

2017 CANCER REPORT

with data from 2016



Franciscan HEALTH
CANCER CENTER



Patrick Maloney

President and 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.

The Cancer Program at Franciscan Health is:

- Recognized as one of the top hospitals for cancer treatment in the Midwest.
- Accredited 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 2016 accomplishments include:

- American College of Surgeons (CoC) reaccreditation
- American College of Surgeons National Accreditation Program for Breast Centers (NAPBC) reaccreditation

- Breast Imaging Center of Excellence reaccreditation by the American College of Radiology (ACR)
- Redesignated as a Lung Screening Center of Excellence through the Lung Cancer Alliance.
- Prostate Screening (Clinical Research – Longitudinal Study)- 25th year
- Mammo-thon
- Cancer Survivor's Day Celebration
- Flagship Sponsor for the American Cancer Society's Making Strides Against Breast Cancer Walk
- In conjunction with the American Cancer Society, offered a quarterly Look Good, Feel Better Program.
- Participated in more than fifteen community based health fairs.



CHAIRMAN'S REPORT

Robert Prock, MD, Medical Director

Cancer Committee Chairman
Franciscan Health Radiation
Oncology Center

It is my privilege to present the 2017 Annual Cancer Registry Report for Franciscan Health-Hammond and Dyer. This report presents data from our cancer registry in 2016, including our many activities as we continually strive to improve upon our already strong cancer care program.

During 2016 the Cancer Registry recorded 669 new cases, with 590 Analytic and 79 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:

- | | |
|----------|---|
| 04/21/16 | Neel Shah, MD, FACP, Hematology/Oncology, and Jovenel Cherenfant, MD, General Surgeon, Franciscan Alliance; "Progress in Cancer Treatment" |
| 10/07/16 | Ruta Rao, MD, Associate Professor of Medicine, Director of Coleman Foundation Comprehensive Cancer Clinic, RUSH University Medical Center; "Updates in Endocrine Therapy" |
| 12/12/16 | Robin Cohen, MD, M.P.H., Director of Rehabilitation Center, and Victoria Stenulson, P.T., Franciscan Alliance; "Cancer Related Fatigue" |

We continued our longstanding annual prostate screening clinic in 2016. A total of 72 participants from both campuses were screened and nine abnormal PSAs were identified. All participants received results and follow up contacts were done on all patients. Eight of the nine followed up with their physician and decision was for no biopsy. One of the nine did undergo biopsy, which was negative.

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 focused tumor boards including gynecologic and breast.

Quality improvements are ongoing as always. Notable improvements in 2016 include:

The Radiation Oncology Physics department implementing the Mosaic Monitor system, which resulted in improved workflow and documentation, and the prevention of rare potential treatment errors. Also, due to the current treatment volume, and the anticipation of increased patient volume with the future opening of the new Comprehensive Cancer Center in Munster, the Radiation Physics staff was expanded.

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 Rehab Institute of Chicago at Franciscan 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 at the top of their fields offer us detailed reviews, and keep us up to date on any advances, and allows 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 feasible, efficient, 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. For example, this is especially important with a repetitive treatment course, such as daily radiation therapy. The Radiation Oncology team makes it a priority to go above and beyond in terms of flexibility and helpfulness with its patients. All these efforts from our dedicated staff in many coordinated departments will certainly improve patient experiences and outcomes.

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



CANCER REGISTRY REVIEW

Amelia E. Martinez, RHIT, CTR

Certified Tumor Registrar and
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 Hammond began prospectively collecting data for its patients January 1, 1968. The current reference date is January 1, 2000. In 2016, 669 cases were accessioned into the database. There were 590 analytic and 79 non-analytic cases, excluding carcinoma in-situ cervix, basal, and squamous skin cancers. Analytic cases are patients diagnosed and/or receiving their first course treatment at our facility. Non-Analytic cases completed their first course treatment elsewhere and were seen at our facility only for subsequent treatment.

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 Hammond and Dyer 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 Hammond and Dyer total Commission on Cancer reference year follow-up rate is 90.10%, and the five year follow-up rate is 90.47%. 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.

Health Resource Center

Franciscan Health Hammond's Health Resource Center is a call center for our Physician Referral service, who help patients connect with appropriate providers. The Health Resource Center also provides information on hospital programs and services, health information, educational programs and class registration, support groups, and offers a free health resource library. Simply call 1-800-931-3322.

Oncology Center

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.

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 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 (CoC), a voluntary survey, for the achievement of high practice standards.
- Accredited by the American College of Surgeons' National Accreditation Program for Breast Centers (NAPBC).
- Accredited by the American College of Radiology as a Breast Imaging Center of Excellence (BICoE)
- 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.

