

2016
ANNUAL
CANCER REPORT
with 2015 Registry Data



Patrick Maloney

President & CEO
Franciscan Health
Dyer, Hammond, Munster

Cancer has never been more survivable than it is today. Oncology services at Franciscan Health take great pride in always striving to improve the treatment modalities and quality of life for those affected by cancer and providing them a future of hope. We are constantly acquiring and implementing new cutting-edge technology and treatment techniques that are normally only available in research institutions and university hospitals.

The Oncology Center at Franciscan Health is:

- Recognized as one of the top hospitals for cancer treatment in the Midwest.
- Accredited with Commendation by the American College of Surgeons' Commission on Cancer, a voluntary survey, for the achievement of high practice standards.
- A university-level care center offering advanced technology, a comprehensive approach offering a wide range of services and a renowned staff.
- The only hospital in Northwest Indiana to offer gynecologic oncology services on a regular basis.

Our 2015 accomplishments include:

- American College of Radiology (ACR) Accreditation in Breast Ultrasound - Dyer Campus
- American College of Radiology (ACR) Accreditation in Stereotactic Breast Biopsy - Dyer Campus
- Prostate Screening (Clinical Research- Longitudinal Study) - 24th year
- Mammo-thon held in March for the Hammond Campus and May for the Dyer campus
- Community Outreach provided on-site for local businesses and at numerous Health Fairs
- Cancer Survivor's Day Celebration
- Flagship sponsor for the American Cancer Society Making Strides Against Breast Cancer Walk
- In conjunction with the American Cancer Society, the Look Good...Feel Better Program was offered quarterly
- Installed 3D Tomosynthesis Mammography unit in Dyer

I am so proud of our skilled and compassionate physicians, oncology staff and committee members, who help keep Franciscan Health at the forefront of cancer care. Thank you for making a positive difference in the lives of our patients and their loved ones.



CHAIRMAN'S REPORT

**Robert Prock, MD, Medical Director
Cancer Committee Chairman
Franciscan Health Radiation Oncology Center**

It is my privilege to present the 2016 Annual Cancer Registry Report for Franciscan Health. This report presents data from our cancer registry in 2015, including our many activities as we continually strive to improve upon our already strong cancer care program.

During 2015 the Cancer Registry recorded 678 new cases, with 597 Analytic and 81 Non-Analytic cases. A detailed description is found in our Cancer Registrar's report.

For continuing education of our cancer care staff, as well as other interested medical staff, the following guest speakers were invited to our facilities, and honored us with informative and thought provoking discussions:

- 09/03/15 Neil H. Hyman, MD, FACS, Department of Surgery, University of Chicago, "Evolving Paradigms in the Treatment of Rectal Cancer."
- 10/22/15 Rita Nanda, MD, Assistant Professor of Medicine, Associate Director, Breast Medical Oncology Program, University of Chicago Medicine, "Targeting Triple-Negative Breast Cancer."
- 11/10/15 Alan Tan, MD, Medical Oncology, Neel Shah, MD, Medical Oncology, and Jovenel Cherenfant, MD, Surgeon; "Progress in Cancer Treatment."

We continued our longstanding annual prostate screening clinic in 2015. A total of 115 participants from both campuses were screened, and 24 abnormal PSAs were identified. All participants received results, and follow up contacts were done on all patients. Four of the 24 had biopsies. Two of the four biopsies were positive for prostate cancer. One of these patients went on to receive radiation treatments, and the other opted for no treatment.

We have many Multidisciplinary Educational Tumor Boards that continue to be well attended, and which remain a good teaching platform as well as an ideal forum to discuss real time patient care options with many specialties all at once. We continue multi-organ tumor boards at both campuses, as well as specialty tumor boards including gynecologic and breast.

Quality improvements are ongoing as always. Notable improvements in 2015 include implementation of the automatic chart checker in our radiation oncology department. This chart checker has been successful in its goals; decreasing second check time, performing more accurate and more uniform beam parameter checks, and detecting common/uncommon errors. The programming has continued to expand beyond these original goals-now also performing more detailed analyses including MLC checks, contour checks, and field name verifications.

Enhancement of services within our facility Breast Center

These enhancements include expanded hours for better patient access, with screening mammogram appointments Monday-Saturday with early morning and evening hours often available. Further improved conveniences include scheduling mammograms and bone density scans together, and same day results and same day workup often available during designated hours.

Many other programs have continued from previous years, all in an effort to give our cancer patients optimal care and follow up. In addition to the prostate cancer screening, our low-dose lung cancer screening program continues to grow, and the cancer rehabilitation program through Rehabilitation Institute of Chicago at Franciscan Health is available to improve patient's quality of life and recuperation during/after cancer treatment.

In summary, we remain diligent in our efforts to continue our highest quality cancer care. Continuing education discussions from specialists in the top of their fields offer us detailed reviews and keep us up to date on any advances and allow us to deliver stellar care. Screening programs help our community identify cancers early when they are most treatable. Software improvements make technologically advanced cancer treatments both feasible and more convenient for patients. We also are always striving to optimize communication and patient teaching, which allows us to improve the quality of life of our patients both during and after cancer treatments. In addition, we continue to improve convenience for patients, as we understand how important time is to our patients.

All these efforts from our dedicated staff will certainly improve patient experiences and outcomes.

