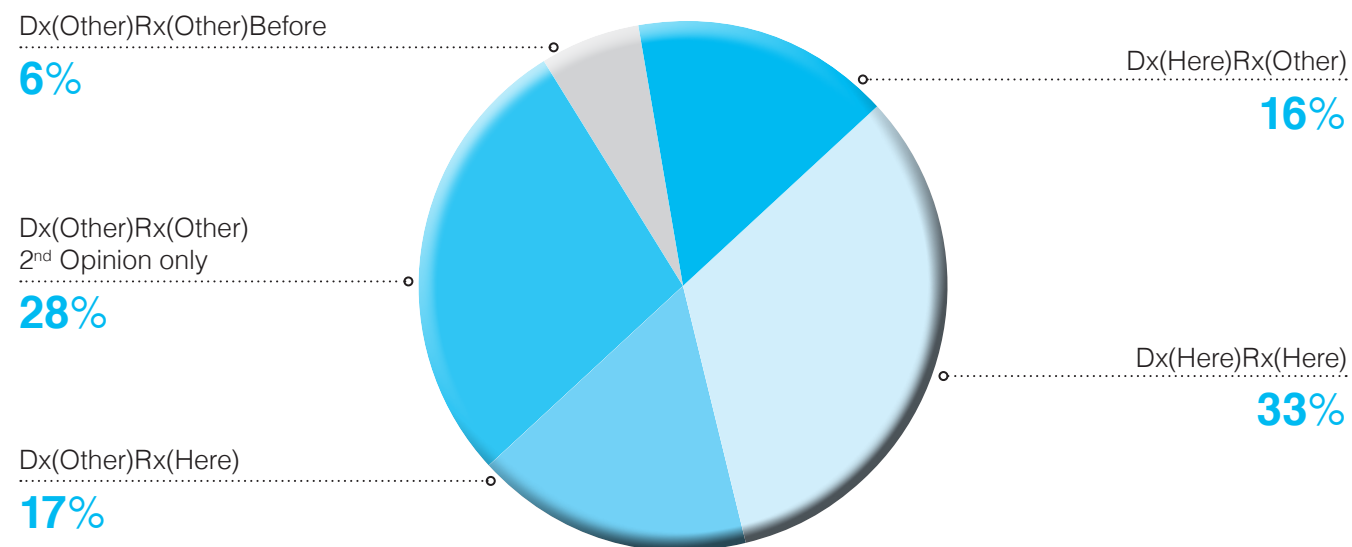
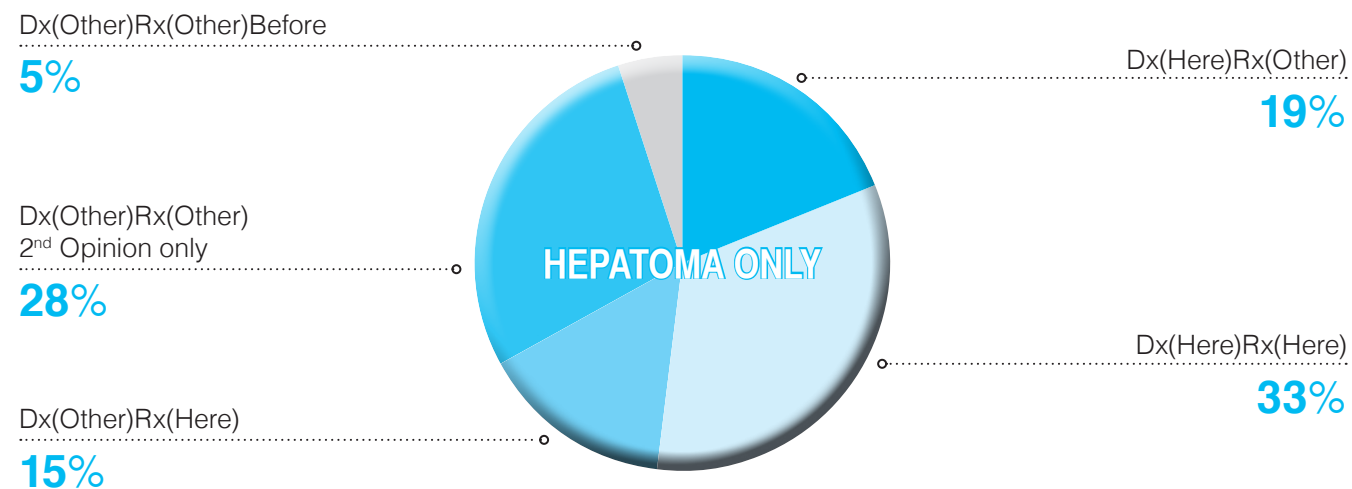
Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
00 - 04	0	0.00	0	0.00	0	0.00
05 - 09	0	0.00	0	0.00	0	0.00
10 - 14	0	0.00	0	0.00	0	0.00
15 - 19	0	0.00	0	0.00	0	0.00
20 - 24	0	0.00	0	0.00	0	0.00
25 - 29	0	0.00	0	0.00	0	0.00
30 - 34	0	0.00	0	0.00	0	0.00
35 - 39	3	2.91	1	2.94	4	2.92
40 - 44	2	1.94	0	0.00	2	1.46
45 - 49	9	8.74	3	8.82	12	8.76
50 - 54	18	17.48	3	8.82	21	15.33
55 - 59	13	12.62	6	17.65	19	13.87
60 - 64	17	16.50	7	20.59	24	17.52
65 - 69	16	15.53	5	14.71	21	15.33
70 - 74	10	9.71	3	8.82	13	9.49
75 - 79	12	11.65	2	5.88	14	10.22
80 - 84	3	2.91	2	5.88	5	3.65
85 - 89	0	0.00	0	0.00	0	0.00
90 - 94	0	0.00	2	5.88	2	1.46
95 +	0	0.00	0	0.00	0	0.00
Total	103	100.00	34	100.00	137	100.00



HEPATOBILIARY CANCER

PATIENT CATEGORY OF LIVER & HEPATOBILIARY

Patient category	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Dx(Here)Rx(Other)	18	17.48	4	11.76	22	16.06
Dx(Here)Rx(Here)	34	33.01	11	32.35	45	32.85
Dx(Other)Rx(Here)	18	17.48	5	14.71	23	16.79
Dx(Other)Rx(Other) 2 nd Opinion only	28	27.18	11	32.35	39	28.47
Dx(Other)Rx(Other)Before	5	4.85	3	8.82	8	5.84
Total	103	100.00	34	100.00	137	100.00



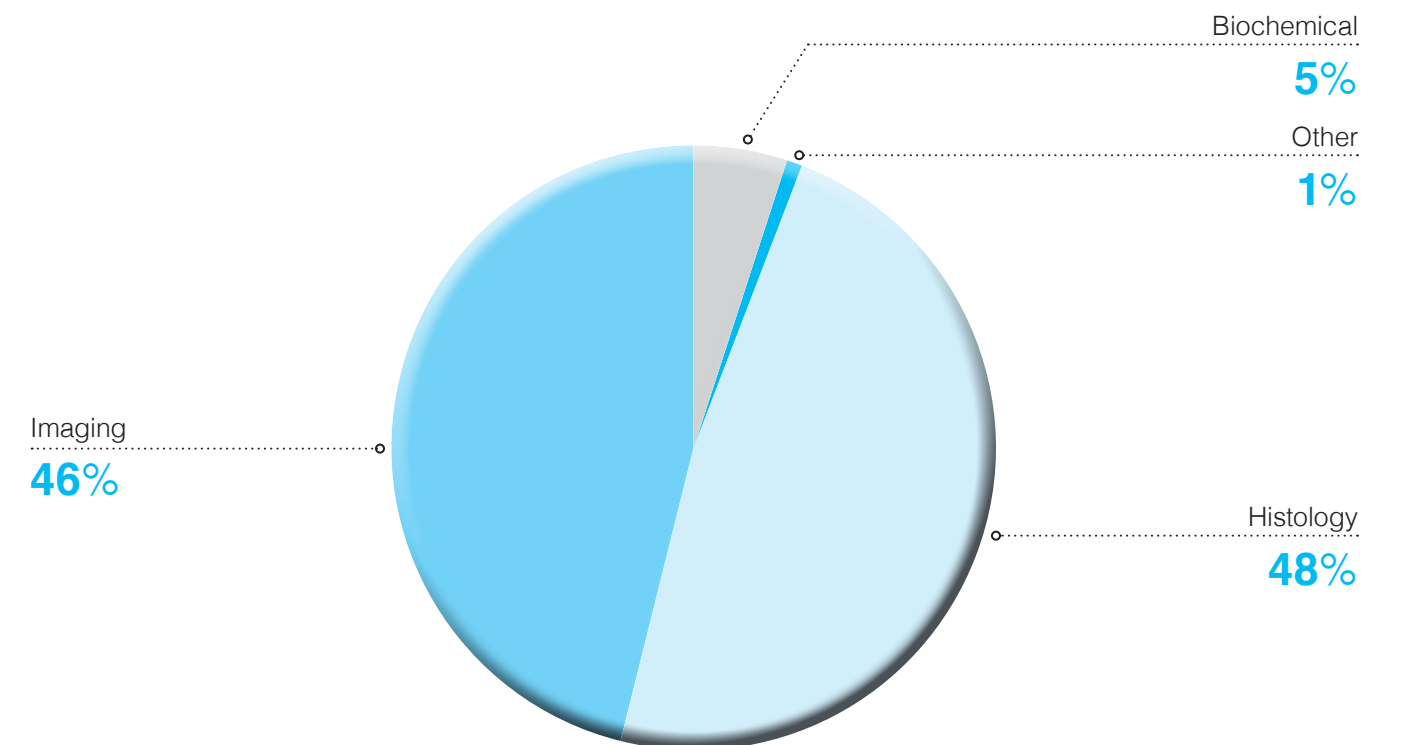
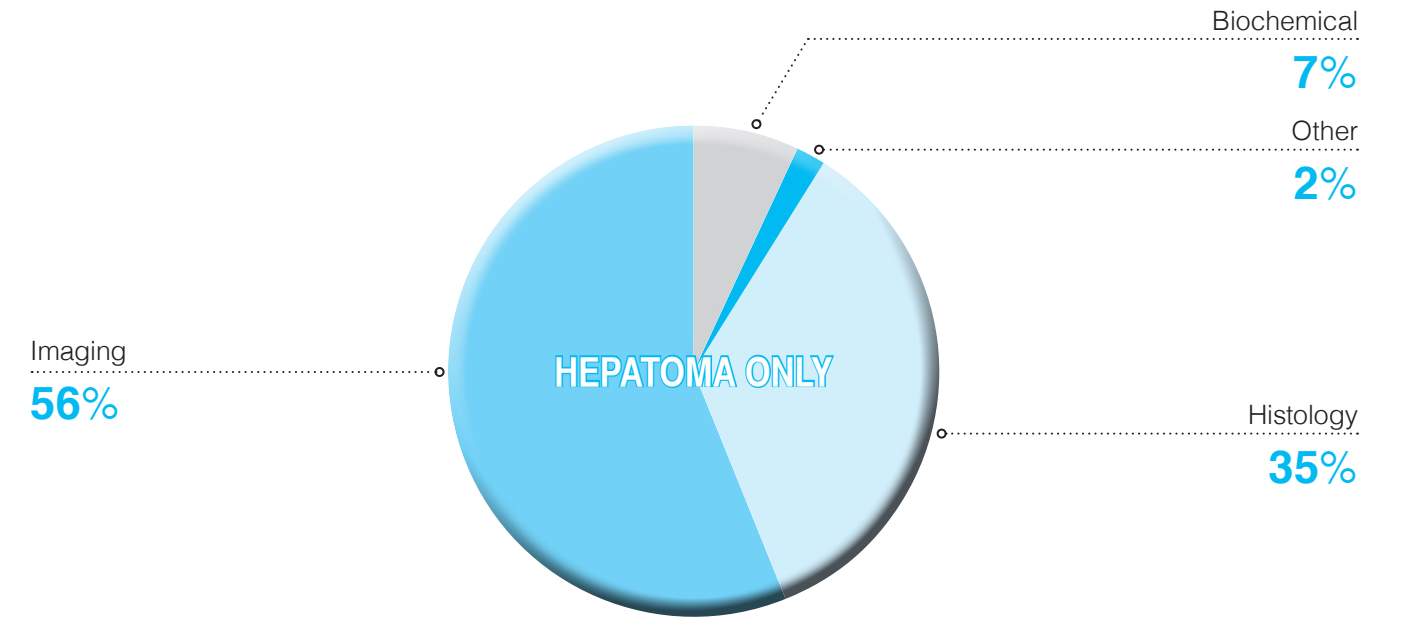
Dx = Diagnosis for Cancer (Dx by Pathology, Cytology or Imaging)

Rx = Treatment

Here = Within Bangkok Hospital - Soonvijai

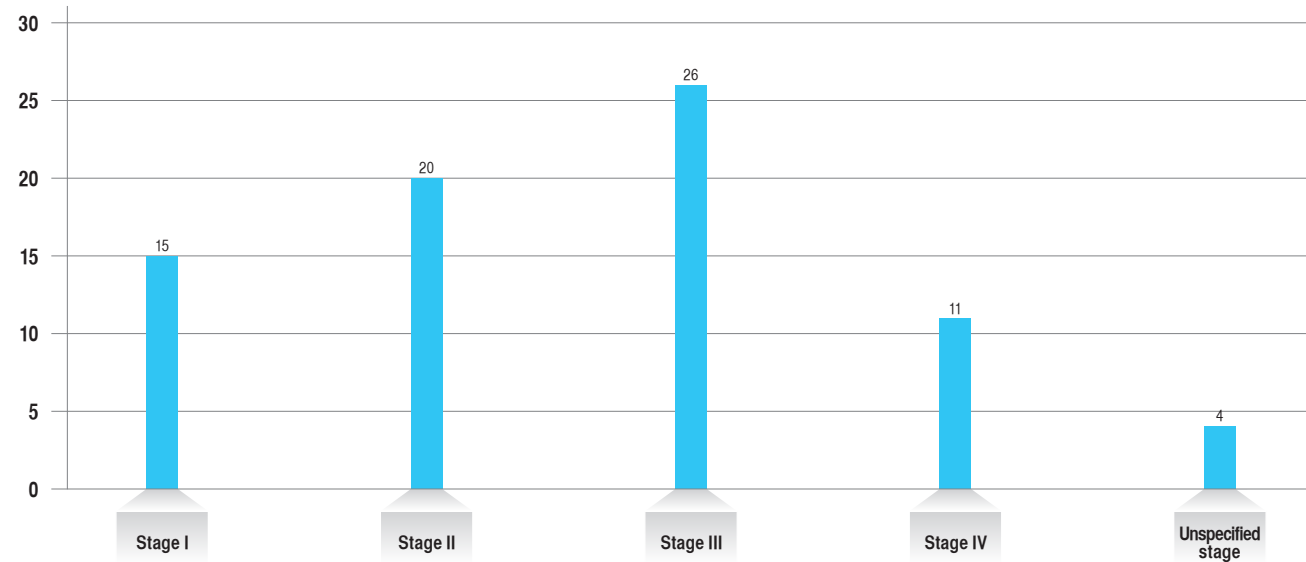
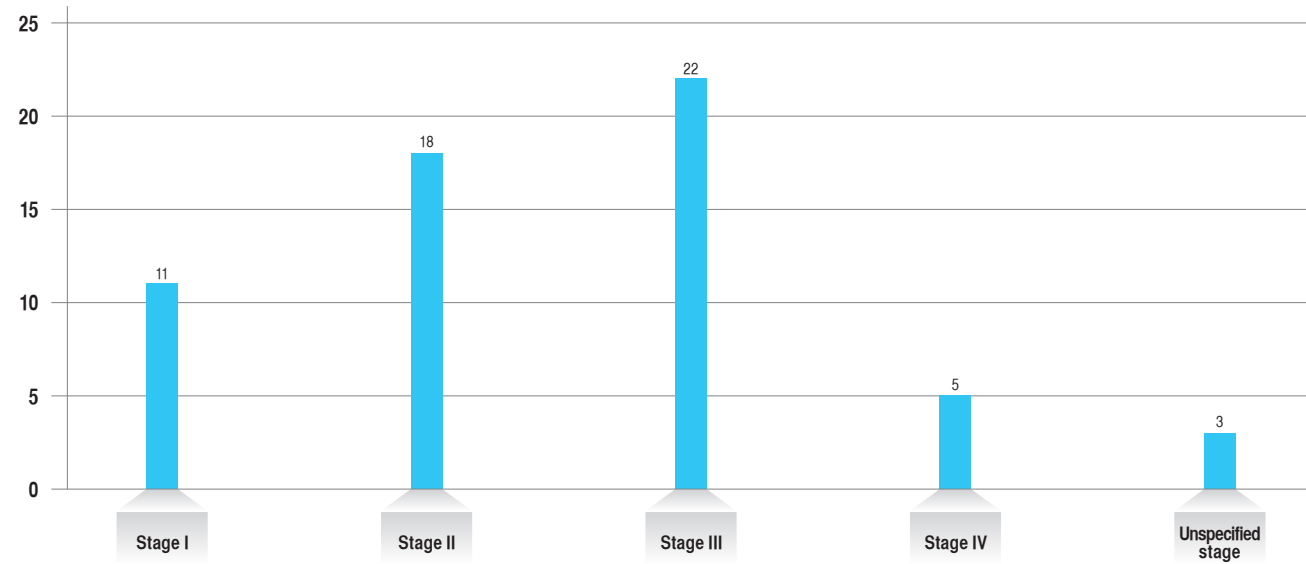
Other = Outside Bangkok Hospital - Soonvijai