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

PROGRAMS AND SERVICES *continued*

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 Oncor™ 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 NRG Oncology National Clinical Trials Network group for participation in clinical trials.

PROGRAMS AND SERVICES *continued*

Infusion Centers

Infusion Centers at Franciscan Health Hammond, Franciscan Health Munster, Calumet Infusion Center 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 the diagnosis, 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 case management 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), the 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 full-field digital mammography with 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 of any pain through oral and intravenous medications, biofeedback, and nerve blocks or through elective surgery.

Coming in July 2018:

Franciscan Health Munster is building a 3-story Cancer Center with total square footage of just under 84,000 square feet. In order to accommodate future growth, the center has the capability of vertical expansion to add up to 3 additional floors, which would be approximately 32,000 square feet.

The Cancer Center is designed to offer comprehensive care for oncology patients including not only treatments but screenings and support services.

This will include:

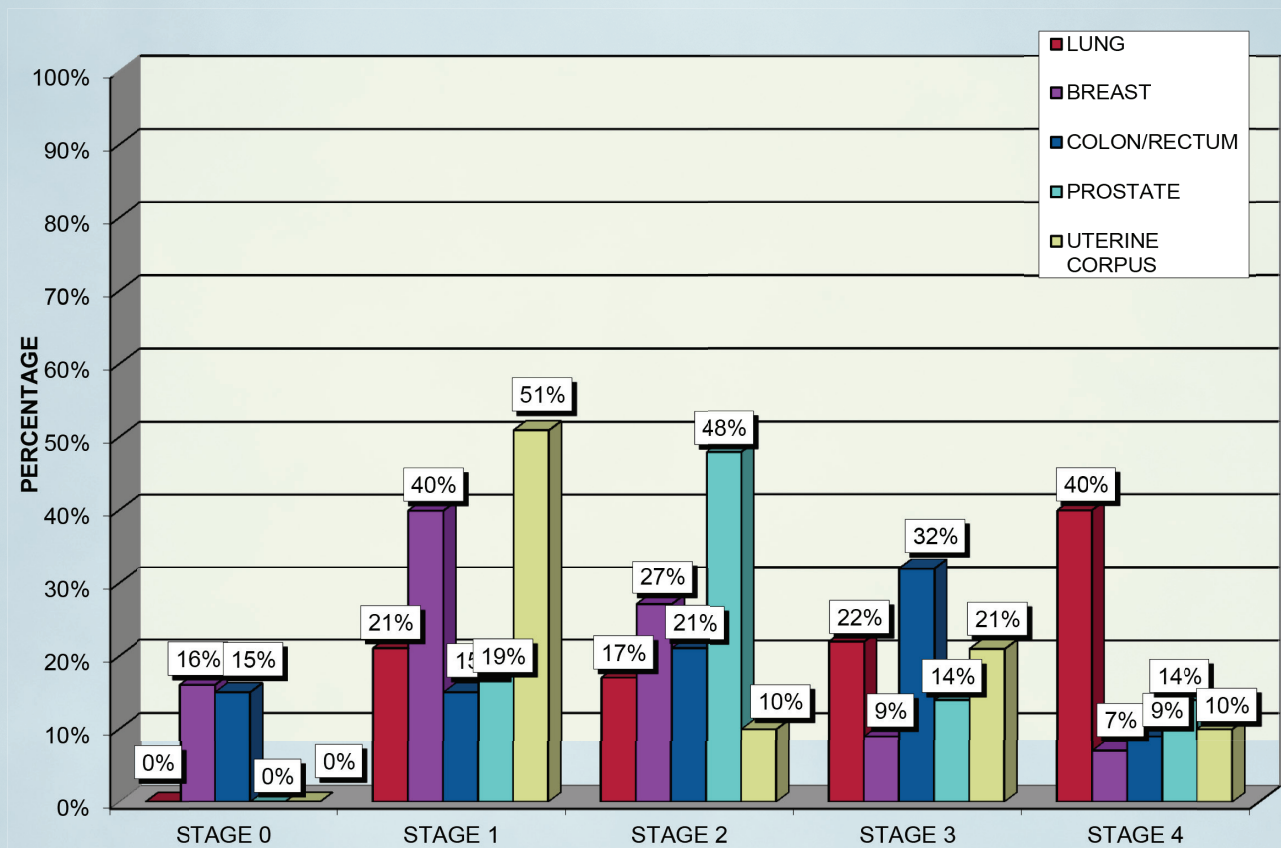
- Endoscopy Center with 4 state-of-the-art endoscopy suites
- Outpatient Surgery Center waiting area with consultation and conference space
- PET CT scanner
- Radiation Oncology Center offering Stereotactic Radiotherapy (brain and body), High Dose Rate Brachytherapy, Volume Modulated Arc Therapy (VMAT), Intensity Modulated Radiotherapy (IMRT) and 3D Radiotherapy treatment options
- Infusion Center with 17 bays
- Physician Offices
 - ♦ Oncology
 - ♦ Gastroenterology
- Pharmacy
- Lab
- Women's Center offering breast imaging, biopsy services, lymphedema services, bone density scans, and screening ultrasound examinations.
- Nurse Navigator
- Retail space including massage therapy and specialized products
- Classroom and conference room space

Encounters at the Cancer Center will be with specialists, who are board certified in their fields, and highly trained, experienced staff, who will accompany patients through their experience.

