



ST. JOHN MEDICAL CENTER
CANCER PROGRAM
2011 ANNUAL REPORT

 St. John

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REPORT FROM THE DIRECTOR

The pace of new advances in the treatment and cure of cancer is staggering. New chemotherapeutic agents are being produced at a rapid pace, as well as remarkable therapeutic radiation delivery systems such as our CyberKnife. The LaFortune Cancer Center at St. John Medical Center is positioned to fully participate in these advances in research and technology in our mission to deliver compassionate care and medical excellence.

Support services continue to be an integral component of our program, which includes dedicated social service support, an education resource center, sponsorship of multiple support groups and medical nutritional counseling. The LaFortune Cancer Center is an active participant in numerous community activities that promote public education, screenings, and disease prevention; fundraising and celebration of survivorship.

Clinical research is available through sponsoring institutions, which include the National Cancer Institute, Eastern Cooperative Oncology Group, Radiation Therapy Oncology Group, National Surgical Adjuvant Breast and Bowel Program and the Clinical Trials Support Unit. Eligible patients who choose to participate may have an opportunity to receive cancer treatment that represents the most current science in cancer care.

The Cancer Registry abstracted 1,824 new cases during 2011, growing the database to more than 20,000 cases.

The LaFortune Cancer Center looks forward to the exciting challenges and opportunities in the delivery of cancer care.

Sincerely,

Phil Ames, Director
LaFortune Cancer Center
Radiology Services

REPORT OF CANCER COMMITTEE ACTIVITIES

The St. John Cancer Committee is proud of the role it played in the successful operation of St. John Medical Center in 2011.

In the area of improving the delivery of efficient and competent oncological care to our patients, the pharmacy department implemented a new chemotherapy competency requirement program, which included a dedicated pharmacist assigned to the Oncology Department to help with chemotherapy administration supervision and preparation, and to minimize medication mistakes. Additionally, internal quality improvement processes were implemented and steps taken to minimize patient wait time in the chemotherapy infusion room.

To help with the quality-of-life of our patients undergoing cancer treatment, the rehabilitation department continued to expand and played an active role in the lymphedema program for post mastectomy breast cancer patients.

St. John Medical Center continued its public outreach program to help educate and support patients and their families receiving treatment or who received treatment in the past. The annual Holiday Heart and Hope party was again a great success, with good attendance from past and present patients and much community involvement. St. John also continued to participate actively in other community functions, such as Relay of Life and the Susan G. Komen Race for the Cure. St. John Medical Center also participated in the Pink Ribbon Dinner to honor breast cancer patients and survivors.

The Cancer Center continued to hold weekly Tumor Board conferences. The conferences were well attended by our multidisciplinary team of medical oncologists, radiation oncologist, surgeons, and pathologists.

Patients treated at the Cancer Center continued to have access to the most advanced equipment and specialized care. The medical staff included dedicated medical oncologists, hematologists, a breast surgeon, radiation oncologists, radiologists, neurosurgery oncologists, orthopedic surgeons, gynecologic oncologists, colorectal surgeons, plastic surgeons, and ENT. Patients have access to PET/CT scanners, CyberKnife technology, and robotic urological procedures. Clinical trials through large corporative groups, including NSABP and RTOG, were made available to patients.

Coty Ho, MD



REPORT FROM THE CANCER LIAISON PHYSICIAN

The cancer liaison physician provides a connection between the Commission on Cancer of the American College of Surgeons and the LaFortune Cancer Center of St. John Medical Center. The cancer program at St. John Medical Center underwent a survey last year, and was granted accreditation for another three years. The next survey will be in 2013.

The LaFortune Cancer Center continues to provide assistance with the management of patients suffering from many types of cancer. Patients with both hematologic malignancies and solid tumors are treated at the Cancer Center. Patients have access to a wide variety of different medical subspecialties for treatment of oncological problems. We have a dedicated medical oncology team, as well as radiation oncology, and breast surgical oncology. Our surgical service is further supported by a well-staffed neurosurgery team, with expertise in dealing with primary CNS tumor resection. Our radiation oncology department provides state-of-the-art CyberKnife technology, and our urology staff can provide robotic surgery expertise.