METHOD OF DIAGNOSIS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)



STAGING (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

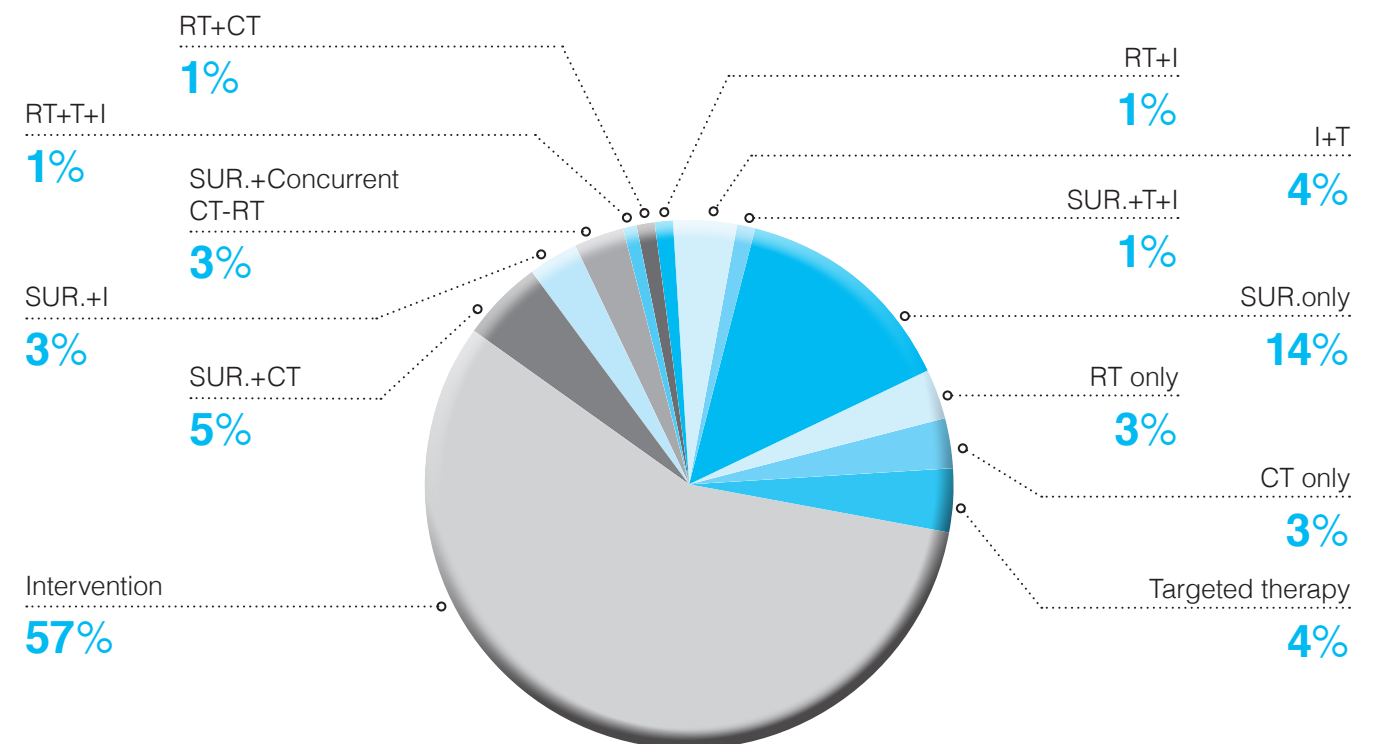
Hepatoma only



Unspecified stage = Incomplete staging due to insufficient patient information

TYPE OF TREATMENT (IN BANGKOK HOSPITAL - SOONVIJAI ONLY)

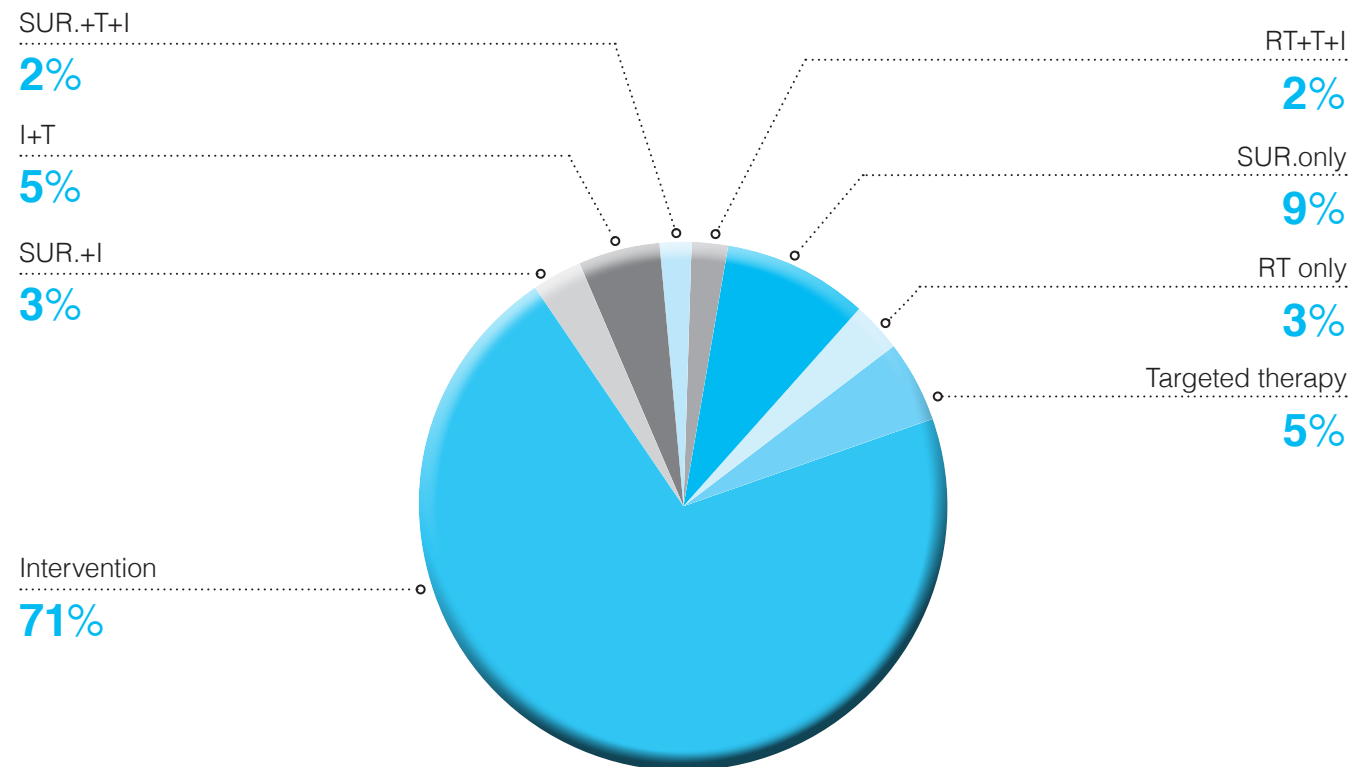
Management of treatment	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
SUR.only	6	10.53	5	26.32	11	14.47
RT only	1	1.75	1	5.26	2	2.63
CT only	1	1.75	1	5.26	2	2.63
Targeted therapy	3	5.26	0	0.00	3	3.95
Intervention	36	63.16	7	36.84	43	56.58
SUR.+CT	1	1.75	3	15.79	4	5.26
SUR.+I	2	3.51	0	0.00	2	2.63
SUR.+Concurrent CT-RT	1	1.75	1	5.26	2	2.63
RT+T+I	1	1.75	0	0.00	1	1.32
RT+CT	1	1.75	0	0.00	1	1.32
RT+I	0	0.00	1	5.26	1	1.32
I+T	3	5.26	0	0.00	3	3.95
SUR.+T+I	1	1.75	0	0.00	1	1.32
Total	57	100.00	19	100.00	76	100.00



SUR. = Surgery
 RT = External radiation therapy
 CT = Chemotherapy
 I = Intervention

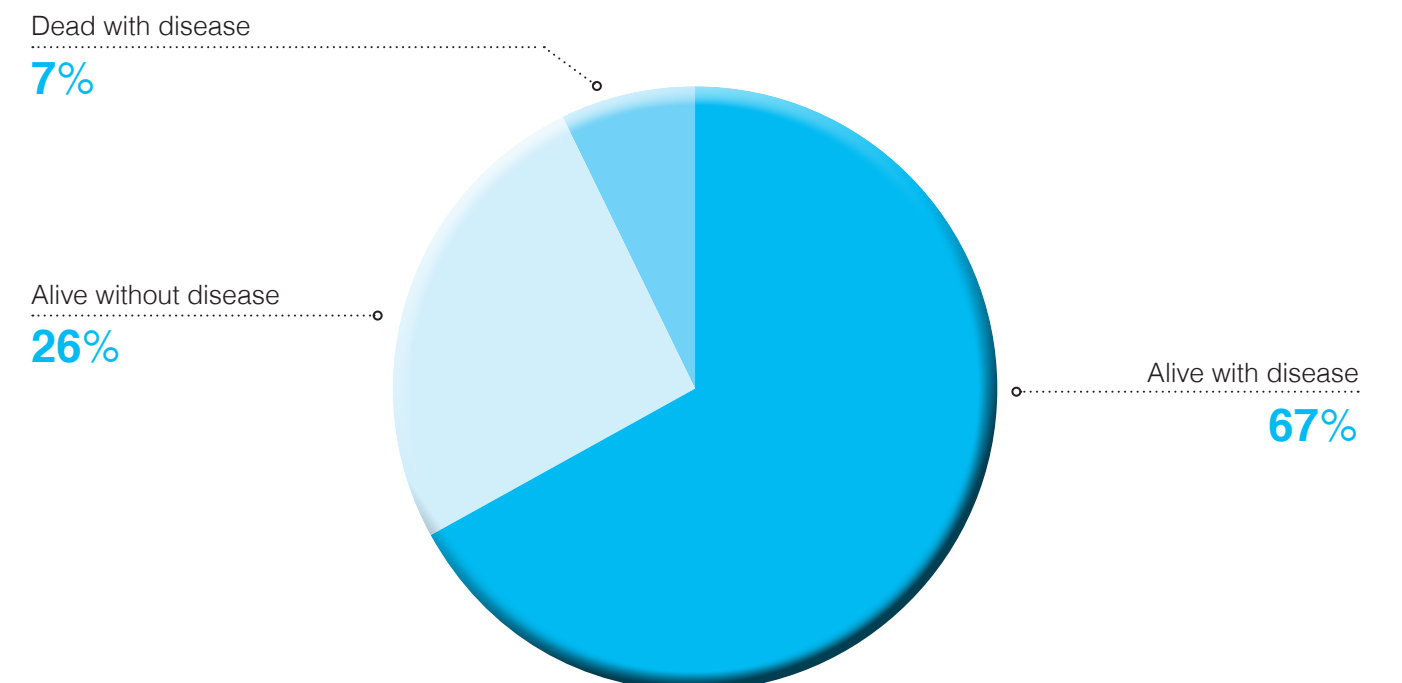
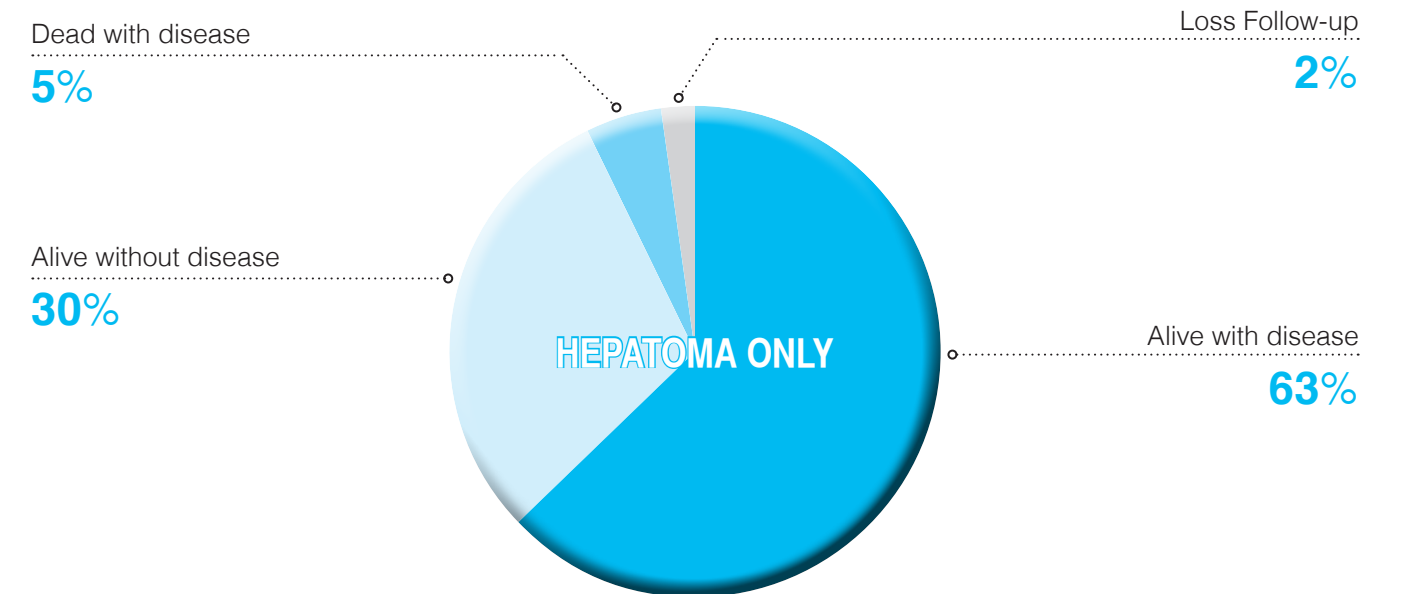
TYPE OF TREATMENT IN HEPATOMA CANCER (IN BANGKOK HOSPITAL - SOONVIJAI ONLY)

Management of treatment	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
SUR.only	3	6.12	2	20.00	5	8.47
RT only	1	2.04	1	10.00	2	3.39
Targeted therapy	3	6.12	0	0.00	3	5.08
Intervention	35	71.43	7	70.00	42	71.19
SUR.+I	2	4.08	0	0.00	2	3.39
I+T	3	6.12	0	0.00	3	5.08
SUR.+T+I	1	2.04	0	0.00	1	1.69
RT+T+I	1	2.04	0	0.00	1	1.69
Total	49	100.00	10	100.00	59	100.00