Robert Prock, M.D.
Medical Director
Franciscan Health
Radiation Oncology Center
Cancer Committee Chairman



CANCER REGISTRY REVIEW

Amelia E. Martinez, RHIT, CTR
Certified Tumor Registrar / Cancer Conference Coordinator

The Cancer Registry is the pivot point around which the other components of the cancer program revolve. The registry is the data depository for all aspects of Franciscan Health's experience with cancer diagnostics, treatment, and follow-up of its cancer patients.

The Cancer Registry at Franciscan Health began prospectively collecting data for its patients January 1, 1968. The current reference date is January 1, 2000. In 2015, 678 cases were accessioned into the database. There were 597 analytic and 81 non-analytic cases, excluding carcinoma in-situ cervix, basal, and squamous skin cancers.

Cases are reported to the Indiana State Cancer Registry on a monthly basis via the Electronic Registry System as well as a yearly submission to the National Cancer Data Base. Submission to the National Cancer Data Base allows Franciscan Health to be part of the comparative analysis with other hospitals nation wide.

Annual lifetime follow-up of analytic patients is done in the cancer registry. Franciscan Health total Commission on Cancer reference year follow-up rate is 90.23%, and the five year follow-up rate is 90.38%. Both meet the required standards set by the American College of Surgeons, Commission on Cancer.

Amelia E. Martinez, RHIT,CTR is a member of the National Cancer Registrars Association as well as the Indiana Cancer Registrars Association.

The registry, staffed by two Certified Tumor Registrars, is responsible for case finding, abstracting and follow-up as well educational cancer conferences held for the benefit of the medical staff, allied health professionals, and students. Multiple specialists discuss the cases and the diagnostic images and pathology are reviewed, along with treatment planning and a pertinent review of the medical literature.

Amelia E. Martinez, RHIT, CTR
Certified Tumor Registrar/Tumor Registry and Cancer Conference Coordinator

PROGRAMS AND SERVICES

Inpatient

The Oncology Unit supplies the setting for a multi-disciplinary team approach to cancer care. Physicians, nurses, pharmacists, dietitians, social workers, medical case managers and spiritual care representatives' work together to provide for the physical, psycho-social and spiritual needs of cancer patients and their families.

Competent nursing care, based on specialized training and clinical expertise, assists the physician in providing the patients with relief from the symptoms of cancer and its treatments. Nursing education for the patient and family, plus active discharge planning, facilitates an optimal return to the community.

Franciscan Health Resource Center

Franciscan Health provides resources to the community including physician referral service with access to members of our medical staff, information on hospital programs and services, health information, educational programs and class registration, support groups, and a free health resource library. Simply call 1-800-931-3322 or visit our website FranciscanHealth.org.

At Franciscan Health, your needs come first. Whether you need technical information, emotional support or the best cancer-fighting treatment available, our expert team of oncology professionals are here to care for you. Every aspect of our center, from its convenient parking, ground level entrance and soothing décor, to our state-of-the-art advanced treatment technology, reflects our commitment to meeting your needs. Our dedicated and caring health care team provides professional expertise when you need it the most. We provide family education and long-term monitoring, which are all critical components of Franciscan Health.

The Oncology Center's state-of-the-art treatment services include diagnosis, surgery, radiation therapy, infusion services such as chemotherapy, biologic response modifiers, blood transfusions and support services such as a breast nurse navigator, nutrition services, pain management, physical therapy, social service and financial counseling.

Radiation Therapy

- CT Simulation. Our CT simulation process features cutting-edge innovation that enhances the process of detection and treatment of cancer. With skillful merging of imaging, ingenuity and invention, our CT provides the best solution for imaging, localization, simulation, and treatment planning. The CT allows our team to accurately scan patients without sacrificing patient immobilization or comfort. The combined effect is a CT simulator that compromises nothing in order to give the best patient care.
- Varian Eclipse Treatment Planning System. The information from the CT is transferred to Varian Eclipse™, a comprehensive treatment planning system. Eclipse™ allows further fine tuning of the target with image fusion of diagnostic MRI and PET scans. It enhances modern radiation therapy planning for various types of treatments, including 3D conformal therapy, intensity-modulated radiation therapy (IMRT), and electron therapy. With the rich functionality in Eclipse, dosimetrists, physicists, and physicians can accurately create, select, and verify the treatment plan that best conform the radiation dose to the area of interest while sparing normal tissues.
- Siemens Primus™ and Siemens Onco™ Multienergy Linear Accelerators with On-board Portal Imaging and IGRT Capabilities. These linear accelerators are the most compact system with the greatest clearance around patients available today. Using multileaf collimators, they can deliver 3-D Conformal Radiation Therapy and Intensity Modulated Radiation Therapy (IMRT™). IMRT is an advanced way to deliver complex doses of radiation to tumors –

including tumors near vital organs and other sensitive areas – while minimizing radiation to healthy tissue. The treatment units have on-board portal imaging and IGRT (Image Guided Radiation Therapy) capabilities that allow us to ensure the correct location of the radiation delivery.

- High-dose rate (HDR) Remote After-loading Brachytherapy. A Nucletron HDR remote after-loading brachytherapy unit and Nucletron Oncentra treatment planning software are used to provide internal radiotherapy, or brachytherapy. The radiation source that is used to kill cancer cells and shrink tumors is placed in or close to the tumor itself. This precision brachytherapy approach allows a physician to concentrate a high dose of radiation in a smaller area, with less damage to nearby, healthy body tissues and organs, over a shorter treatment period. Brachytherapy has long been regarded as a standard of care in the treatment of cervical and endometrial cancer. This HDR system avoids hospitalization and bed confinement for 2-3 days as required for low dose rate (LDR) brachytherapy.