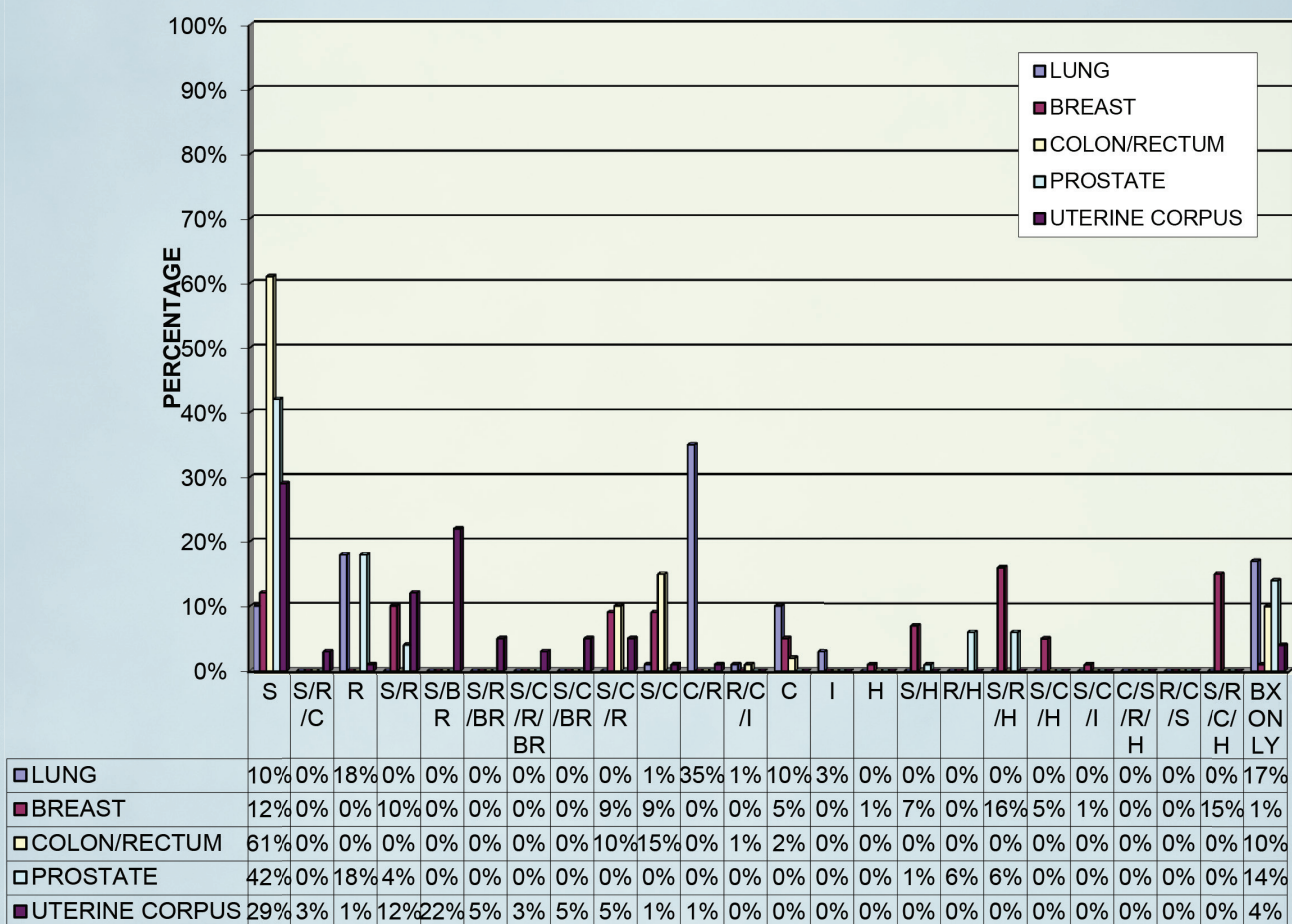
2016 FRANCISCAN HEALTH DISTRIBUTION TABLE