SUR. = Surgery
RT = External radiation therapy
I = Intervention
T = Targeted therapy

FOLLOW UP STATUS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

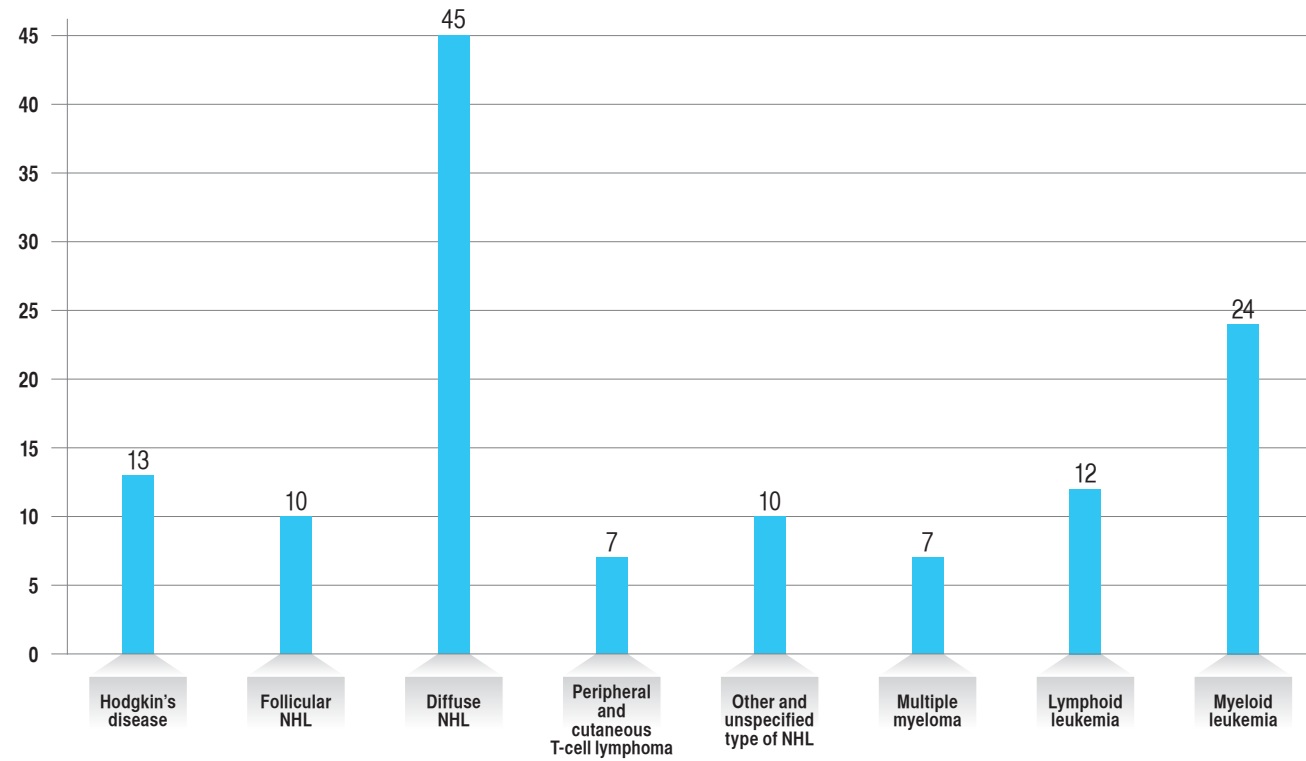


HEMATOLOGIC MALIGNANCIES 2013

DISTRIBUTION OF HEMATOLOGIC MALIGNANCIES

Code	Disease	Male		Female		Total	
		Number	Percent	Number	Percent	Number	Percent
C81	Hodgkin's disease	9	10.98	4	8.70	13	10.16
C82	Follicular NHL	5	6.10	5	10.87	10	7.81
C83	Diffuse NHL	30	36.59	15	32.61	45	35.16
C84	Peripheral and cutaneous T-cell lymphoma	4	4.88	3	6.52	7	5.47
C85	Other and unspecified type of NHL	5	6.10	5	10.87	10	7.81
C90	Multiple myeloma	6	7.32	1	2.17	7	5.47
C91	Lymphoid leukemia	10	12.20	2	4.35	12	9.38
C92	Myeloid leukemia	13	15.85	11	23.91	24	18.75
Total		82	100.00	46	100.00	128	100.00

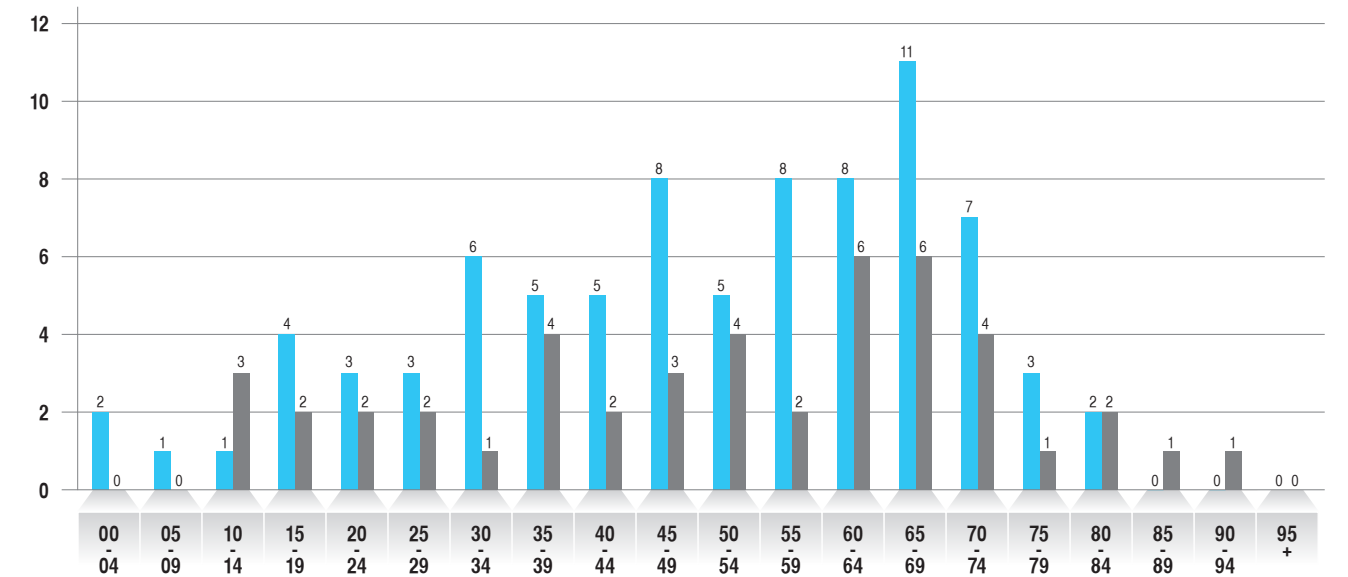
All patient



DISTRIBUTION OF HEMATOLOGIC MALIGNANCIES BY AGE AND GENDER

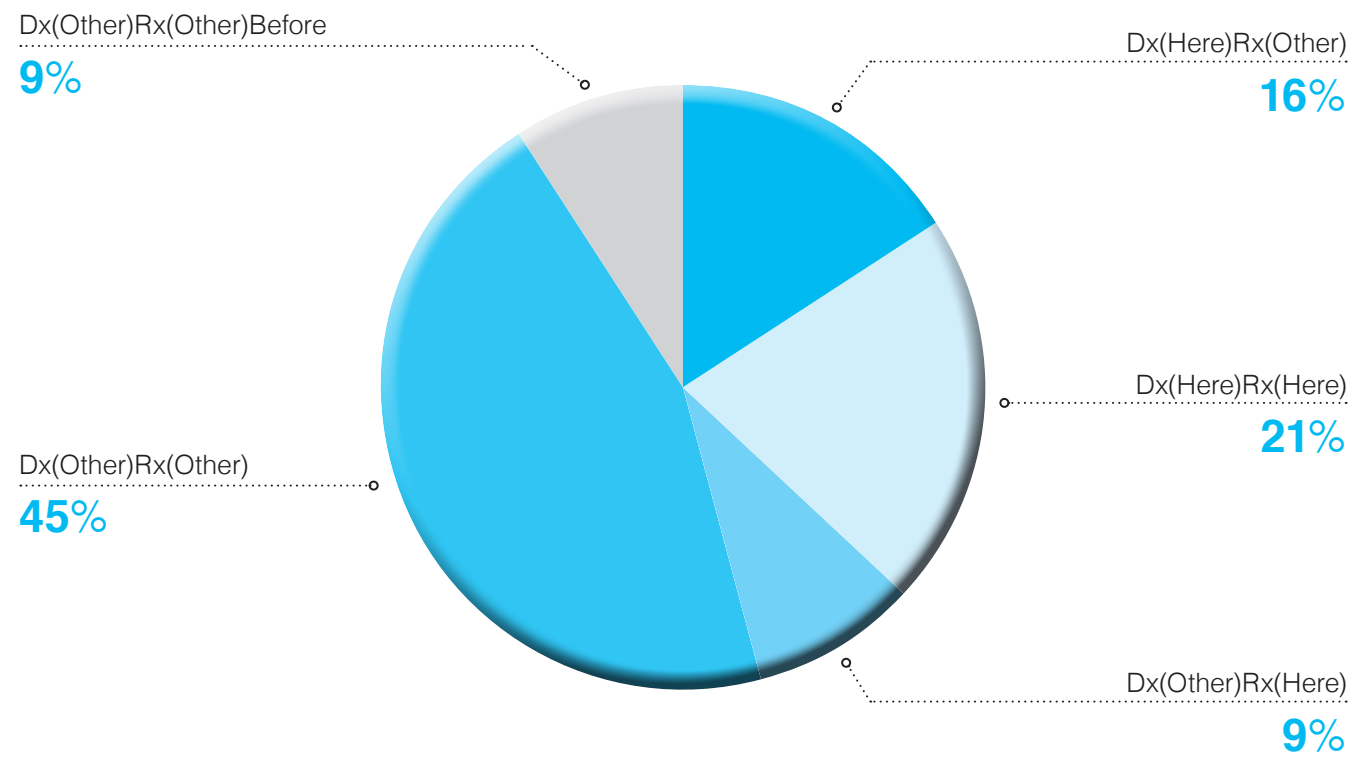
Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
00 - 04	2	2.44	0	0.00	2	1.56
05 - 09	1	1.22	0	0.00	1	0.78
10 - 14	1	1.22	3	6.52	4	3.13
15 - 19	4	4.88	2	4.35	6	4.69
20 - 24	3	3.66	2	4.35	5	3.91
25 - 29	3	3.66	2	4.35	5	3.91
30 - 34	6	7.32	1	2.17	7	5.47
35 - 39	5	6.10	4	8.70	9	7.03
40 - 44	5	6.10	2	4.35	7	5.47
45 - 49	8	9.76	3	6.52	11	8.59
50 - 54	5	6.10	4	8.70	9	7.03
55 - 59	8	9.76	2	4.35	10	7.81
60 - 64	8	9.76	6	13.04	14	10.94
65 - 69	11	13.41	6	13.04	17	13.28
70 - 74	7	8.54	4	8.70	11	8.59
75 - 79	3	3.66	1	2.17	4	3.13
80 - 84	2	2.44	2	4.35	4	3.13
85 - 89	0	0.00	1	2.17	1	0.78
90 - 94	0	0.00	1	2.17	1	0.78
95 +	0	0.00	0	0.00	0	0.00
Total	82	100.00	46	100.00	128	100.00

Male Female



OVERALL HEMATOLOGIC MALIGNANCIES

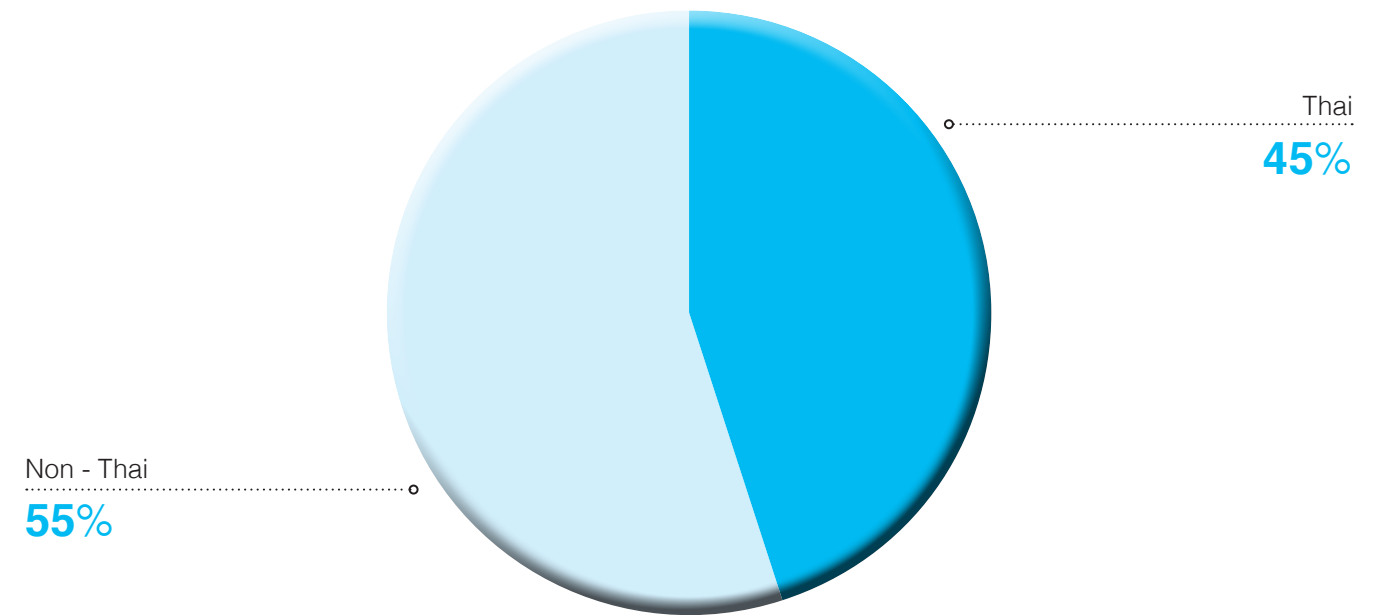
PATIENT CATEGORY



Dx = Diagnosis for cancer
 Rx = Treatment
 Here = Within Bangkok Hospital - Soonvijai
 Other = Outside Bangkok Hospital - Soonvijai

PATIENT NATIONALITY

Patient nationality	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Thai	32	39.02	25	54.35	57	44.53
Non - Thai	50	60.98	21	45.65	71	55.47
Total	82	100.00	46	100.00	128	100.00