Clinical Research

The Oncology Center is affiliated with the Radiation Therapy Oncology Group (RTOG) for participation in clinical trials.

Infusion Centers

Infusion Centers at FranciscanHealth Hammond, Dyer and Munster, Calumet Infusion and Franciscan Health Crown Point provide a full range of outpatient infusion services, including:

- Chemotherapy
- IV Therapy
- Hydration therapy
- Blood transfusions
- Venous access management

Pathology

Pathology uses modern diagnostic tools to evaluate tumors, including special stains, immunohistochemistry and flow cytometry. Pathologists provide information necessary for diagnosing, grading and staging of all neoplasms.

Pharmacy

The oncology pharmacist assists physicians and nursing staff in assessing drug therapy and safe drug handling, monitoring of side effects, control of pain and control of infection. The oncology pharmacist also aids in optimizing drug therapy for those patients who receive home health care. In conjunction with a dietitian, total parenteral nutrition (TPN) is provided for those patients who require intravenous nutritional support.

Case Management

Case Management provides support (nurse and social worker), not only for inpatients on the oncology unit, but also for Radiation Oncology outpatients. Case managers work with patients and their families in assessing and coordinating discharge planning needs in conjunction with their physician(s), nursing unit and insurance provider. They can assist with arranging for post-acute services, such as home health care, subacute care, homemaker services, hospice and durable medical equipment.

Spiritual Care

The Spiritual Care staff provide an active listening presence, prayer, faith reflection, sacramental service, bereavement support, pastoral counseling and other forms of spiritual support. Spiritual Care persons encourage patients and family members to embrace hope, forgiveness, reconciliation, peace and love as part of the healing process. Services often go beyond the hospital walls for follow-up visits and counseling for those who have lost a loved one.

Radiology

Imaging Services have state-of-the-art diagnostic centers in Hammond and Dyer that include a 64 slice CT scanner, a high- field 1.5 Tesla MRI, ultrasound, and digital x-ray that aid in the early detection and staging of cancer. The Breast Center offers enhanced mamography to include 2D and 3D Tomosynthesis, breast ultrasound, breast MRI, ultrasound guided breast biopsy and image-guided breast biopsy. The Breast Center received accreditation from the National Accreditation Program for Breast Centers (NAPBC), a division of the American College of Surgeons. The breast program is also accredited by the American College of Radiology, with the Dyer Campus a Breast Imaging Center of Excellence. (BICoE).

Pain Consultation

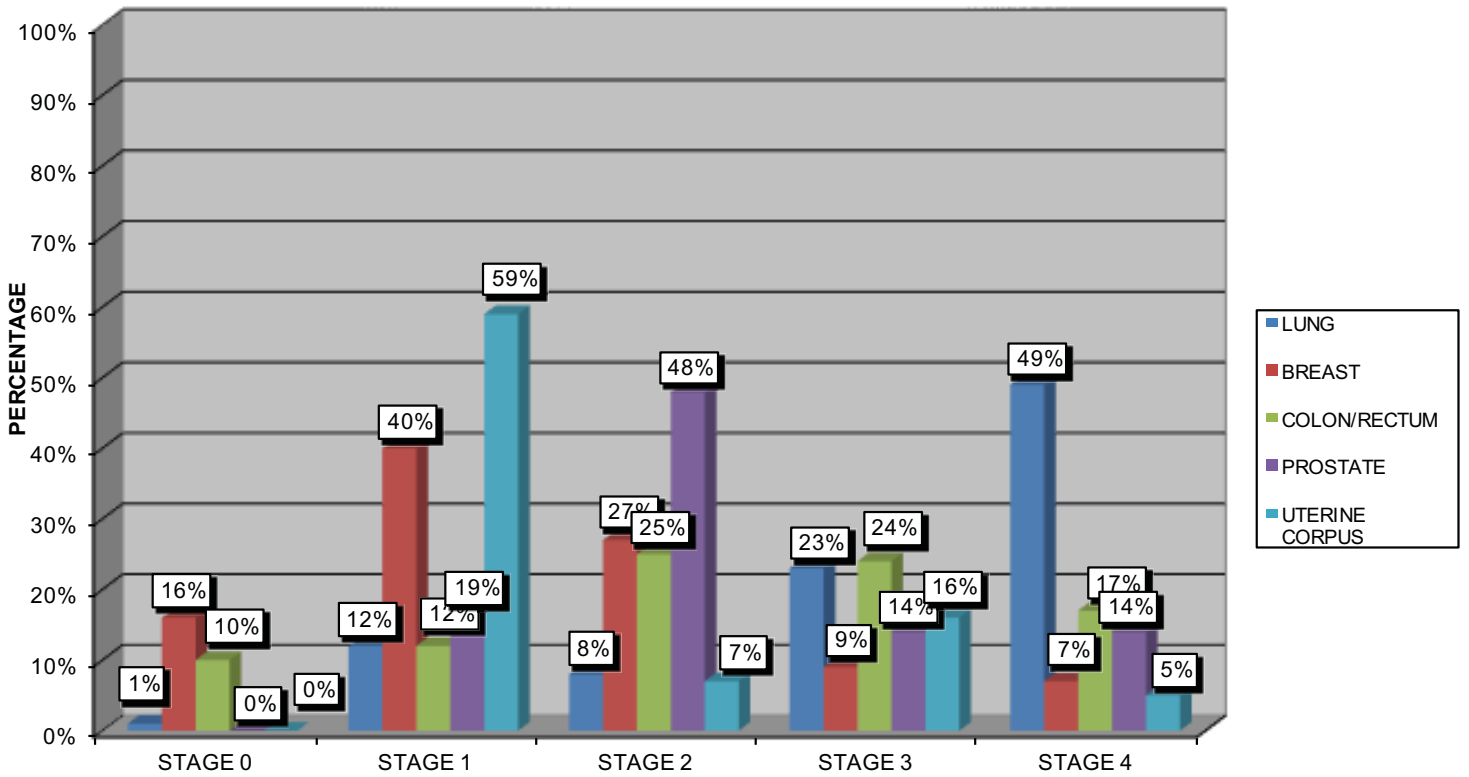
There are methods for controlling pain. Upon the referring physician's advice, the Pain Management Center can alleviate some pain through oral and intravenous medications, biofeedback, and nerve blocks or through elective surgery.