Our programs continue to promote up-to-date medical treatment with support for the whole patient -- mind, body, and spirit. We have dedicated social workers, nutritionists, rehabilitation specialists, physical therapists, and home health nurses assigned to the Cancer Center. The St. John Hospice program, along with our chaplain service, remain active with the care of our terminally ill patients, and provide much support to their families.

The Cancer Center remains active within the community with projects, such as free new wigs for patients with hair loss while undergoing chemotherapy. Another important program for the community is Tulsa Project Woman. This program provides free mammograms, and, if needed, breast biopsies, for the indigent population with financial needs. The Charity Fund makes available financial support to uninsured patients undergoing cancer treatment. The annual Tulsa Komen Race for the Cure and the local Relay for Life raised funds to help support cancer research activities at St. John. Other St. John sponsored activities, such as the Art of Healing, brings together cancer survivors and their families in an annual celebration of their continued health and courage. Our St. John physicians routinely take turns putting together annual symposiums on different topics of cancer to educate and update their colleagues and hospital staff on various new treatments and advances in cancer care.

St. John Medical Center remains a community leader in healthcare and cancer treatment. We were voted again by the greater metropolitan population of Tulsa to be the number one hospital in the area for 2011. A great number of cancer patients throughout northeastern Oklahoma are impacted by the broadreaching and supportive care of our doctors, nurses, and staff. We will continue in our endeavors to provide for medical excellence and compassionate care of the cancer patient.

Respectfully submitted,

Coty Ho, MD
2012 Cancer Liaison Physician

CANCER COMMITTEE

The St. John Cancer Committee is composed of representatives from a variety of medical disciplines and support services involved with the care of cancer patients. The committee met four times in 2011 under the leadership of chairman Nathan Uy, MD.

The committee is concerned with the entire spectrum of care for cancer patients seen at St. John Medical Center. Committee responsibilities include:

- Develop and evaluate annual goals and objectives for the clinical, educational and programmatic activities related to cancer
- Promote a coordinated, multidisciplinary approach to patient management
- Ensure that educational and consultative cancer conferences cover all major sites and related issues
- Ensure that an active supportive care system is in place for patients, families and staff
- Monitor quality management and improvement through completion of quality management studies that focus on quality, access to care and outcomes
- Promote clinical research
- Supervise the cancer registry and ensure accurate and timely abstracting, staging and follow-up reporting
- Perform quality control of registry data
- Encourage data usage and regular reporting by planning and conducting a minimum of two patient care evaluation studies annually; one to include survival data and comparison data, if available
- Ensure that content of the annual report meets requirements
- Publish the annual report on the SJHC MedWeb by November 1 of the following year
- Uphold medical ethical standards

COMMITTEE MEMBERS

Nathan Uy, MD	<i>Committee chairman, Medical Oncology</i>
Laurie Flynn, MD	<i>Cancer liaison physician, Surgeon</i>
Okja Chung, RN	<i>Nursing director, Inpatient Oncology</i>
Polly Robinson, PharmD	<i>Pharmacy</i>
Michael Harvey, MD	<i>Pathology</i>
Jack Mocnik Jr., MD	<i>Radiology</i>
Phil Ames	<i>Administrative director, LaFortune Cancer Center</i>
Julie Kinzie, LCSW	<i>Social Services</i>
Lori Varnell, RN	<i>Cancer Research</i>
Carol A. Lane, CTR	<i>Cancer Registry</i>
Fred Willison, MD	<i>Radiation Oncology</i>
John L. Eckenrode, MD	<i>Medical Oncology</i>
Kathy Smarinsky	<i>Vice president, St. John Medical Center</i>
Dedee Boss	<i>Medical Staff Services</i>
Laurie Flynn, MD	<i>Surgery</i>
Mark Genesen, MD	<i>Gynecologic Oncology</i>
Joyce George, RN	<i>Director, Medical Records and Admissions</i>
JoAnn Rushenberg, RN	<i>Quality Assurance</i>
Brenda Frank, RN	<i>Hospice</i>
Jodi Hudson	<i>ACS Representative</i>
Kelly Berry, MPT	<i>Rehab Services</i>

CANCER REGISTRY

The St. John Cancer Registry maintains a complete database of all cancer cases diagnosed and/or treated at St. John. More than 41,276 cases have been accessioned since the registry’s inception in 1967. In addition, 9,250 non-analytic cases and 1,118 cases of cervical carcinoma in situ have been registered. The registry changed its reference date from 1967 to 2000 in January, making the database more manageable at 20,000+ cases. Three full-time cancer registrars and one follow-up secretary are responsible for collecting and maintaining complete and accurate data, including annual follow-up information for all cancer patients diagnosed or treated at St. John.