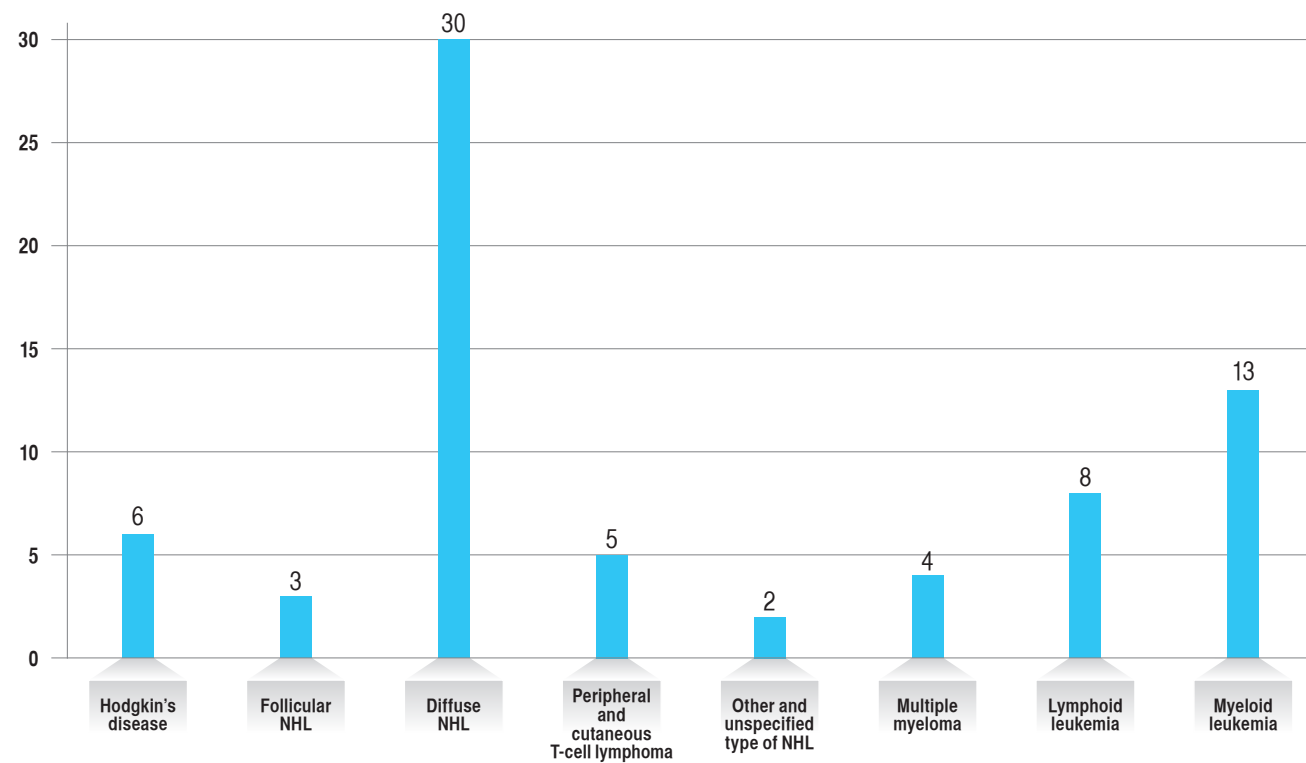


OVERALL HEMATOLOGIC MALIGNANCIES

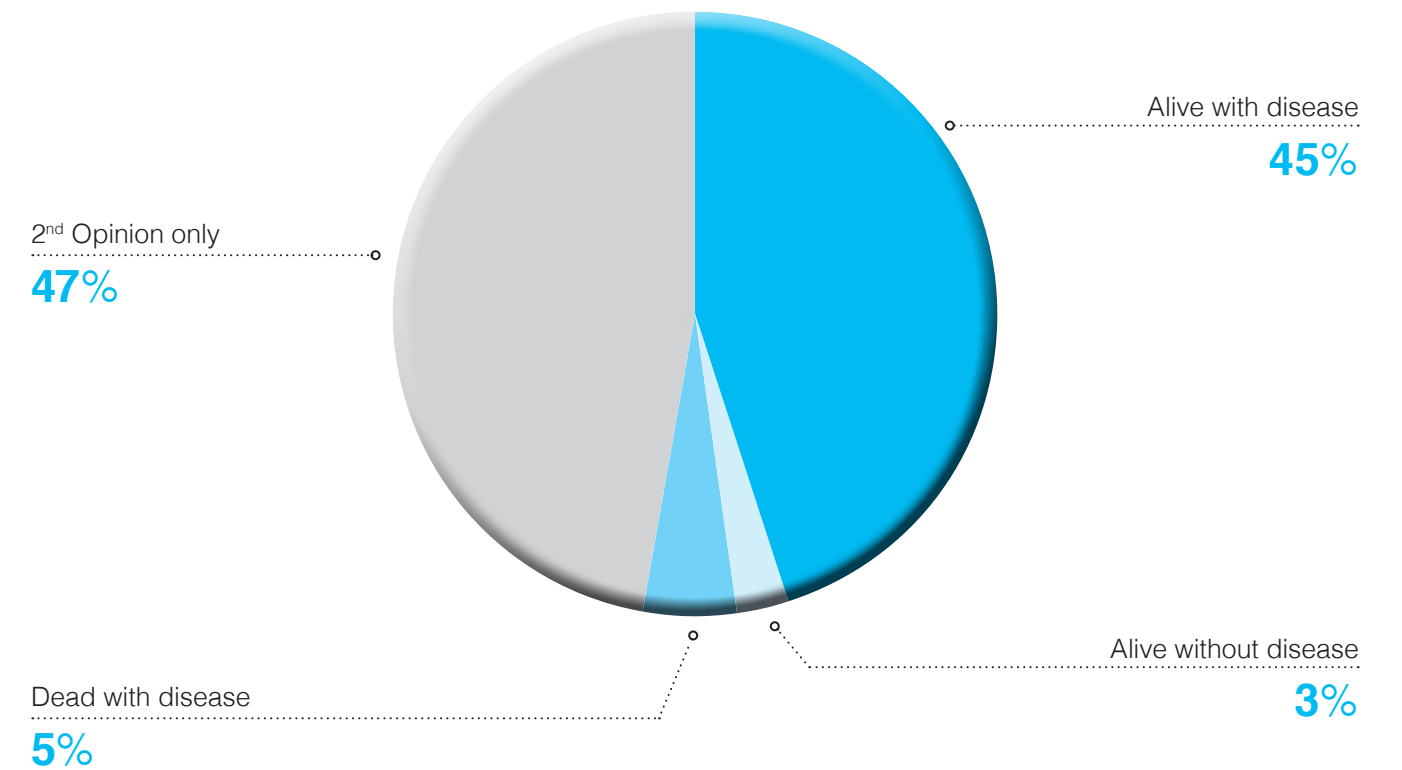
HEMATOLOGIC MALIGNANCIES IN NON-THAI PATIENT

Code	Disease	Male		Female		Total	
		Number	Percent	Number	Percent	Number	Percent
C81	Hodgkin's disease	3	6.00	3	14.29	6	8.45
C82	Follicular NHL	2	4.00	1	4.76	3	4.23
C83	Diffuse NHL	23	46.00	7	33.33	30	42.25
C84	Peripheral and cutaneous T-cell lymphoma	3	6.00	2	9.52	5	7.04
C85	Other and unspecified type of NHL	0	0.00	2	9.52	2	2.82
C90	Multiple myeloma	4	8.00	0	0.00	4	5.63
C91	Lymphoid leukemia	7	14.00	1	4.76	8	11.27
C92	Myeloid leukemia	8	16.00	5	23.81	13	18.31
Total		50	100.00	21	100.00	71	100.00

Non - Thai patient



PATIENT FOLLOW UP STATUS

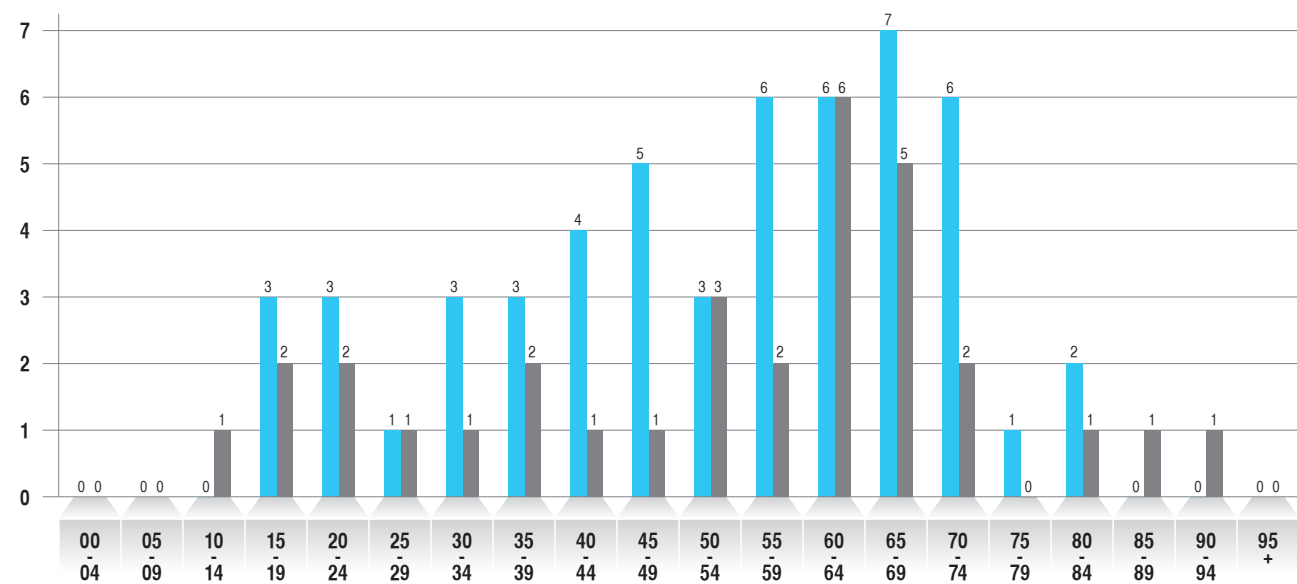


OVERALL HEMATOLOGIC MALIGNANCIES

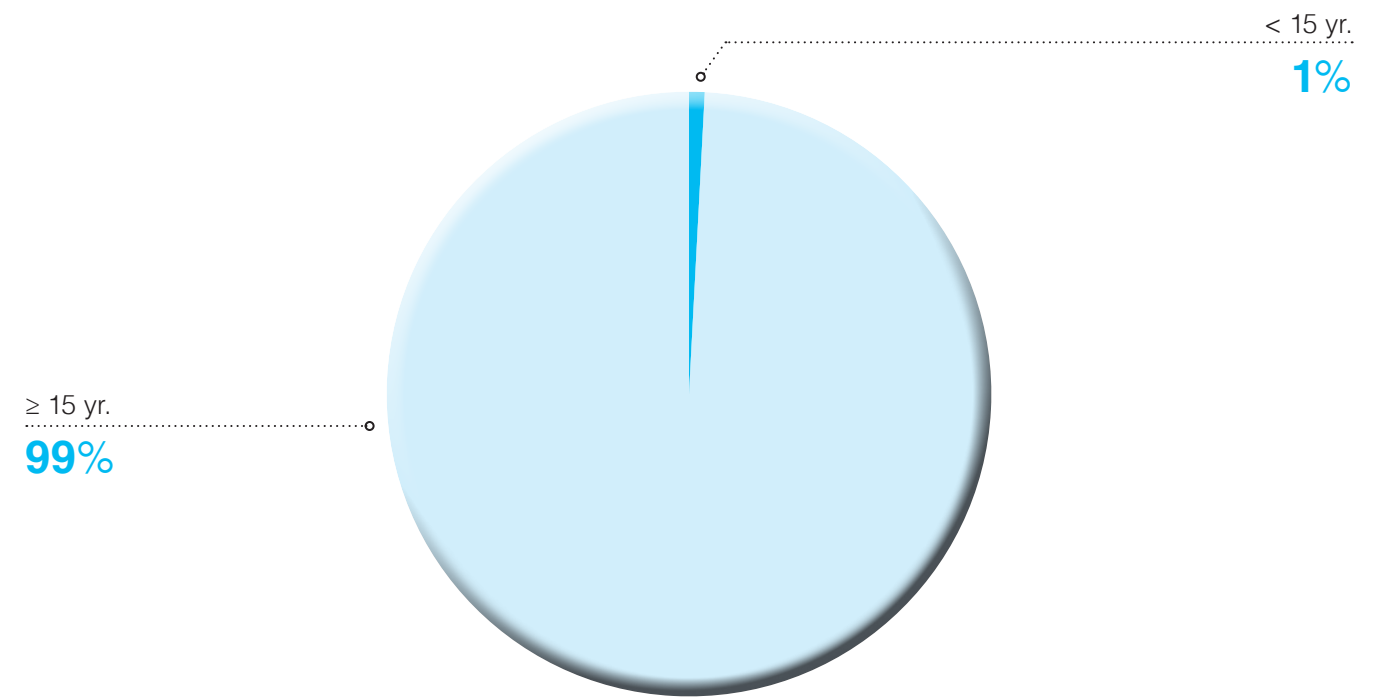
LYMPHOMA AGE AND GENDER

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
00 - 04	0	0.00	0	0.00	0	0.00
05 - 09	0	0.00	0	0.00	0	0.00
10 - 14	0	0.00	1	3.13	1	1.18
15 - 19	3	5.66	2	6.25	5	5.88
20 - 24	3	5.66	2	6.25	5	5.88
25 - 29	1	1.89	1	3.13	2	2.35
30 - 34	3	5.66	1	3.13	4	4.71
35 - 39	3	5.66	2	6.25	5	5.88
40 - 44	4	7.55	1	3.13	5	5.88
45 - 49	5	9.43	1	3.13	6	7.06
50 - 54	3	5.66	3	9.38	6	7.06
55 - 59	6	11.32	2	6.25	8	9.41
60 - 64	6	11.32	6	18.75	12	14.12
65 - 69	7	13.21	5	15.63	12	14.12
70 - 74	6	11.32	2	6.25	8	9.41
75 - 79	1	1.89	0	0.00	1	1.18
80 - 84	2	3.77	1	3.13	3	3.53
85 - 89	0	0.00	1	3.13	1	1.18
90 - 94	0	0.00	1	3.13	1	1.18
95 +	0	0.00	0	0.00	0	0.00
Total	53	100.00	32	100.00	85	100.00

■ Male ■ Female



Age group	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
< 15 yr.	0	0.00	1	3.13	1	1.18
≥ 15 yr.	53	100.00	31	96.88	84	98.82
Total	53	100.00	32	100.00	85	100.00

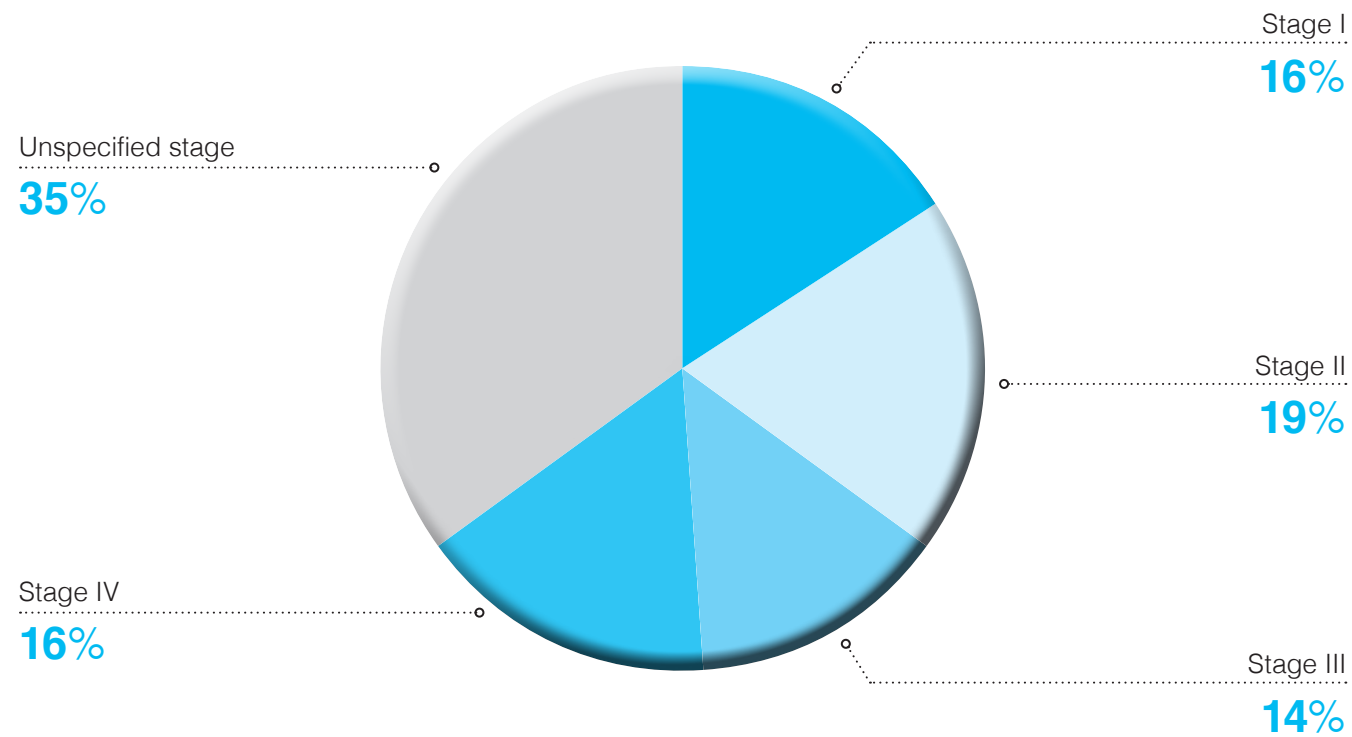


LYMPHOMA

METHOD OF DIAGNOSIS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

Conclude method of diagnosis	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Histopathology only	9	39.13	7	50.00	16	43.24
Histopathology + Flow cytometry	8	34.78	4	28.57	12	32.43
Histopathology + Immunohistochemistry	2	8.70	1	7.14	3	8.11
Histopathology + Immunohistochemistry + Chromosome	1	4.35	0	0.00	1	2.70
Histopathology + Flow cytometry + Immunohistochemistry	3	13.04	1	7.14	4	10.81
Histopathology + Cytology + Immunohistochemistry	0	0.00	1	7.14	1	2.70
Total	23	100.00	14	100.00	37	100.00