2015 FRANCISCAN HEALTH DISTRIBUTION TABLE

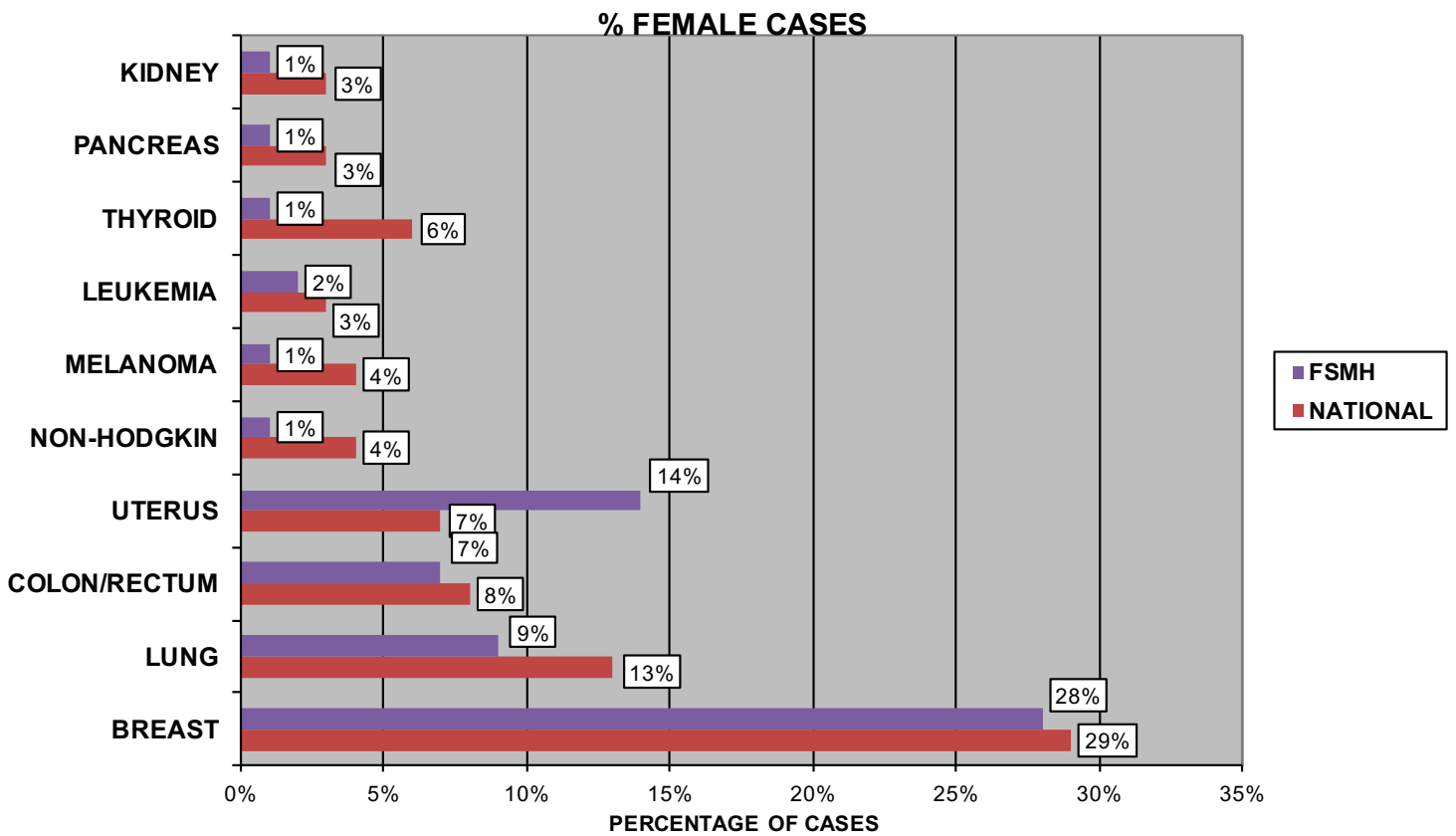
Primary Sites*	TOTAL	HAMMOND					DYER								
		A	NA	M	F	TOTAL	A	NA	M	F	TOTAL	A	NA	M	F
ALL CASES	678	597	81	288	390	275	235	40	138	##	403	362	41	150	250
ORAL CAVITY	9	8	1	8	1	7	6	1	6	1	2	2	0	2	0
LIP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TONGUE	2	1	1	1	1	2	1	1	1	1	0	0	0	0	0
OROPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HYPOPHARYNX	2	2	0	2	0	2	2	0	2	0	0	0	0	0	0
OTHER	5	5	0	5	0	3	3	0	3	0	2	2	0	2	0
DIGESTIVE SYSTEM	118	107	11	71	47	53	48	6	32	22	65	60	6	41	25
ESOPHAGUS	10	8	2	7	3	4	3	1	1	3	6	5	1	6	0
STOMACH	11	8	3	6	5	5	3	2	3	2	6	5	1	3	3
COLON	41	39	2	18	23	16	16	0	6	10	25	23	2	12	13
Rectum	21	19	2	15	6	10	7	3	8	2	13	13	0	9	4
Anus/Anal Canal	3	3	0	3	0	2	2	0	2	0	1	1	0	1	0
Liver	7	7	0	5	2	4	4	0	2	2	2	2	0	1	1
Pancreas	13	13	0	9	4	8	8	0	6	2	5	5	0	3	2
Other	12	10	2	8	4	4	4	0	2	0	8	6	2	6	2
RESPIRATORY SYSTEM	106	85	21	58	48	64	56	8	35	29	42	29	13	23	19
Nasal/Sinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Larynx	7	7	0	5	2	6	6	0	4	2	1	1	0	1	0
Lung/Bronchus	97	76	21	51	46	56	48	8	29	27	41	28	13	22	19
Other	2	2	0	2	0	2	2	0	2	0	0	0	0	0	0
BLOOD/BONE MARROW	31	28	3	23	8	21	19	2	13	8	10	9	1	10	0
Leukemia	9	7	2	6	3	5	4	5	2	3	4	3	1	4	0
Multiple Myeloma	11	10	1	9	2	7	6	1	5	2	4	4	0	4	0
Other	11	11	0	8	3	9	9	0	6	3	2	2	0	2	0