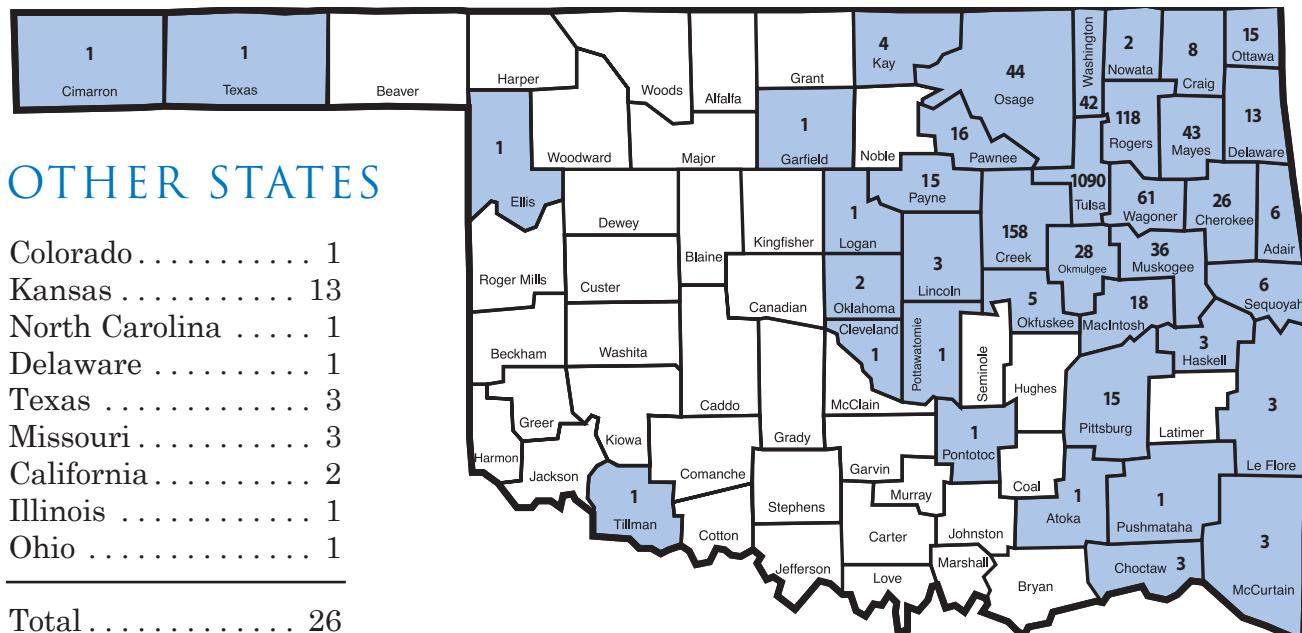
- Abstracted the required 90 percent within the required six-month timeframe.
- Registered 29 cases of cervical carcinoma in situ and 1,500 NRs.
- Completed follow-up on 90 percent of the 11,104 cases under follow-up.
- Reviewed and re-abstracted 10 percent of 2011’s accessioned cases
- Prepared for weekly Cancer Conference presentation
- Prepared for Cancer Committee
- Prepared the annual report
- Participated in the Tulsa Community College student program
- Responded to nine requests for studies or information from various departments, physicians and administrators

During 2011, the Cancer Registrars:

- Abstracted 1,824 cases into the database

DISTRIBUTION OF ANALYTIC CASES BY COUNTIES

There were 1,824 analytic cases diagnosed at St. John in 2011. Of these, 1,798 were from Oklahoma and 26 were from other states. The numbers of cases for Oklahoma counties are shown on the map below.