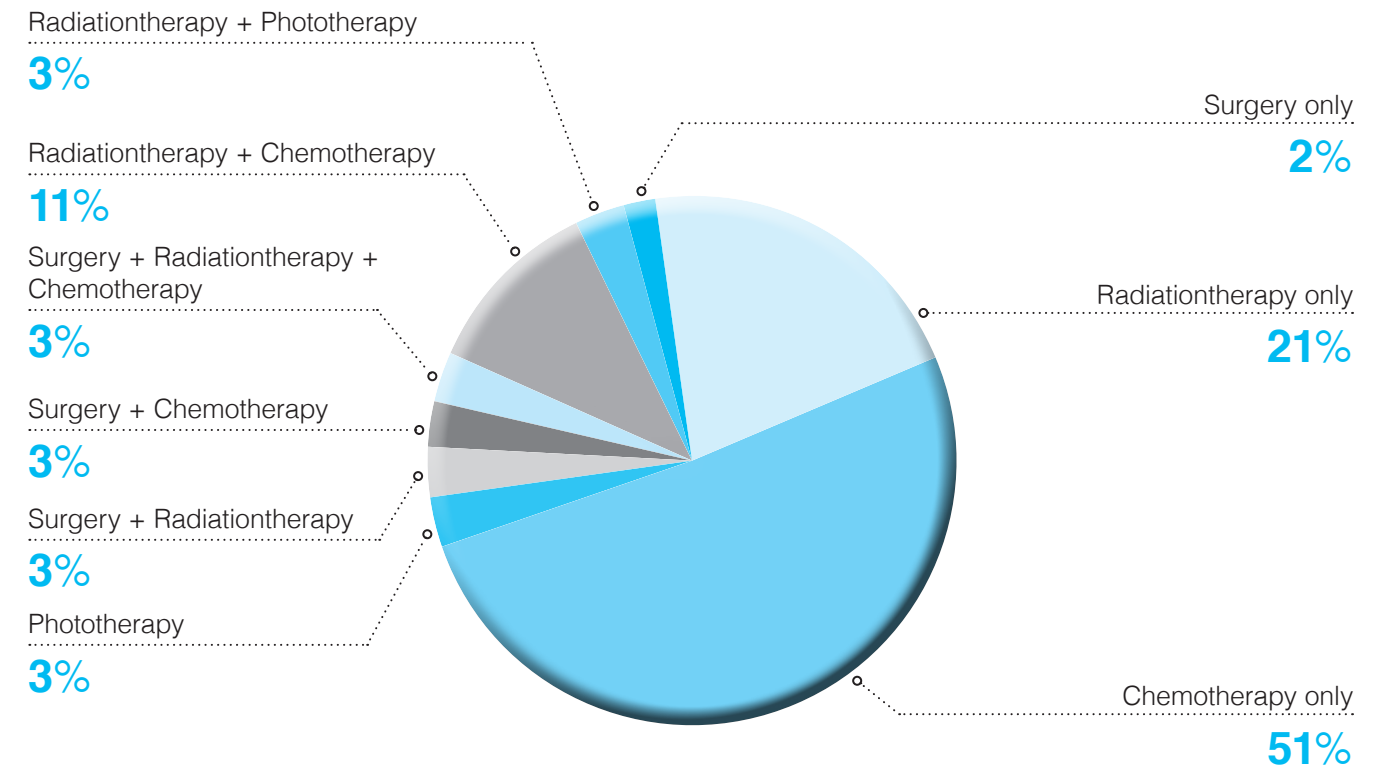
STAGING (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)



Unspecified stage = Incomplete staging due to insufficient patient information

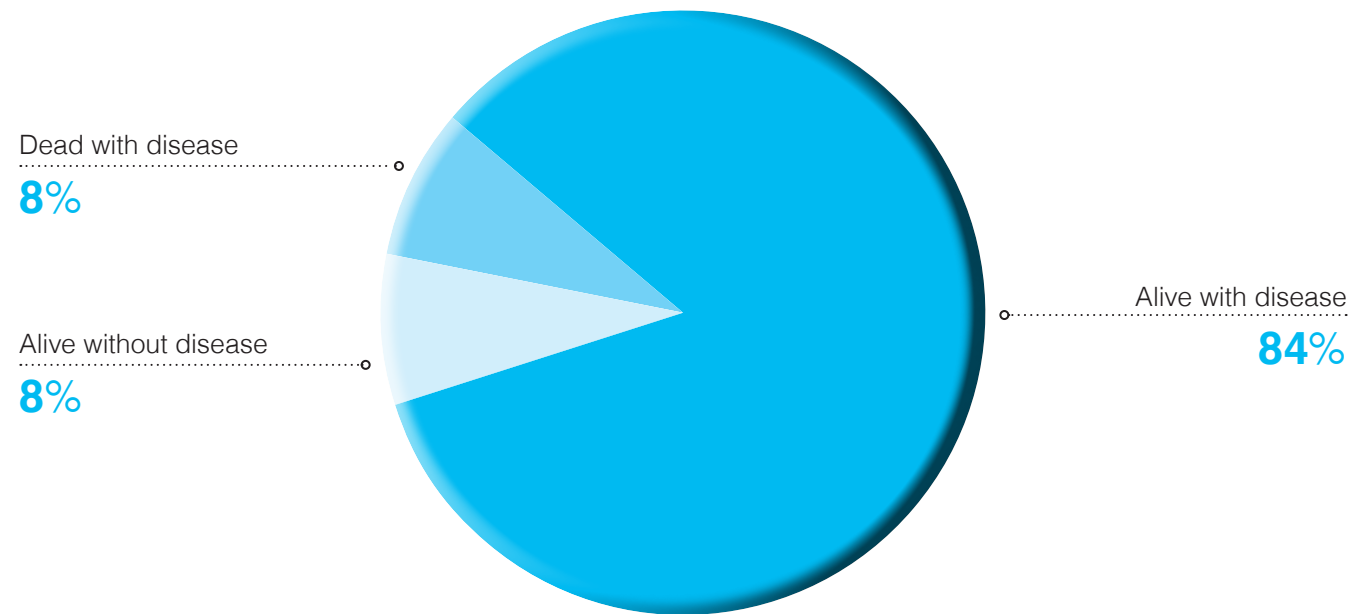
TYPE OF TREATMENT (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

Management of treatment	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Surgery only	0	0.00	1	7.14	1	2.70
Radiationtherapy only	3	13.04	5	35.71	8	21.62
Chemotherapy only	13	56.52	6	42.86	19	51.35
Phototherapy	0	0.00	1	7.14	1	2.70
Surgery + Radiationtherapy	1	4.35	0	0.00	1	2.70
Surgery + Chemotherapy	0	0.00	1	7.14	1	2.70
Surgery + Radiationtherapy + Chemotherapy	1	4.35	0	0.00	1	2.70
Radiationtherapy + Chemotherapy	4	17.39	0	0.00	4	10.81
Radiationtherapy + Phototherapy	1	4.35	0	0.00	1	2.70
Total	23	100.00	14	100.00	37	100.00



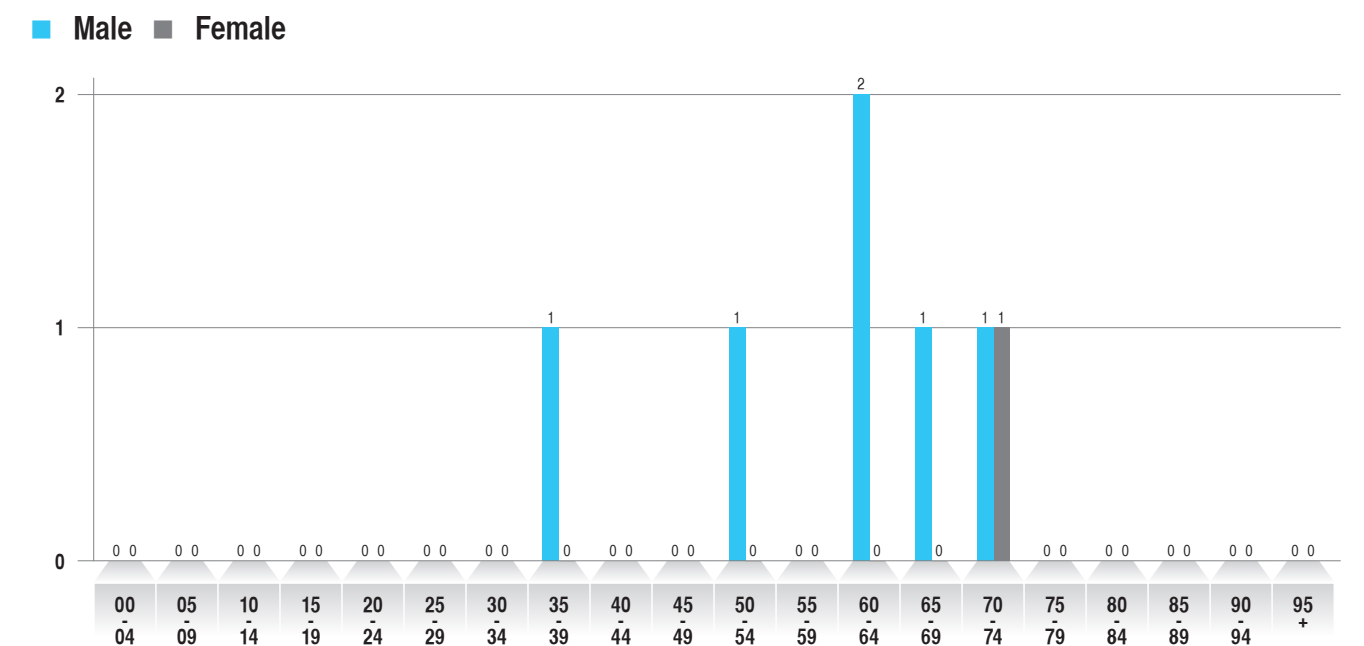
PATIENT FOLLOW UP STATUS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

Follow up status	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Alive with disease	18	78.26	13	92.86	31	83.78
Alive without disease	3	13.04	0	0.00	3	8.11
Dead with disease	2	8.70	1	7.14	3	8.11
Total	23	100.00	14	100.00	37	100.00



MULTIPLE MYELOMA AGE AND GENDER

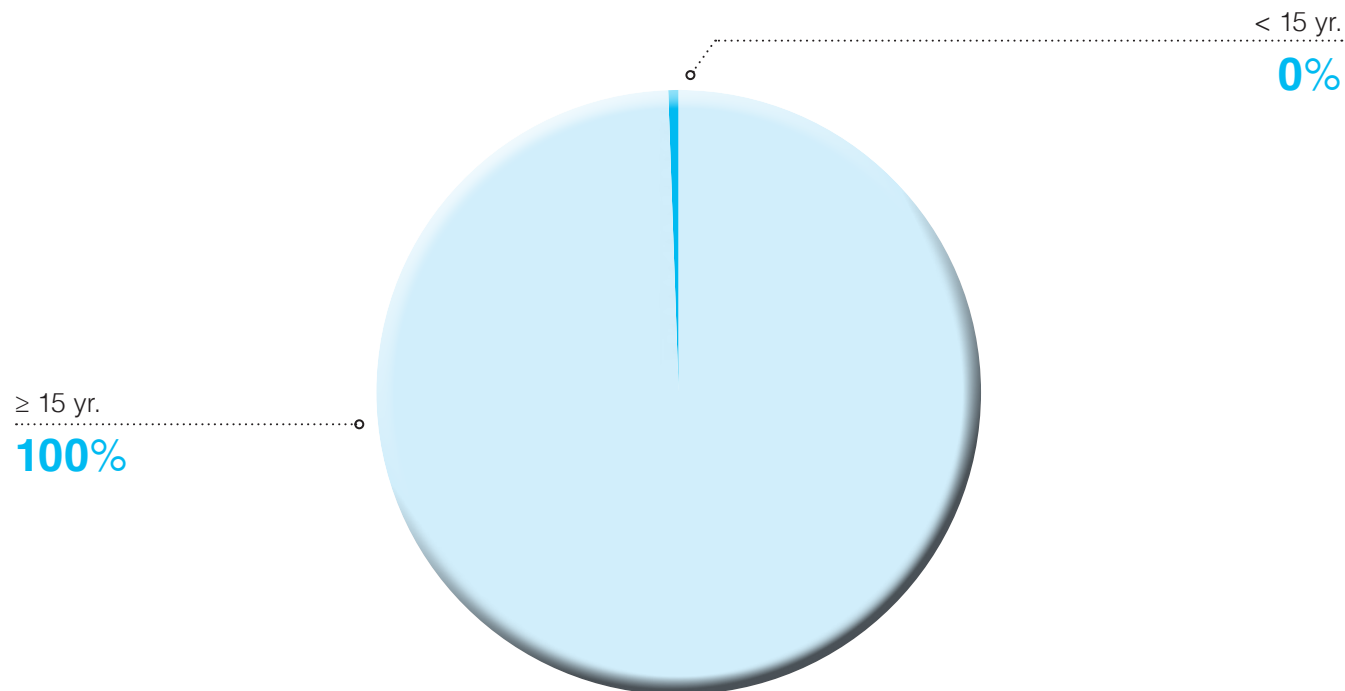
Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
00 - 04	0	0.00	0	0.00	0	0.00
05 - 09	0	0.00	0	0.00	0	0.00
10 - 14	0	0.00	0	0.00	0	0.00
15 - 19	0	0.00	0	0.00	0	0.00
20 - 24	0	0.00	0	0.00	0	0.00
25 - 29	0	0.00	0	0.00	0	0.00
30 - 34	0	0.00	0	0.00	0	0.00
35 - 39	1	16.67	0	0.00	1	14.29
40 - 44	0	0.00	0	0.00	0	0.00
45 - 49	0	0.00	0	0.00	0	0.00
50 - 54	1	16.67	0	0.00	1	14.29
55 - 59	0	0.00	0	0.00	0	0.00
60 - 64	2	33.33	0	0.00	2	28.57
65 - 69	1	16.67	0	0.00	1	14.29
70 - 74	1	16.67	1	100.00	2	28.57
75 - 79	0	0.00	0	0.00	0	0.00
80 - 84	0	0.00	0	0.00	0	0.00
85 - 89	0	0.00	0	0.00	0	0.00
90 - 94	0	0.00	0	0.00	0	0.00
95 +	0	0.00	0	0.00	0	0.00
Total	6	100.00	1	100.00	7	100.00