BONE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CONNECTIVE/SOFT TISSUE	6	4	2	2	4	4	2	2	1	3	2	2	0	1	1
SKIN	7	5	2	1	6	2	1	1	0	2	5	4	1	1	4
Melanoma	6	4	2	1	5	2	1	1	0	2	4	3	1	1	3
Other	1	1	0	0	1	0	0	0	0	0	1	1	0	0	1
BREAST	119	111	8	0	119	38	33	5	0	38	81	78	3	0	81
FEMALE GENITAL	98	90	8	0	98	11	8	3	0	11	88	82	6	0	88
Cervix Uteri	16	16	0	0	16	4	4	0	0	4	12	12	0	0	12
corpus Uteri	62	58	4	0	62	3	2	1	0	3	60	56	4	0	60
Ovary	14	13	1	0	14	2	2	0	0	2	12	11	1	0	12
Vulva	5	3	2	0	5	1	0	1	0	1	4	3	1	0	4
Other	1	0	1	0	1	1	0	1	0	1	0	0	0	0	0
MALE GENITAL	57	45	12	57	0	17	10	7	17	0	40	35	5	40	0
Prostate	54	42	12	54	0	17	10	7	17	0	37	32	5	37	0
Testis	2	2	0	2	0	0	0	0	0	0	2	2	0	2	0
Other	1	1	0	1	0	0	0	0	0	0	1	1	0	1	0
URINARY SYSTEM	36	32	4	26	10	12	10	2	9	3	25	23	2	17	8
Bladder	19	18	1	15	4	7	6	1	6	1	12	12	0	9	3
Kidney/Renal	16	13	3	10	6	5	4	1	3	2	12	10	2	7	5
Other	1	1	0	1	0	0	0	0	0	0	1	1	0	1	0
BRAIN & CNS	47	43	4	23	24	16	15	1	11	5	31	28	3	12	19
Brain (Benign)	6	6	0	4	2	5	5	0	4	1	1	1	0	0	1
Brain (Malignant)	10	9	1	5	5	0	0	0	0	0	10	9	1	5	5
Other	31	28	3	14	17	11	10	1	7	4	20	18	2	7	13
ENDOCRINE	18	17	1	6	12	11	11	0	3	8	7	6	1	3	4
Thyroid	7	7	0	2	5	2	2	0	0	2	5	5	0	2	3
Other	11	10	1	4	7	9	9	0	3	6	2	1	1	1	1
LYMPHATIC SYSTEM	17	14	3	9	8	13	11	2	7	6	4	3	1	2	2
Hodgkin's Disease	2	2	0	2	0	2	2	0	2	0	0	0	0	0	0
Non-Hodgkins	15	12	3	7	8	11	9	2	5	6	4	3	1	2	2
UNKNOWN PRIMARY	8	7	1	3	5	7	6	1	3	4	1	1	0	0	1
OTHER/ILL DEFINED	1	1	0	1	0	0	0	0	0	0	1	1	0	1	0