FREQUENCY COUNTS FOR PRIMARY SITE 2011

Code		Frequency	Percent	Cumm. Freq	Percent
LIP	0	1	0.1	1	0.1
LIP OTH	0	2	0.1	3	0.2
TONGUE	1	11	0.6	14	0.8
TONGUE OTH	2	4	0.2	18	1.0
FL. MOUTH	4	2	0.1	20	1.1
PALATE	5	1	0.1	21	1.2
PAROTID GL	7	2	0.1	23	1.3
TONSIL	9	6	0.3	29	1.6
OROPHARYNX	10	1	0.1	30	1.6
NASOPHARYNX	11	1	0.1	31	1.7
PYRIFORM	12	1	0.1	32	1.8
HYPOPHARYNX	13	4	0.2	36	2.0
ESOPHAGUS	15	9	0.5	45	2.5
STOMACH	16	22	1.2	67	3.7
SM INTEST	17	8	0.4	75	4.1
COLON	18	97	5.3	172	9.4
RECTOSIGM	19	15	0.8	187	10.2
RECTUM	20	33	1.8	220	12.1
ANUS	21	6	0.3	226	12.4
LIVER	22	18	1.0	244	13.4
GALLBLADDER	23	3	0.2	247	13.5
BILIARY TR.	24	3	0.2	250	13.7
PANCREAS	25	45	2.5	295	16.2
DIGESTIVE	26	2	0.1	297	16.3
NASAL CAV	30	2	0.1	299	16.4
SINUS	31	2	0.1	301	16.5
LARYNX	32	17	0.9	318	17.4
LUNG	34	300	16.4	618	33.9
PLEURA-MED	38	2	0.1	620	34.0
BONE	41	5	0.3	625	34.2
BLOOD SYS	42	55	3.0	680	37.3
SKIN	44	84	4.6	764	41.9
NERVES	47	1	0.1	765	41.9
PERITONEUM	48	4	0.2	769	42.1
CONNECTIVE	49	13	0.7	782	42.8
BREAST	50	371	20.3	1153	63.2
VULVA	51	5	0.3	1158	63.5
VAGINA	52	3	0.2	1161	63.6
CERV UTERI	53	17	0.9	1178	64.5
CORP UTERI	54	65	3.6	1243	68.1
UTERUS	55	2	0.1	1245	68.2
OVARY	56	23	1.3	1268	69.5
FEM GENIT	57	1	0.1	1269	69.5
PENIS	60	2	0.1	1271	69.6
PROSTATE	61	119	6.5	1390	76.2

Code		Frequency	Percent	Cumm. Freq	Percent
TESTIS	62	9	0.5	1399	76.7
KIDNEY	64	93	5.1	1492	81.8
REN PELVIS	65	4	0.2	1496	82.0
URETER	66	5	0.3	1501	82.2
BLADDER	67	61	3.3	1562	85.6
URINARY	68	3	0.2	1565	85.8
EYE	69	5	0.3	1570	86.0
MENINGES	70	39	2.1	1609	88.2
BRAIN	71	49	2.7	1658	90.8
CENT NERVE	72	20	1.1	1678	91.9
THYROID	73	39	2.1	1717	94.1
ENDOCRINE	75	15	0.8	1732	94.9
OTHER	76	1	0.1	1733	95.0
LYMPH NODE	77	58	3.2	1791	98.1
UNKNOWN	80	34	1.9	1825	100.0
TOTAL		1825	100.0	1825	100.0