MULTIPLE MYELOMA

TYPE OF TREATMENT (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

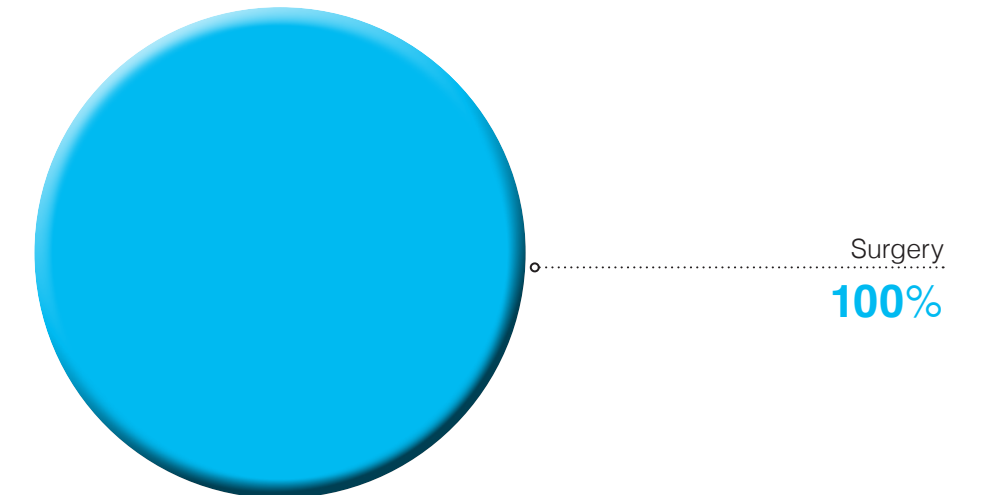
Age group	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
< 15 yr.	0	0.00	0	0.00	0	0.00
≥ 15 yr.	6	100.00	1	100.00	7	100.00
Total	6	100.00	1	100.00	7	100.00



METHOD OF DIAGNOSIS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

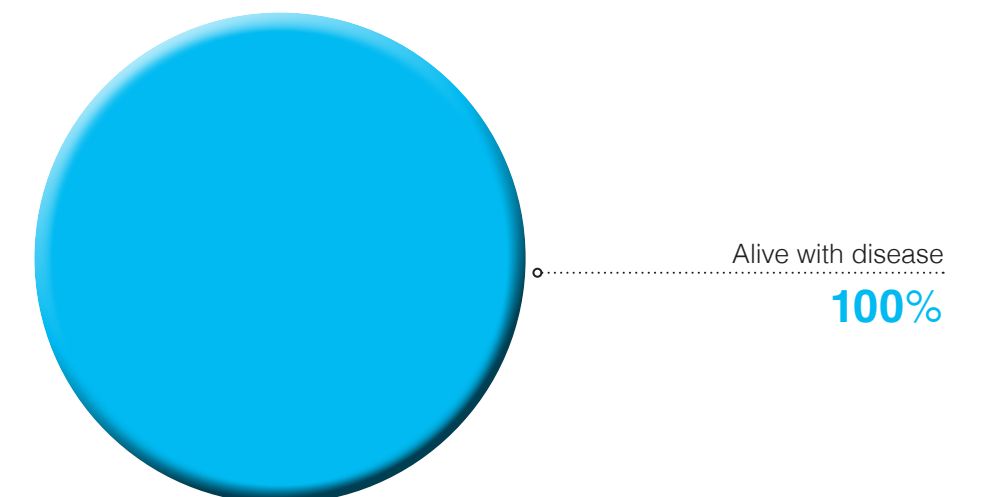
Conclude method of diagnosis	Female	
	Number	Percent
Histopathology only	1	100.00
Total	1	100.00

Management of treatment	Female	
	Number	Percent
Surgery only	1	100.00
Total	1	100.00



PATIENT FOLLOW UP STATUS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

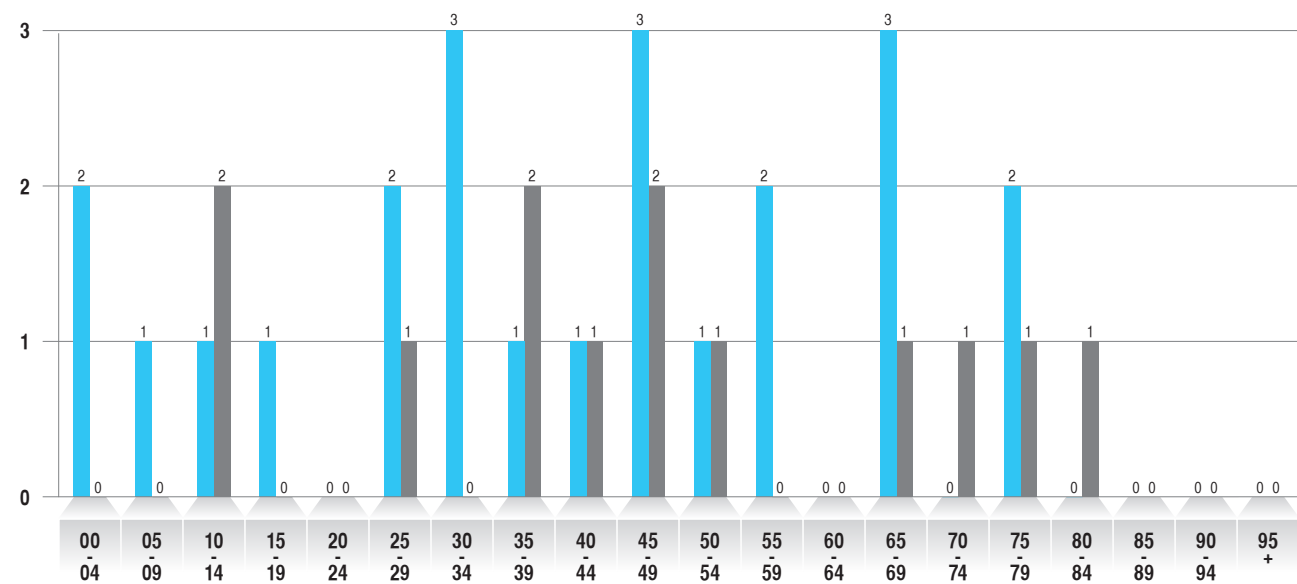
Follow up status	Female	
	Number	Percent
Alive with disease	1	100.00
Total	1	100.00



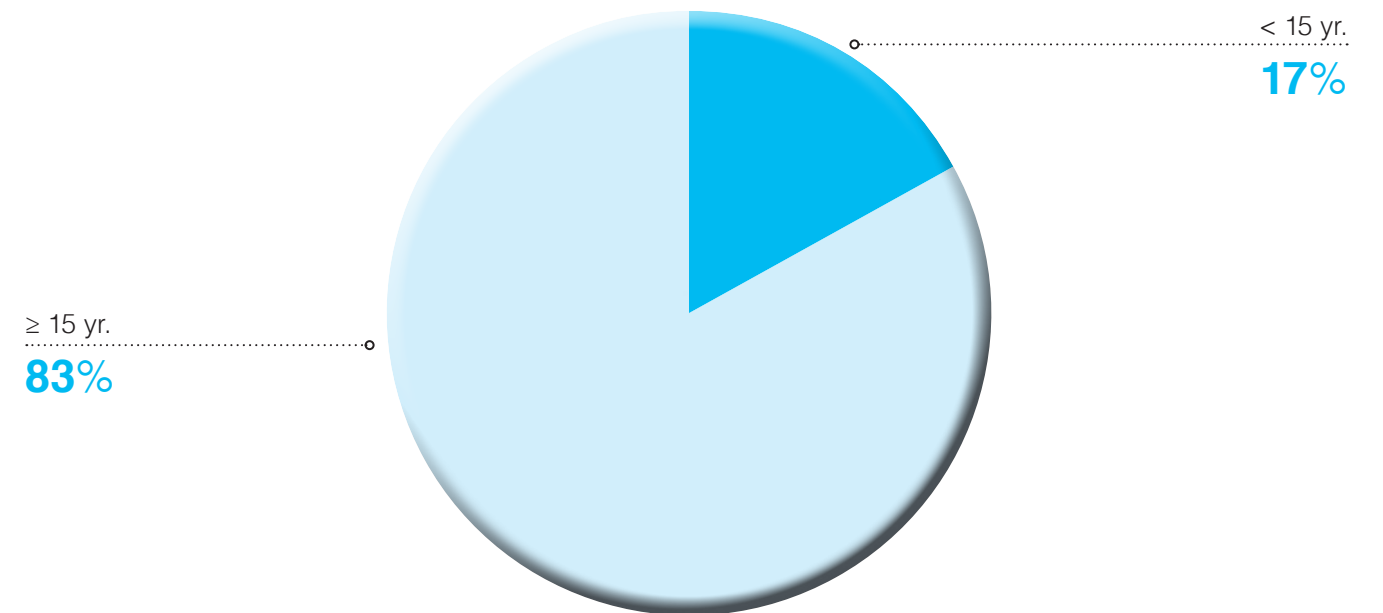
LEUKEMIA AGE AND GENDER

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
00 - 04	2	8.70	0	0.00	2	5.56
05 - 09	1	4.35	0	0.00	1	2.78
10 - 14	1	4.35	2	15.38	3	8.33
15 - 19	1	4.35	0	0.00	1	2.78
20 - 24	0	0.00	0	0.00	0	0.00
25 - 29	2	8.70	1	7.69	3	8.33
30 - 34	3	13.04	0	0.00	3	8.33
35 - 39	1	4.35	2	15.38	3	8.33
40 - 44	1	4.35	1	7.69	2	5.56
45 - 49	3	13.04	2	15.38	5	13.89
50 - 54	1	4.35	1	7.69	2	5.56
55 - 59	2	8.70	0	0.00	2	5.56
60 - 64	0	0.00	0	0.00	0	0.00
65 - 69	3	13.04	1	7.69	4	11.11
70 - 74	0	0.00	1	7.69	1	2.78
75 - 79	2	8.70	1	7.69	3	8.33
80 - 84	0	0.00	1	7.69	1	2.78
85 - 89	0	0.00	0	0.00	0	0.00
90 - 94	0	0.00	0	0.00	0	0.00
95 +	0	0.00	0	0.00	0	0.00
Total	23	100.00	13	100.00	36	100.00

■ Male ■ Female



Age group	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
< 15 yr.	4	17.39	2	15.38	6	16.67
≥ 15 yr.	19	82.61	11	84.62	30	83.33
Total	23	100.00	13	100.00	36	100.00

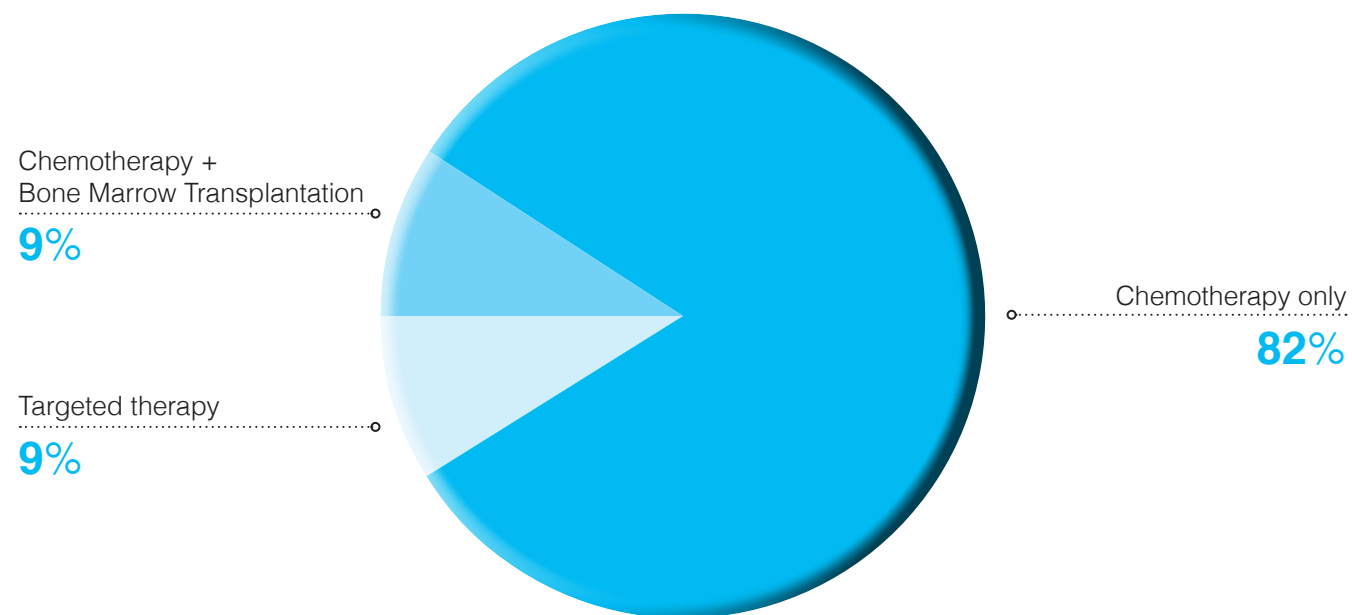


METHOD OF DIAGNOSIS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

Conclude method of diagnosis	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Histopathology only	2	25.00	0	0.00	2	18.18
Histopathology + Flow cytometry	4	50.00	2	66.67	6	54.55
Histopathology + Flow cytometry + Chromosome	1	12.50	1	33.33	2	18.18
Histopathology + Flow cytometry + Immunohistochemistry	1	12.50	0	0.00	1	9.09
Total	8	100.00	3	100.00	11	100.00

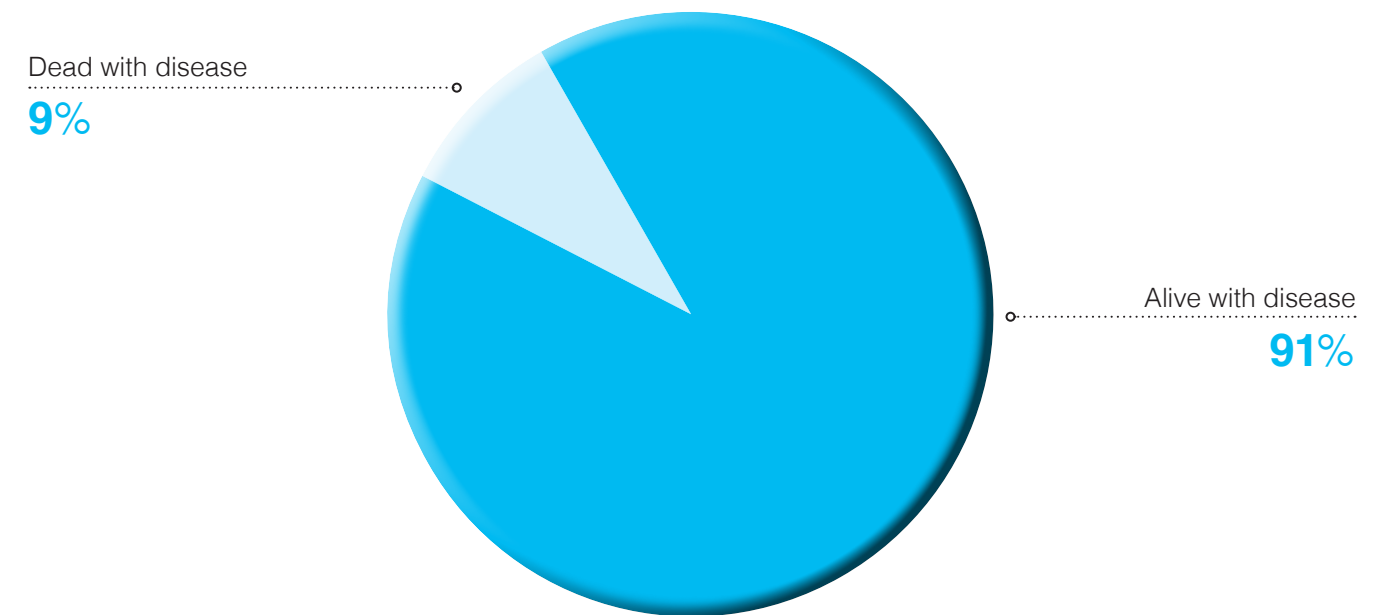
TYPE OF TREATMENT (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

Management of treatment	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Chemotherapy only	8	100.00	1	33.33	9	81.82
Targeted therapy	0	0.00	1	33.33	1	9.09
Chemotherapy + Bone Marrow Transplantation	0	0.00	1	33.33	1	9.09
Total	8	100.00	3	100.00	11	100.00



PATIENT FOLLOW UP STATUS (TREATMENT IN BANGKOK HOSPITAL - SOONVIJAI)

Follow up status	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
Alive with disease	7	87.50	3	100.00	10	90.91
Dead with disease	1	12.50	0	0.00	1	9.09
Total	8	100.00	3	100.00	11	100.00



A REPORT ON CANCER SURVIVAL IN WATTANOSOTH CANCER HOSPITAL

This report on cancer survival is based on an analysis of data of top 3 common cancers (i.e., breast, colorectal and lung cancer) in Wattanosoth Cancer Hospital (WSH). The data has been collected by the hospital tumor registry. The cancer patients were diagnosed during a 12 month period from January 1 to December 31, 2008. All of them received treatment at WSH and were prospectively followed-up up to December 31, 2013 (5 year follow-up period).