*HAMMOND AND DYER CAMPUS: EXCLUDES CA INSITU CERVIX, BASAL AND SQUAMOUS SKIN CANCERS

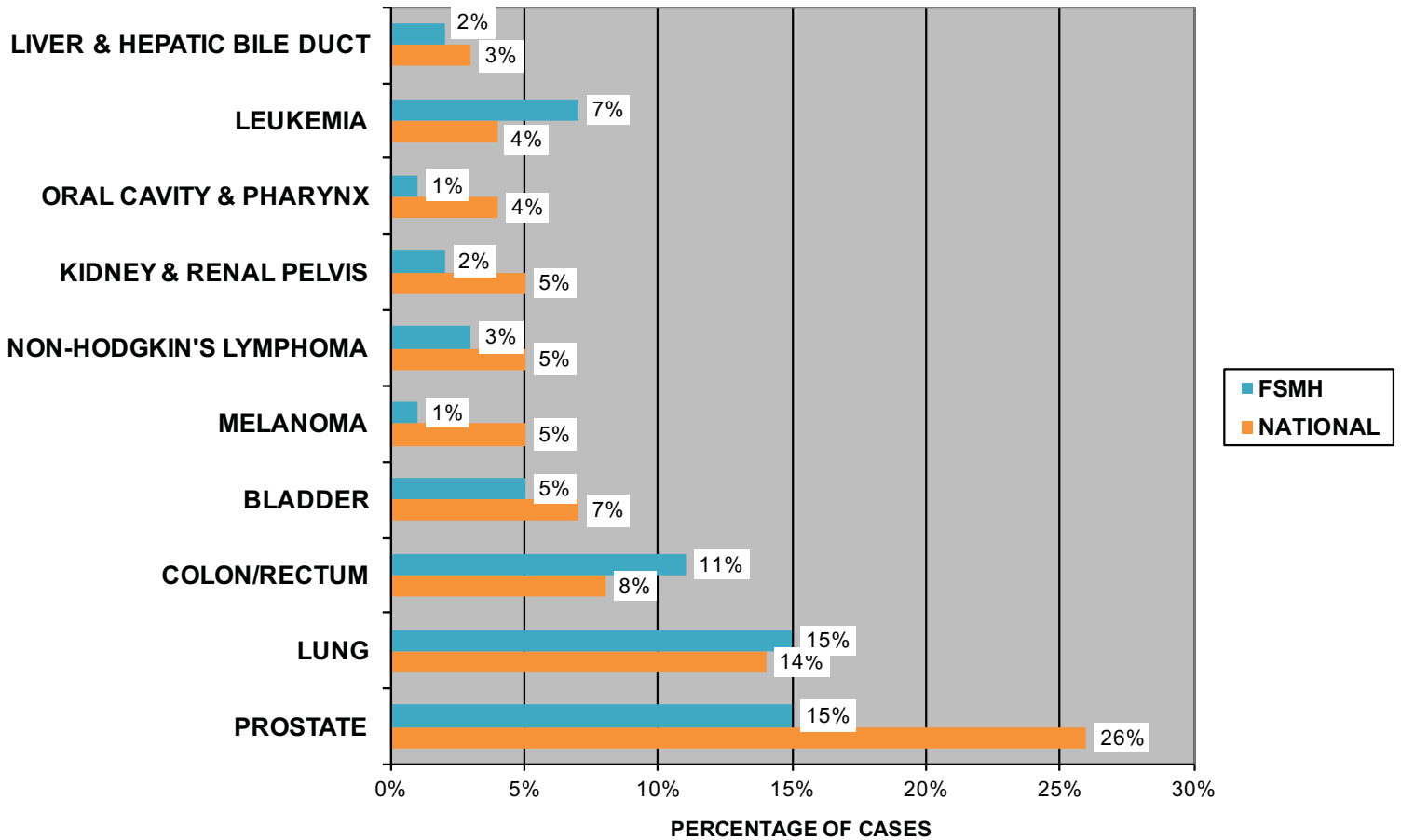
**2015 FRANCISCAN HEALTH
TOP FIVE ANALYTIC CANCER CASES
BY AJCC STAGE GROUPS**