PRIMARY SITE*	Combined Locations					Hammond					Dyer				
	Total	A	NA	M	F	Total	A	NA	M	F	Total	A	NA	M	F
ALL CASES	669	590	79	273	396	229	190	39	118	111	440	400	40	155	285
Oral Cavity	9	7	2	5	4	3	2	1	2	1	6	5	1	3	3
Lip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tongue	3	2	1	1	2	0	0	0	0	0	3	2	1	1	2
Oropharynx	1	1	0	0	1	1	1	0	0	1	0	0	0	0	0
Hypopharynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	5	4	1	4	1	2	1	1	2	0	3	3	0	2	1
Digestive System	99	94	5	62	37	47	43	4	30	17	52	51	1	32	20
Esophagus	10	10	6	9	1	4	4	0	3	1	6	6	0	6	0
Stomach	8	6	2	4	4	3	1	2	2	1	5	5	0	2	3
Colon	48	47	1	26	22	19	19	0	10	9	29	28	1	16	13
Rectum	11	10	1	7	4	7	6	1	4	3	4	4	0	3	1
Anus/Anal Canal	3	3	0	2	1	0	0	0	0	0	3	3	0	2	1
Liver	6	5	1	4	2	6	5	1	4	2	0	0	0	0	0
Pancreas	9	9	0	6	3	6	6	0	5	1	3	3	0	1	2
Other	4	4	0	4	0	2	2	0	2	0	2	2	0	2	0
Respiratory System	97	83	14	50	47	65	55	10	35	30	32	28	4	15	17
Nasal/Sinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Larynx	5	4	1	4	1	5	4	1	4	1	0	0	0	0	0
Lung/Bronchus	93	80	13	47	46	60	51	9	31	29	33	29	4	16	17
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blood/Bone Marrow	31	29	2	14	17	18	18	0	8	10	13	11	2	6	7
Leukemia	15	13	2	7	8	5	5	0	3	2	10	8	2	4	6
Multiple Myeloma	7	7	0	2	5	6	6	0	2	4	1	1	0	0	1
Other	9	9	0	5	4	7	7	0	3	4	2	2	0	2	0
Bone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Connect/Soft Tissue	9	6	3	5	4	2	1	1	1	1	7	5	2	4	3
Skin	7	3	4	5	2	2	0	2	1	1	5	3	2	4	1
Melanoma	6	2	4	4	2	2	0	2	1	1	4	2	2	3	1
Other	1	1	0	1	0	0	0	0	0	0	1	1	0	1	0
Breast	112	107	5	1	111	16	13	3	0	16	96	94	2	1	95
Female Genital	123	112	11	0	123	16	14	2	0	16	107	98	9	0	107
Cervix Uteri	19	7	4	0	19	3	3	0	0	3	16	12	4	0	16
Corpus Uteri	78	73	5	0	78	10	8	2	0	10	68	65	3	0	68
Ovary	12	11	1	0	12	1	1	0	0	1	11	10	1	0	11
Vulva	11	10	1	0	11	1	1	0	0	1	10	9	1	0	10
Other	3	3	0	0	3	1	1	0	0	1	2	2	0	0	2
Male Genital	74	55	19	74	0	22	12	10	22	0	52	43	9	52	0
Prostate	68	50	18	68	0	19	9	10	19	0	49	41	8	49	0
Testis	5	4	1	5	0	2	2	0	2	0	3	2	1	3	0
Other	1	1	0	1	0	1	1	0	1	0	0	0	0	0	0
Urinary System	40	34	6	27	13	8	6	2	5	3	32	28	4	22	10
Bladder	20	18	2	16	4	3	3	0	2	1	17	15	2	14	3
Kidney/Renal	20	17	3	10	10	5	3	2	3	2	15	14	1	7	8
Other	1	0	1	1	0	0	0	0	0	0	1	0	1	1	0
Brain & CNS	26	24	2	11	15	13	12	1	5	8	13	12	1	6	7
Brain (Benign)	1	1	0	1	0	0	0	0	0	0	1	1	0	1	0
Brain (Malignant)	8	7	1	5	3	1	1	0	1	0	7	6	1	4	3
Other	17	16	1	5	12	12	11	1	4	8	5	5	0	1	4
Endocrine	11	10	1	4	7	4	4	0	3	1	7	6	1	1	6
Thyroid	10	9	1	4	6	4	4	0	3	1	6	5	1	1	5
Other	1	1	0	0	1	0	0	0	0	0	1	1	0	0	1
Lymphatic System	20	15	5	12	8	8	5	3	5	3	12	10	2	7	5
Hodgkin's Disease	1	1	0	1	0	0	0	0	0	0	1	1	0	1	0
Non-Hodgkin's	19	14	5	11	8	8	5	3	5	3	11	9	2	6	5
Unknown Primary	5	5	0	2	3	2	2	0	1	1	3	3	0	1	2
Other/III-Defined	4	4	0	0	4	3	3	0	0	3	1	1	0	0	1