Survival rates were estimated by Kaplan-Meier method. The survival rates of subgroups of cancer patients categorized by age (aged ≤ 50 and > 50 years old), sex (male and female) and stage of cancer at diagnosis (stage 1 – 4) were analyzed for comparison.

As this report is hospital registry-based cancer survival analysis, the study may have limitations related to endpoint data and sample size. The observed survival rates are estimated by method which cumulative probability of survival is calculated at consecutive one-month intervals after diagnosis. The information used included death from the cancer and other causes; lost to follow-up before observation period ended; and follow-up ends due to observation period ended. Therefore survival estimated may be biased if the proportion of lost to follow-up or other causes of death is high. Survival rate estimated from small numbers of cases can provide misleading results and may have wide confidence intervals. In addition to compare survival rate between different groups, test for statistical significant may be misleading.

BREAST CANCER SURVIVAL

127 cases were diagnosed breast cancer during January 1 to December 31, 2008. At the time of diagnosis, 49 (39.8%) of them were at stage 1, 40 (32.5%) at stage 2, 23 (18.7%) at stage 3, and 11 (8.9%) at stage 4. Their average age was 53.1 years old (SD ± 12.1). 56 (44.1%) of them aged ≤ 50 years old and 71 (55.9%) aged > 50 years old.

The median follow-up period of these breast cancer patients was 60 months (25th – 75th percentile: 26 – 60 months). During the 5 year follow-up period, 6 of them were dead and 1 were lost to follow-up.

The overall observed survival rate of the breast cancer patients at 5 year follow-up period was 93.4% (95% CI: 85.8 – 97.0) (Fig. 1). The survival seems to have no difference between the age group of > 50 and ≤ 50 years old, of which the survival rate was 91.7% (95% CI: 79.1 – 96.8), and 95.3% (95% CI: 82.3 – 98.8) respectively (Fig. 2).

The observed survival of the early stage breast cancers, i.e., stage 1 and 2 was 97.7% (95% CI: 84.6 to 99.7) and 95.6% (95% CI: 72.9 to 99.4) respectively, while the survival of the late stages, i.e., stage 3 and 4 was 80.7% (95% CI: 51.1 to 93.4) and 100% respectively (Fig. 3). The survival rate tends to be lower in the late stage breast cancers.

Kaplan-Meier survival estimate

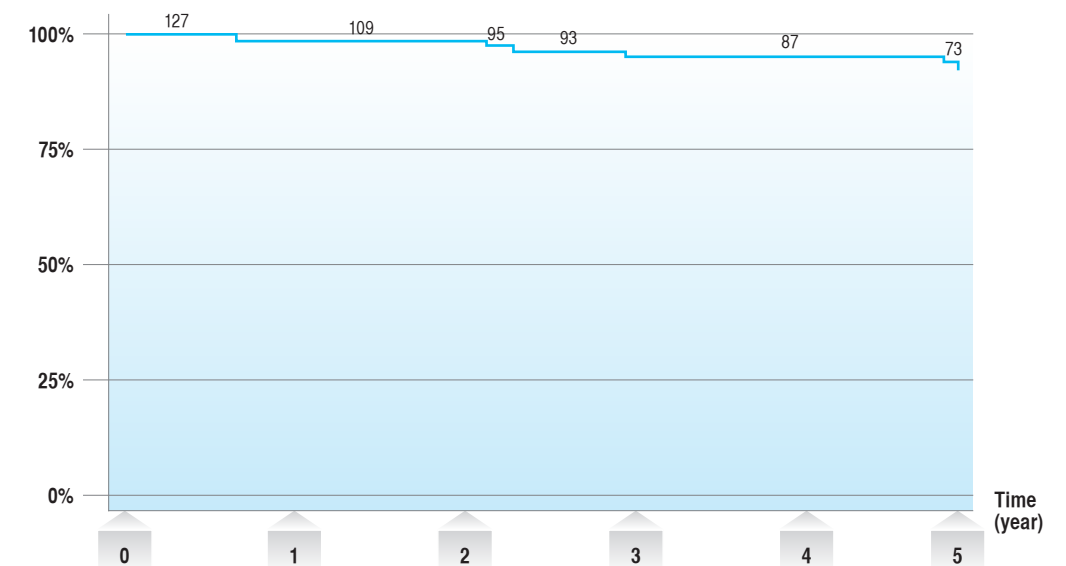


Figure 1. Overall observed survival rate of the breast cancer patients in WSH during 5 year follow-up period

Kaplan-Meier survival estimates by Age

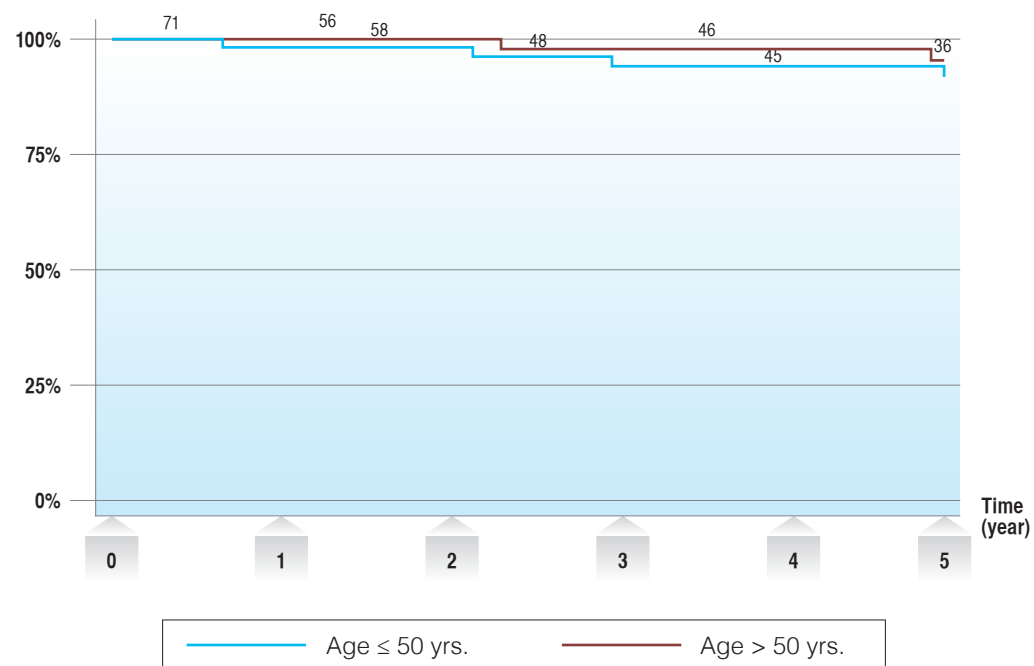


Figure 2. Observed survival rate of the breast cancer patients in WSH during 5 year follow-up period by age group of ≤ 50 and > 50 years old

Kaplan-Meier survival estimates by Stage

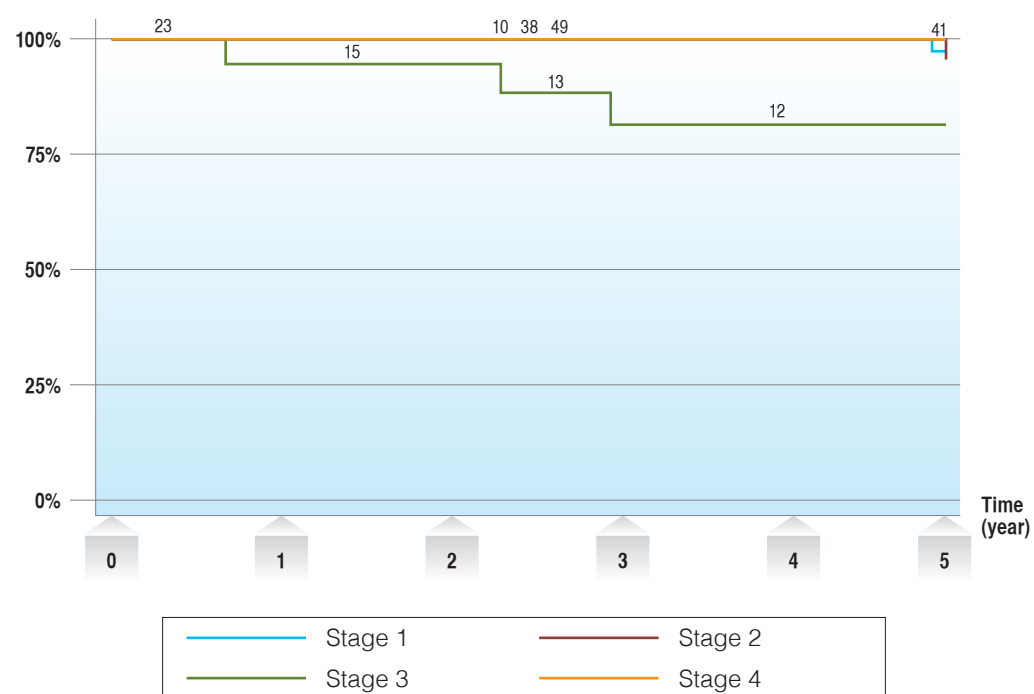


Figure 3. Observed survival rate of the breast cancer patients in WSH during 5 year follow-up period by stage of the cancer at diagnosis (stage 1 – 4)

62 cases were diagnosed colorectal cancer during January 1 to December 31, 2008. At the time of diagnosis, 7 (11.5%) of them were at stage 1, 10 (16.4%) at stage 2, 28 (45.9%) at stage 3, and 16 (26.2%) at stage 4. Their average age was 61.7 years old (SD ± 13.6). 13 (21.0%) of them aged ≤ 50 years old and 49 (79.0%) aged > 50 years old. Among of them, there were 43 (69.3%) males and 19 (30.7%) females.

The median follow-up period of these colorectal cancer patients was 36 months (25th – 75th percentile: 8 – 60 months). During the 5 year follow-up period, 8 of them were dead and 3 were lost to follow-up.

The overall observed survival rate of the colorectal cancer patients at 5 year follow-up period was 83.7% (95% CI: 69.3 – 91.8) (Fig. 1). The survival among the male patients was 81.6% (95% CI: 62.0 – 91.7) and female was 87.5% (95% CI: 58.6 – 96.7) (Fig 2). The male patients seem to have lower observed survival rate. The survival seems to have no difference between the age group of > 50 and ≤ 50 years old, of which the survival rate was 82.0% (95% CI: 64.9 – 91.3) and 90.9% (95%CI: 50.8 – 98.7) respectively (Fig. 3).

The observed survival of early stage colorectal cancers, i.e., stage 1 and 2 was 100.0% and 83.3% (95% CI: 27.3 – 97.5) respectively, while the survival of the late stages, i.e., stage 3 and 4 was 87.1% (95% CI: 65.0 – 95.6) and 33.7% (95% CI: 1.6 – 75.3) respectively (Fig. 4). The observed survival tends to be decreased as the cancer stage advanced. Especially in the stage 4, the survival was substantially decreased.

Kaplan-Meier survival estimate

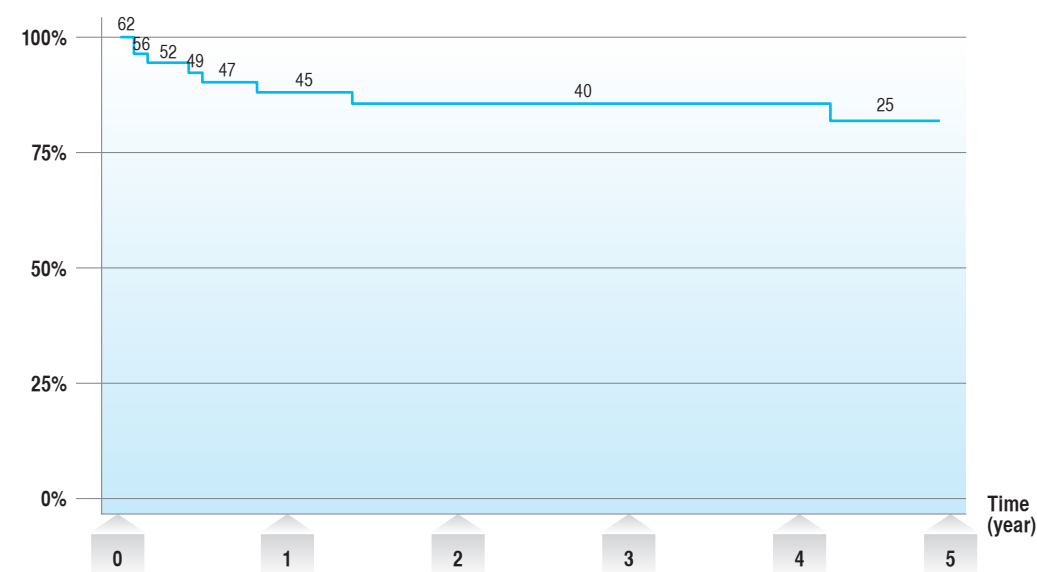


Figure 1. Overall observed survival rate of the colorectal cancer patients in WSH during 5 year follow-up period

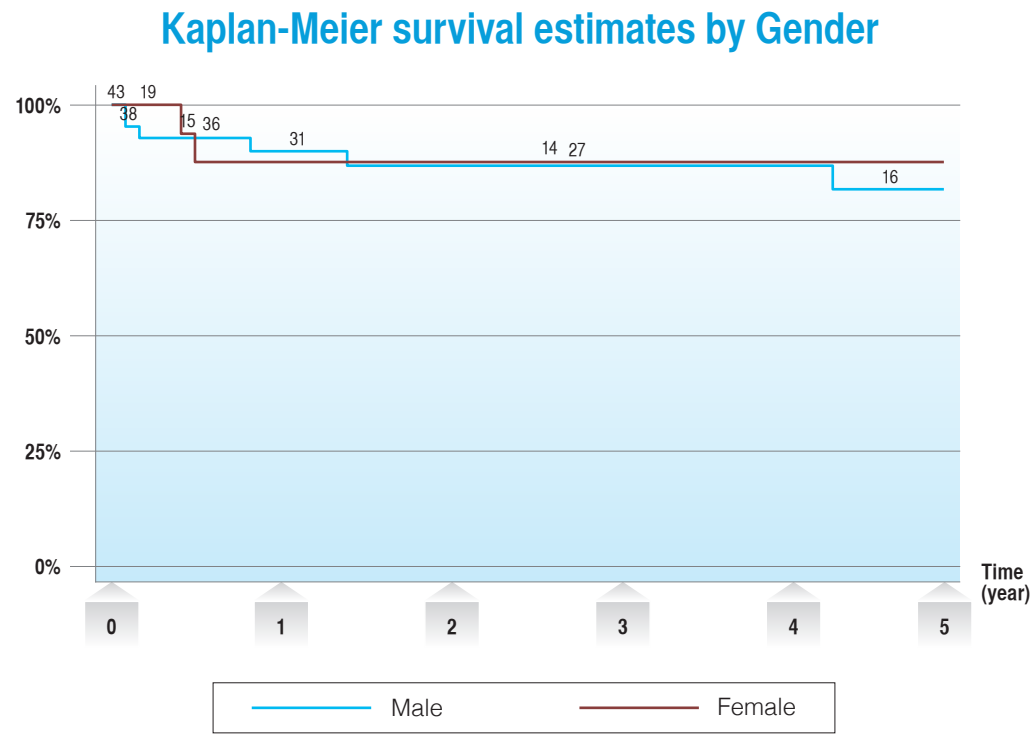


Figure 2. Observed survival rate of the colorectal cancer patients in WSH during 5 year follow-up period by gender (male and female)