Mean = 47.23

Mode Freq = 371

Std. Dev = 18.15

Standard Error of Mean = 0.42

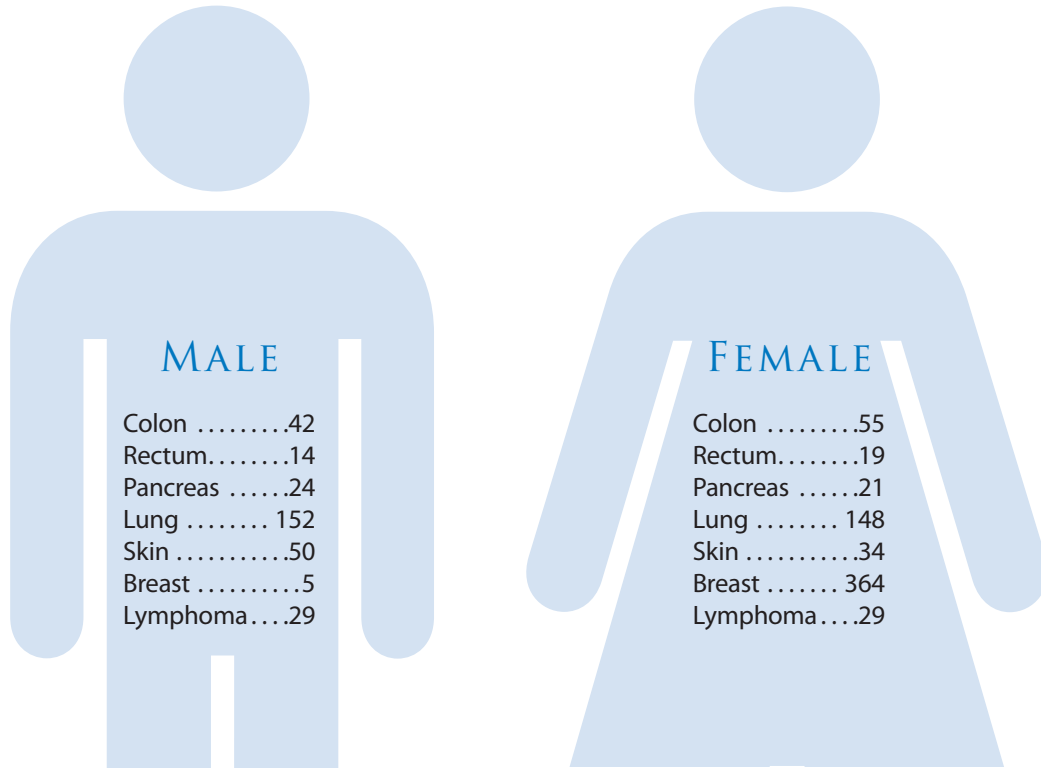
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REPORT OF CANCER CENSUS AT ST. JOHN MEDICAL CENTER FOR 2011

During 2011, St. John Medical Center continued to be busy with the growth of its cancer care service. LaFortune Cancer Center continued to treat a wide variety of cancer diagnoses. The bulk of the cases comprised of the following four major types of cancer: lung, breast, colorectal, and lymphoma. There were 300 cases of newly diagnosed lung cancer in 2011. There were 370 cases of breast cancer. There were 97 cases of colorectal cancer, and 79 cases of lymphoma diagnosed at the hospital in 2011.

The total of newly diagnosed cancers in Oklahoma continues to increase each year. In 2011, the state had 18,980 new cases.

PRIMARY SITE FOR 2011



CANCER CONFERENCE

The goal of the St. John Cancer Conference is to improve the care of the community's cancer patients through the exchange of information. The weekly conference is open to all physicians, residents, medical students and nursing personnel. The third Wednesday of every month is dedicated to breast cases.

2011 CANCER CONFERENCE SUMMARY

There were 50 conferences for 2011. There were a total of 182 cases presented for prospective treatment.

BREAST CENTER

The St. John Breast Center was the first, fully digital comprehensive breast center in northeastern Oklahoma and provides state-of-the-art digital mammography services, minimally invasive biopsies, ultrasound of the breast, breast MRI, free breast self examination (BSE) training, educational materials, and help with access to medical specialists for consultative services. St. John Breast Center in St. John Medical Center is the only breast center in northeastern Oklahoma designated a Breast Imaging Center of Excellence by the American College of Radiology and is ACR accredited. Mammography services are offered at St. John Outpatient Radiology at 81st Street and Memorial Drive in Tulsa, as well as St. John Sapulpa, St. John Owasso, and St. John Broken Arrow. Statistics on the number of cancers found are documented and can be obtained from the Breast Center.