COMPARISON BY SITE AND GENDER: 2015 FSMH AND NATIONAL DATA

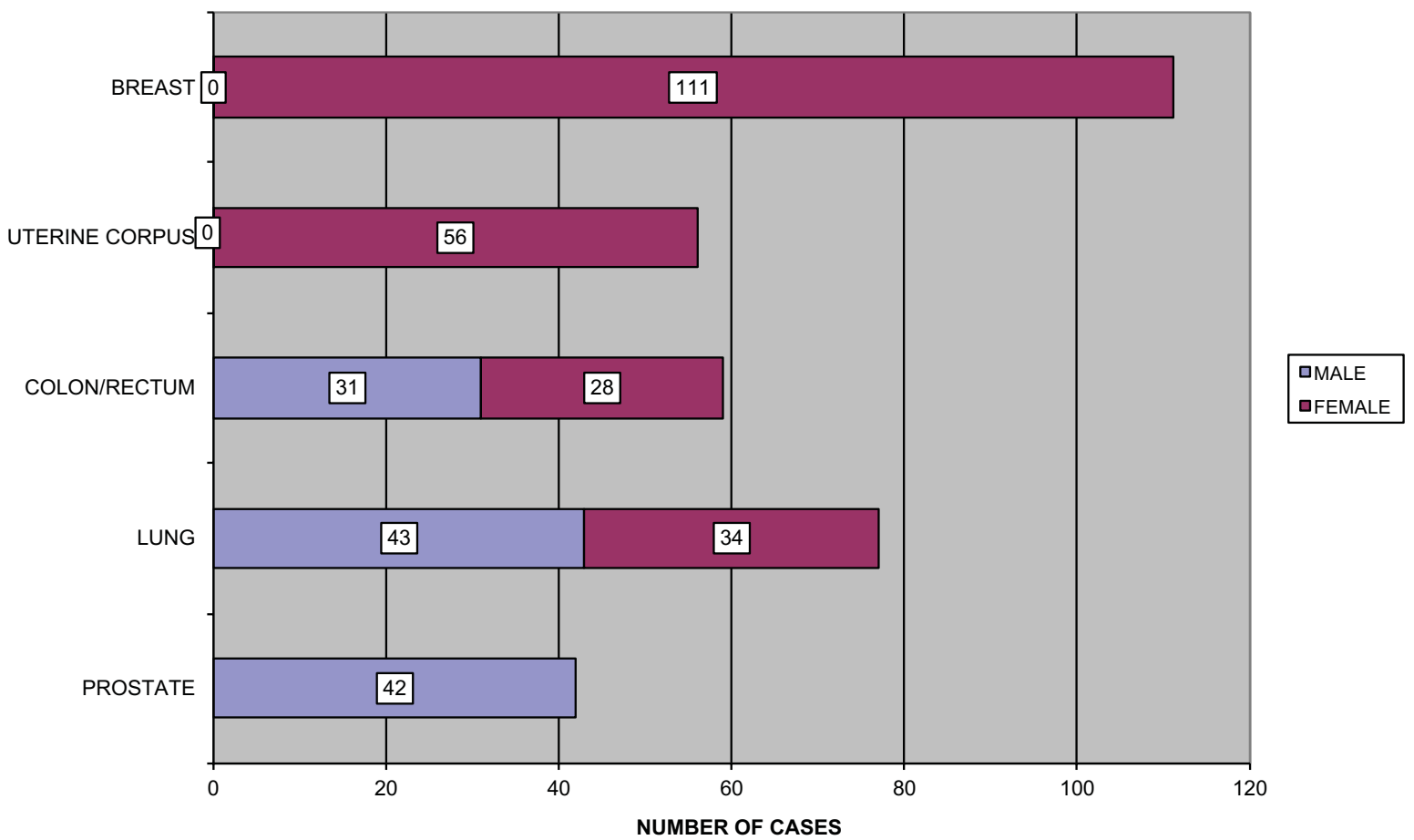


% MALE CASES



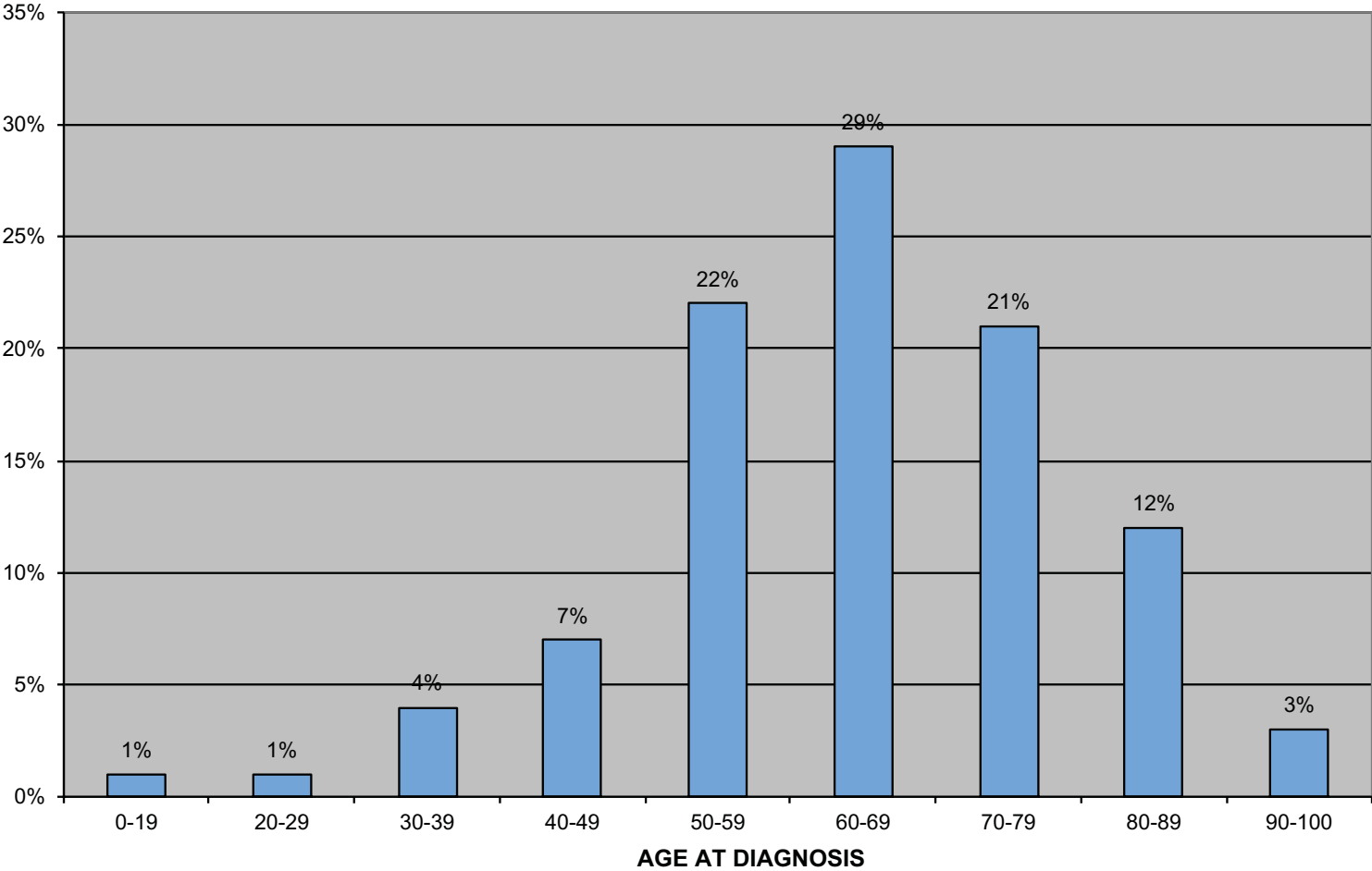
Source of national data: Cancer Facts and Figures, 2015
American Cancer Society