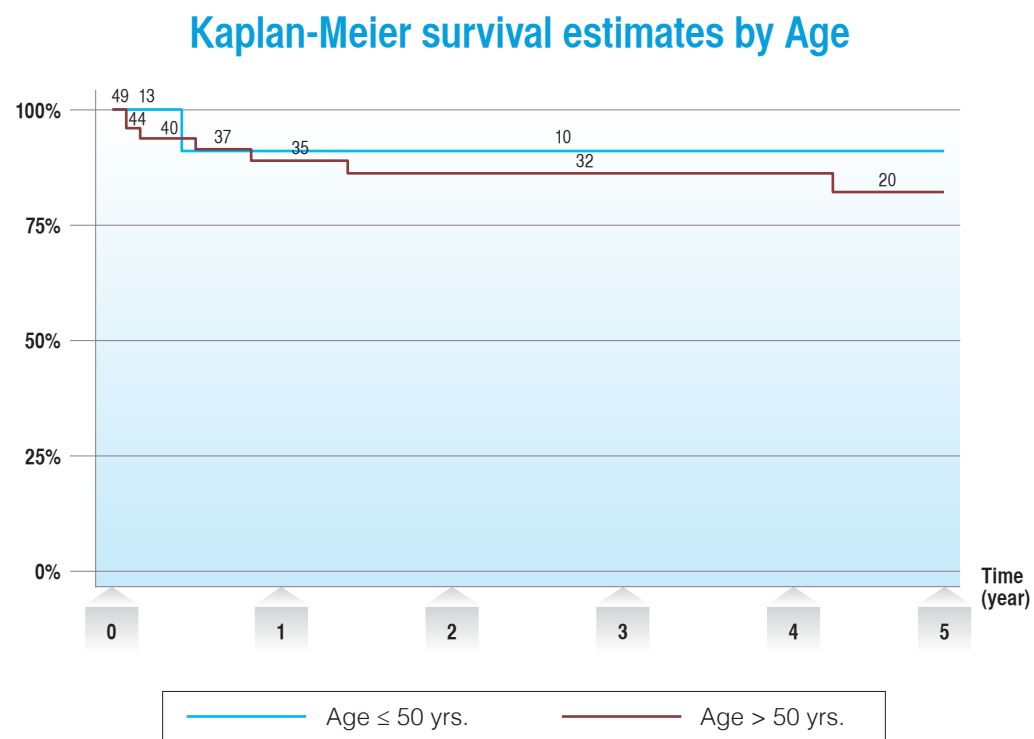


Figure 3. Observed survival rate of the colorectal cancer patients in WSH during 5 year follow-up period by age group of ≤ 50 and > 50 years old

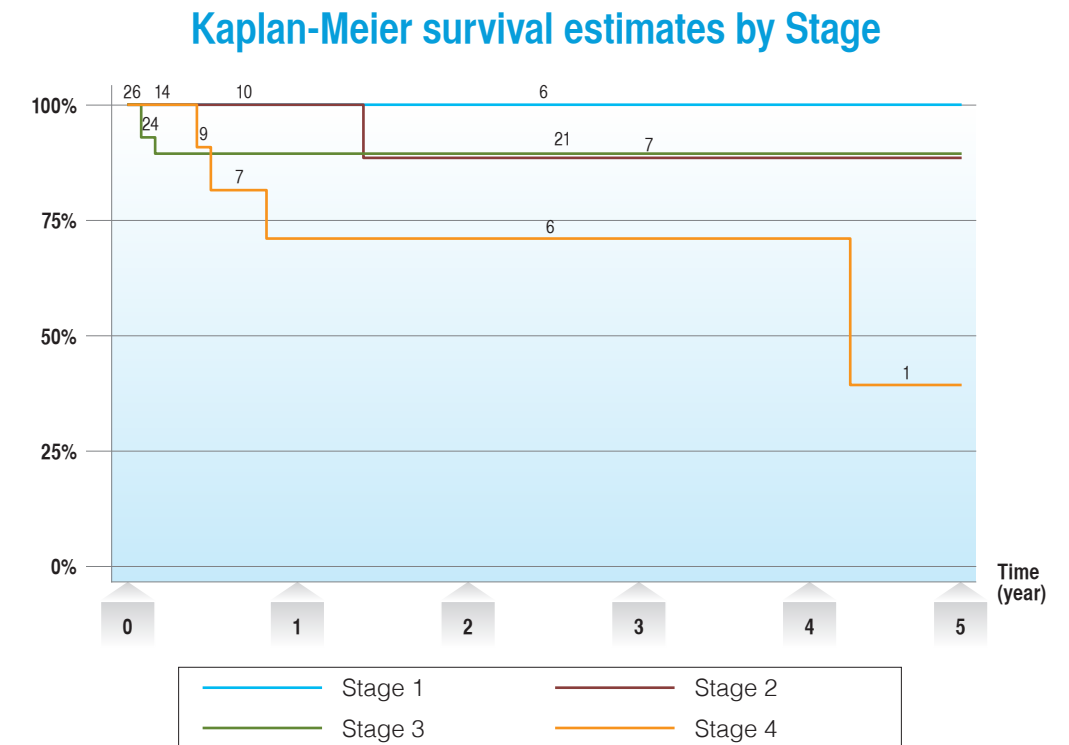


Figure 4. Observed survival rate of the colorectal cancer patients in WSH during 5 year follow-up period by stage of the cancer at diagnosis (stage 1 – 4)

LUNG CANCER SURVIVAL

76 cases were diagnosed lung cancer during January 1 to December 31, 2008. At the time of diagnosis, 13 (18.1%) of them were at stage 1, 1 (1.4%) at stage 2, 10 (13.9%) at stage 3, and 48 (66.7%) at stage 4. Their average age was 62.3 years old (SD ± 12.2). 11 (14.5%) of them aged ≤ 50 years old and 65 (85.5%) aged > 50 years old. Among of them, there were 49 (64.5%) males and 27 (35.5%) females.

The median follow-up period of these lung cancer patients was 9 months (25th – 75th percentile: 3 – 27). During the 5 year follow-up period, 27 of them were dead and 2 were lost to follow-up.

The observed survival rate of the lung cancer patients at 5 year follow-up period was 37.5% (95% CI: 20.7 – 54.2) (Fig. 1). The survival seems to have no difference between male and female patients, of which the survival rate was 23.7% (95% CI: 6.7 – 46.3) and 52.4% (95% CI: 24.9 – 74.1) respectively (Fig. 2). The survival of patients aged > 50 and ≤ 50 years old was 36.5% (95% CI: 18.9 – 54.4) and 56.1% (95% CI: 19.5 – 81.5) respectively (Fig. 3). The patients aged > 50 years old seem to have lower observed survival rate.

The observed survival rate of early stage lung cancers, i.e., stage 1 and 2 was 100.0% and 100.0% respectively while the survival of late stages, i.e., stage 3 and 4 was 22.5 (95% CI: 1.2 – 60.3) and 10.2% (95% CI: 0.7 – 34.6) respectively (Fig. 4). The observed survival tends to be decreased as the cancer stage advanced.

Kaplan-Meier survival estimate



Figure 1. Overall observed survival rate of the lung cancer patients in WSH during 5 year follow-up period

Kaplan-Meier survival estimates by Gender

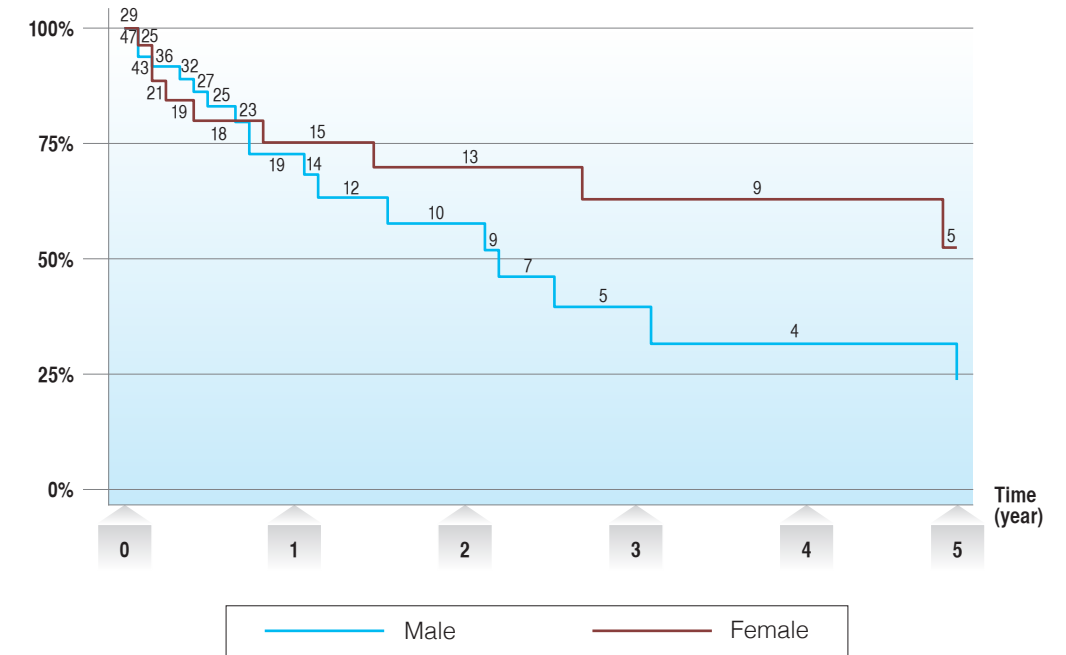


Figure 2. Observed survival rate of the lung cancer patients in WSH during 5 year follow-up period by gender (male and female)

Kaplan-Meier survival estimates by Age

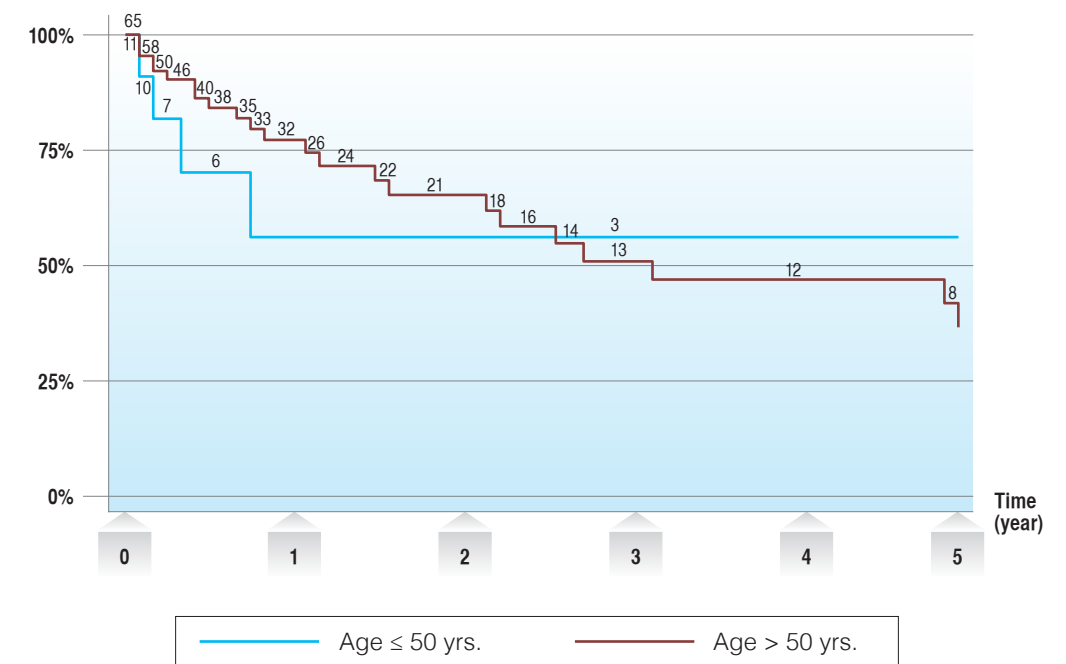


Figure 3. Observed survival rate of the lung cancer patients in WSH during 5 year follow-up period by age group of ≤ 50 and > 50 years old

Kaplan-Meier survival estimates by Stage

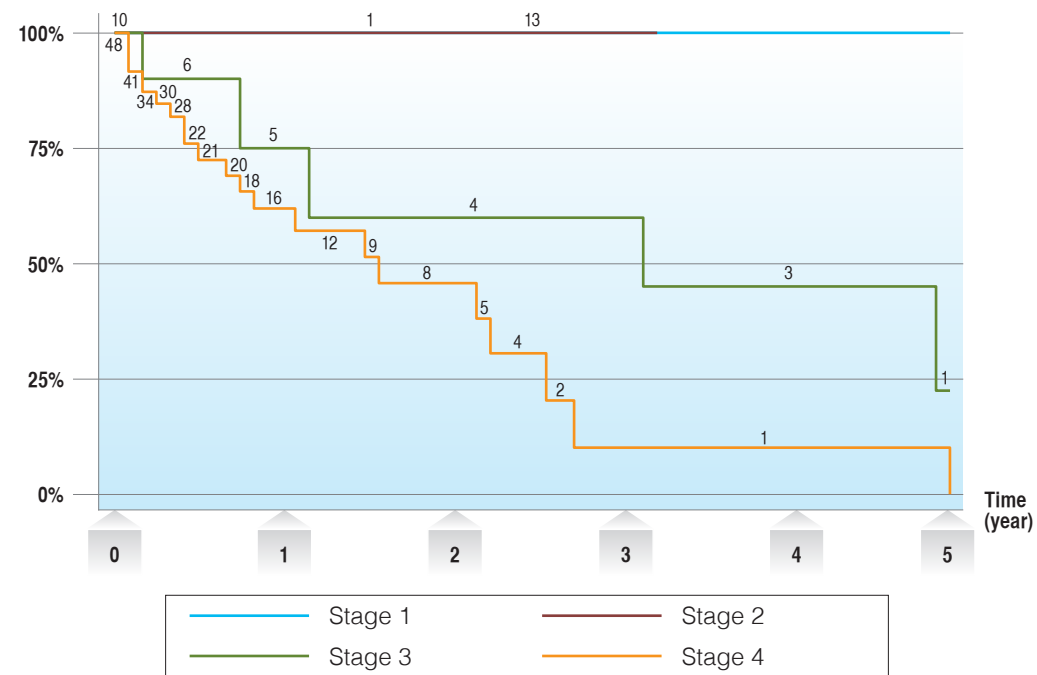


Figure 4. Observed survival rate of the lung cancer patients in WSH during 5 year follow-up period by stage of the cancer at diagnosis (stage 1 – 4)



Komgrit Tanisaro
M.D.



Natthaphum Khanchanaporn
M.D.



Surachai Sitawarin
M.D.



Saengduan Chindavijak
M.D.



Waraphorn Chomphu
Tumor Registered-Officer (WSH)



Pichet Pariyarungsi
Senior Business Intelligence Manager