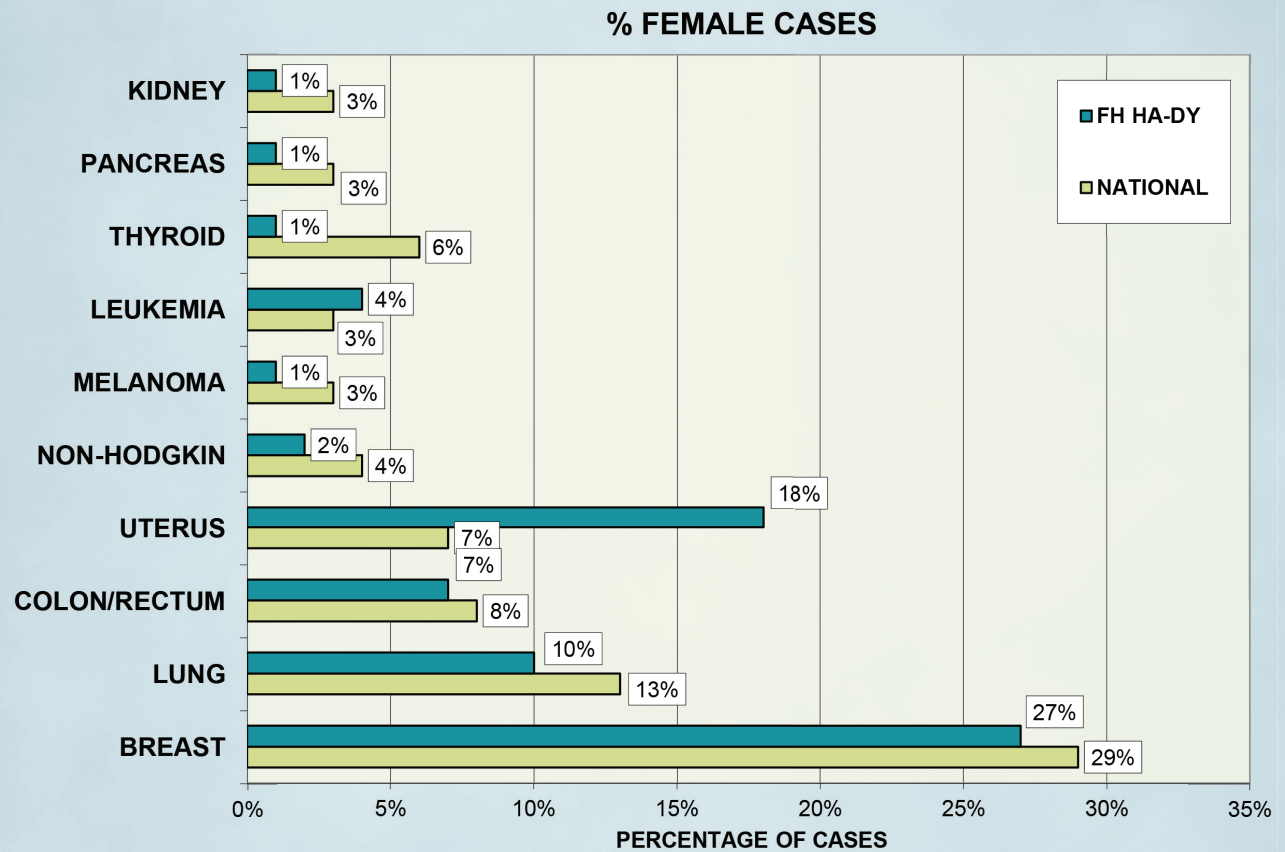
2016 FRANCISCAN HEALTH TOP FIVE CANCER CASES BY AJCC STAGE GROUPS