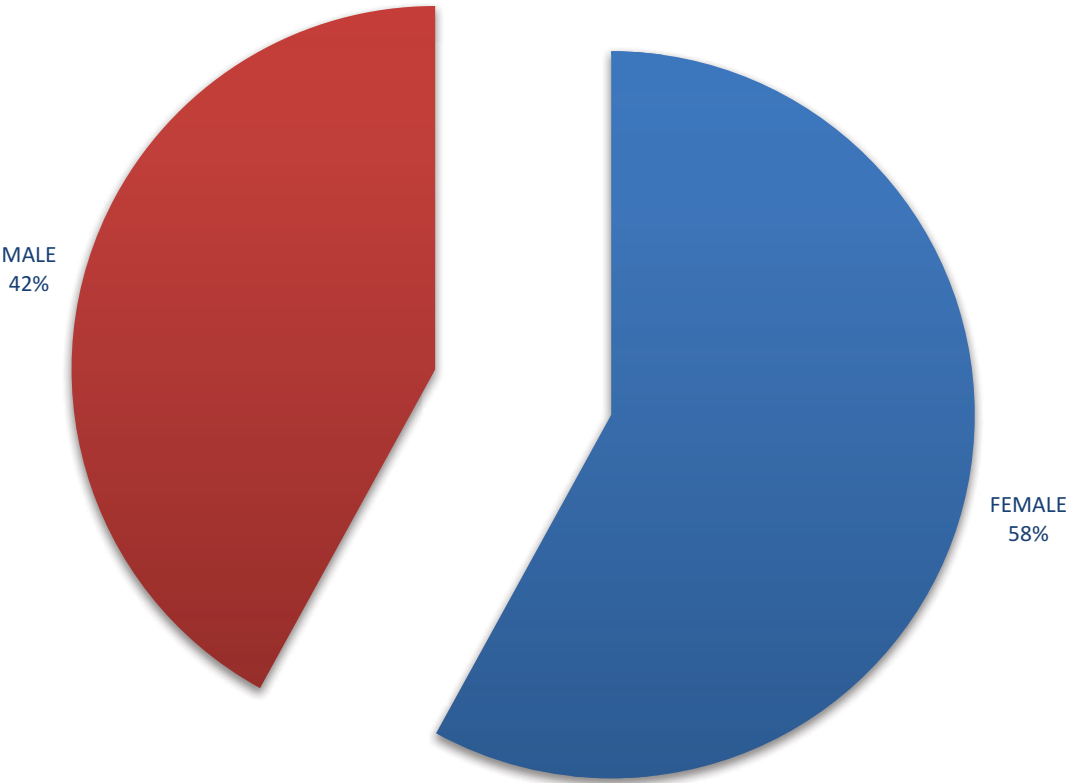
MAJOR SITES BY GENDER: BOTH CAMPUSES (2015 analytic cases)





AGE AT DIAGNOSIS: ALL CASES





*EXCLUDES CA INSITU CERVIX, BASAL AND SQUAMOUS SKIN CANCERS

■ FEMALE ■ MALE

2015 REGISTRY FOLLOW-UP CALCULATIONS

CoC Reference Year Follow-Up Rate*	90.23%
Last Five Years Follow-Up Rate**	90.38%

excludes non-analytic cases, benign tumors, borderline malignancy, superficial skin cancers and carcinoma in situ of the cervix

*a minimum of 80% successful follow-up rate is required by the American College of Surgeons, Commission on Cancer

**a minimum of 90% successful follow-up rate is required by the American College of Surgeons, Commission on Cancer

CANCER COMMITTEE MEMBERS 2015

Robert Prock, MD (Chairperson)	Radiation Oncology
Dougal D'Souza, MD (Cancer Liaison Physician)	Surgery
Luke Miller, MD	Radiation Oncology
Reshma Ariga, MD	Pathology
O.J. Lee, MD	Internal Medicine
Mohammad Kassar, MD	Medical Oncology
Sasmita Misra, MD	Radiology
Burt Piper, PharmD,MBA	Administration
Tracy Franovich, RN,MHA MBA	Administration
Cindy Duran RT (R) (T)	Director, Oncology Center and Breast Center
Pam Levy, RN	Oncology Nurse Manager
Neel Shah, MD	Medical Oncologist
Amy O'Donnell-Fout, RN CHPN	Palliative Care
Lisa Crabtree, RN,	Oncology Nurse/Clinical Research Coordinator
R. Ameeruddin,MD	Rehabilitation representative
Alison Harber, PharmD	Pharmacy
Teresa Van Horssen, R.N.	Breast Nurse Navigator
Sue Hallenbeck, HRIA	Quality Improvement Coordinator
Sharon Malecha	Community Outreach Coordinator
Millie Descamp, MSW LCSW,ACSW	Social Services/Psychosocial Services Coordinator
Josef Dou	Spiritual Care
Rachelle Anthony	Representative, American Cancer Society
Amelia E. Martinez RHIT,CTR	Certified Tumor Registrar/ Tumor Registry and Cancer Conference Coordinator
Tracie L. Banks RHIT, CTR	Certified Tumor Registrar/Cancer Registry Quality Coordinator