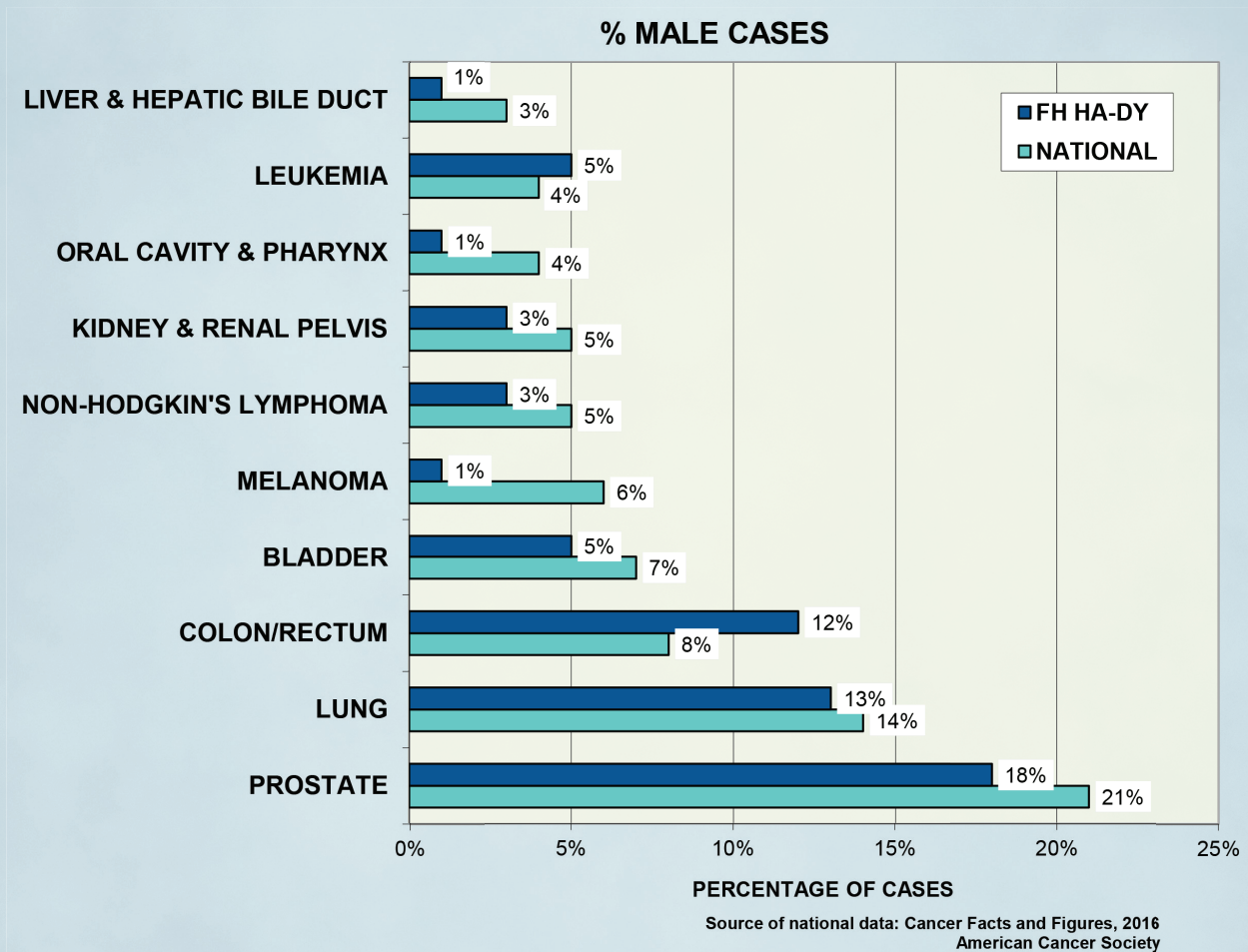
TOP FIVE ANALYTIC CANCER CASES BY TREATMENT



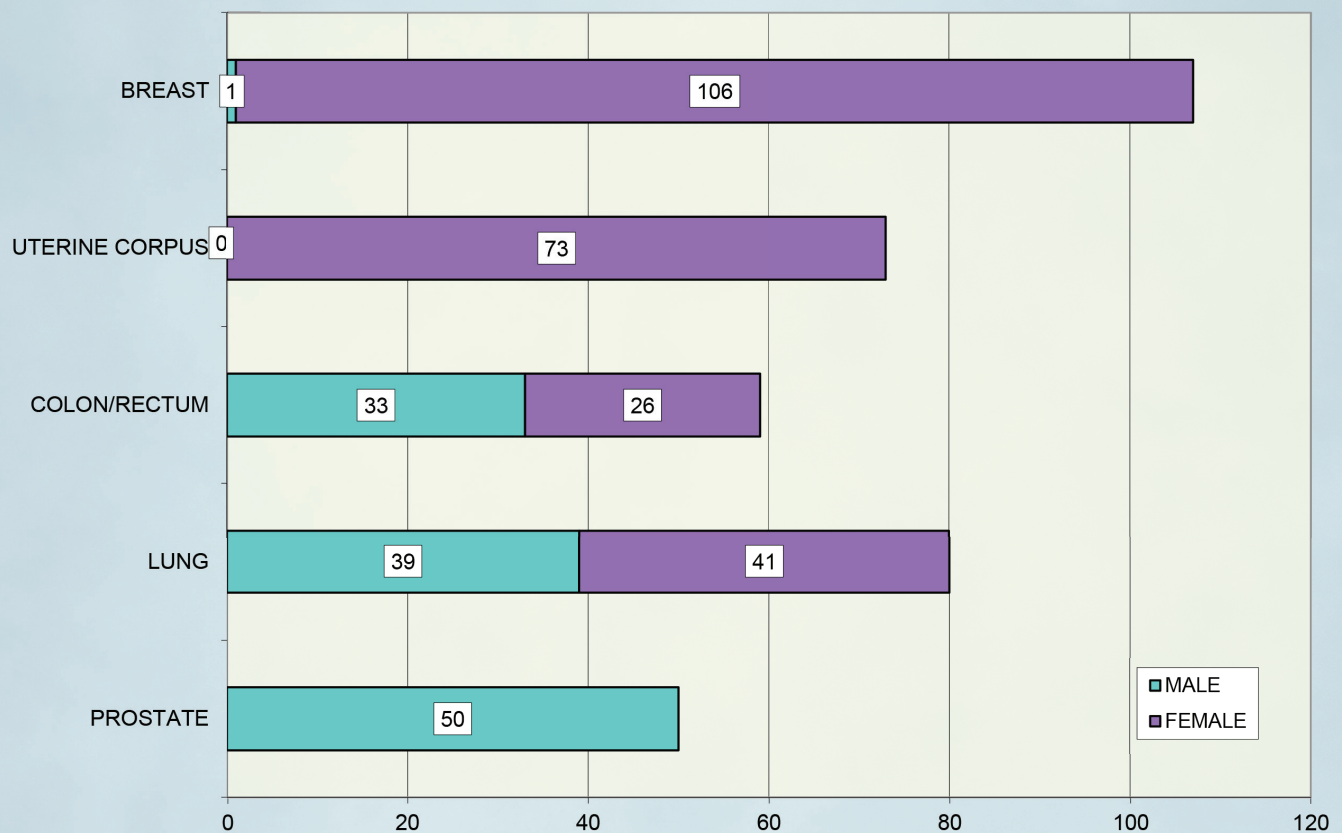
COMPARISON BY SITE AND GENDER: 2016 FRANCISCAN HEALTH HAMMOND-DYER AND NATIONAL DATA



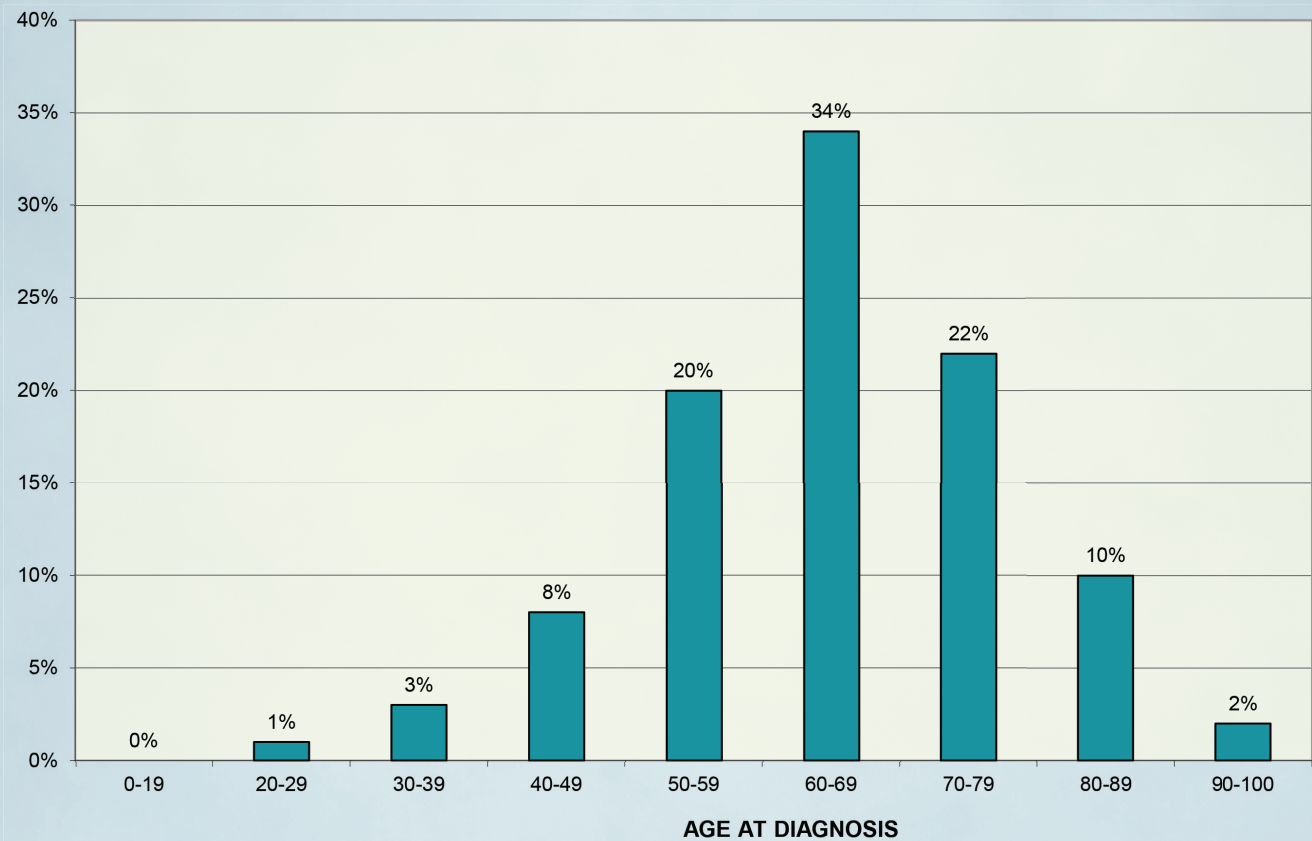
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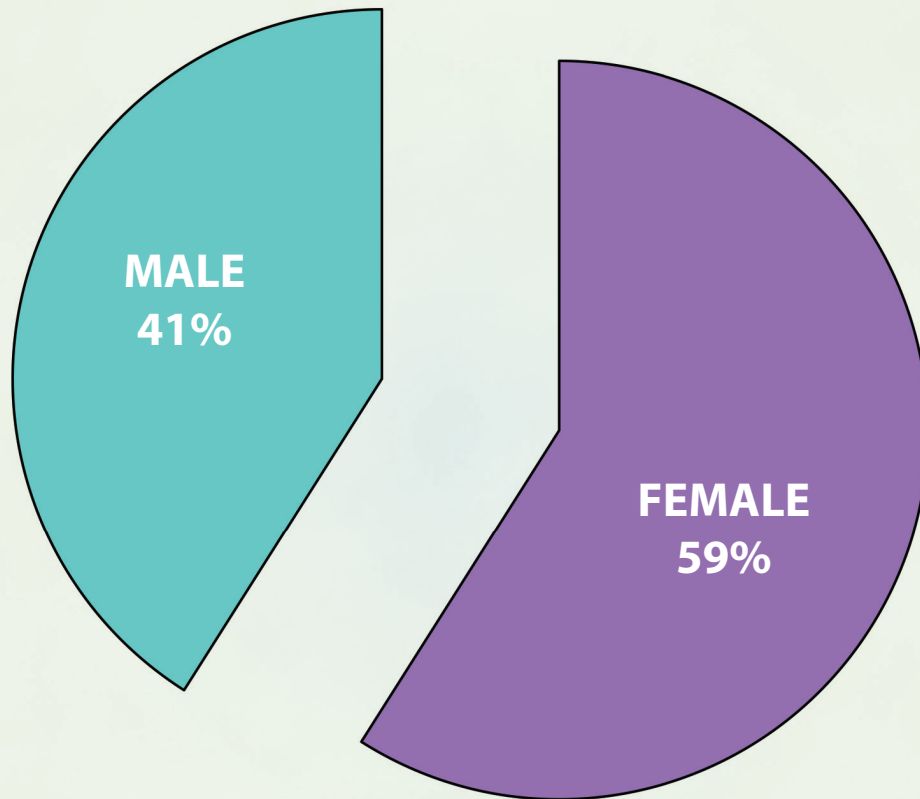
MAJOR SITES BY GENDER: BOTH CAMPUSES (2016 ANALYTIC CASES)



AGE AT DIAGNOSIS: ALL CASES



BOTH CAMPUSES DISTRIBUTION BY GENDER: ANALYTIC CASES



*EXCLUDES CA INSITU CERVIX, BASAL AND SQUAMOUS SKIN CANCERS

2016 REGISTRY FOLLOW-UP CALCULATIONS

CoC Reference Year Follow-Up Rate*	90.10%
Last Five Years Follow-Up Rate**	90.47 %

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 2016

Robert Prock, MD (Chairperson) Radiation Oncology

Dougal D'Souza, MD (Cancer Liaison Physician) Surgery

Luke Miller, MD Radiation Oncology

Reshma Ariga, MD Pathology

Tiffany Robinson, MD Radiology

Tracie Franovich, RN, MHA, MBA Administration

Cindy Duran RT (R) (T) Director, Oncology Center & Breast Center

Pam Jones, 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

Robin Cohen, MD Rehabilitation representative

Dan Kirchoff, PharmD Pharmacy

Teresa Van Horssen, RN Breast Nurse Navigator

Sue Hallenbeck, RHIA 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