CANCER PROGRAM

Diagnostic

Radiology. State-of-the-art equipment and computers enable a highly trained staff to offer screening and diagnostic procedures for all types of cancer. Digital radiographic

evaluation, nuclear medicine, mammography, CT, MRI, ultrasound, interventional radiology and PET are available.

Pathology. The department of pathology provides a complete range of rapid, reliable, state-of-the-art testing services to diagnose cancer, determine prognostic factors and monitor the results of treatment. The department has 21 board-certified pathologists and an immunologist experienced in the diagnosis of all forms of cancer, with specific areas of interest and expertise in the diagnosis of cancer of the breast, skin and lymph nodes. Physicians maintain subspecialty board certifications in hematopathology, cytopathology, medical microbiology, dermatopathology, chemical pathology, medical immunology and toxicology. In addition, there is expertise in fine needle and bone marrow aspiration. Pathology consultations are available 24/7.

Treatment Modalities

Medical Oncology. Medical oncology is a subspecialty of internal medicine in which physicians receive special training in the diagnosis and treatment of cancer. At St. John Medical Center, treatment may be given in the outpatient facilities of the LaFortune Cancer Center, at St. John's Outpatient Hematology Services, or at a designated inpatient oncology unit. In all locations, certified oncology nurses deliver cancer therapy with great attention to patient comfort and education.

Radiation Oncology. Indications for the use of radiation therapy in the treatment of disease processes continue to expand, both as a single modality or in a combined format. Methods of treatment include conventional external beam radiation therapy, IMRT, superficial radiation therapy, CyberKnife robotic radiosurgery, brachytherapy, TomoTherapy and radiolabeled monoclonal antibodies. Two board certified radiation oncologists provide direction and oversight of these complex treatment processes.

Respiratory Therapy. Sputum inductions for cytology and a variety of pulmonary function studies, including spirometry and diffusion capacity, are used to evaluate patients. Treatment includes such modalities as supplemental oxygen, humidity therapy, IPPB, and hand-held nebulization of bronchodilators. Incentive spirometry and chest physiotherapy are used for treatment of pneumonia, atelectasis and pleural effusion.

SUPPORT PROGRAMS

Cancer Registry. The Cancer Registry monitors all types of cancers diagnosed and/or treated at St. John. More than 20,000 cases have been registered since the reference date of 2000. It is the oldest approved program in Oklahoma. The registry uses Rocky Mountain Cancer Data Systems, a software program containing all data points required by the American College of Surgeons and the Surveillance, Epidemiology and End Results (SEER) program. Three full-time cancer registrars (abstractors), and one full-time follow-up secretary are responsible for collecting and maintaining complete and accurate data for all cancer patients registered at St. John. Nearly 14,000 patients are followed yearly at St. John.

Cancer Research Department.

The LaFortune Cancer Center promotes clinical research trials to enhance survival rates of cancer participants by engaging in prevention, screening, early detection, diagnostic, treatment and quality of life as well as supportive care trials. The LaFortune Cancer center participates in the National Institutes of Health, and National Cancer Institute clinical research trials by enrolling participants in clinical trials through the Cancer Trials Support Unit. Active open clinical trials at the LaFortune Cancer Center include Eastern Cooperative Oncology Group (ECOG), National Surgical Adjuvant Breast and Bowel Project (NSABP), North

Central Cancer Treatment Group (NCCTG), Cancer and Leukemia Group B (CALGB), and Radiation Therapy Oncology Group (RTOG), affording access via the Main Cooperative Groups through the Cancer Trials Support Unit affiliation.

The LaFortune Cancer center also provides active referrals for participants to participate in clinical trials through the MD Anderson Clinical Research Network. The large network afforded to participants through the LaFortune Cancer center provides ease of access for cancer patients to seek advance treatment options that may be available through clinical research participation. The LaFortune Cancer Center provides community outreach and education, providing opportunities for cancer patients to engage in the National Cancer Institute Clinical Trials Education Series during monthly support groups. Education booklets and brochures are also distributed throughout the St. John Health System in medical oncologist offices, hematology services, and in patient wards within St. John Medical Center.

Enterostomal Therapy. An enterostomal therapy nurse (ET nurse) provides services for people who have undergone surgery or who are anticipating surgery resulting in an ostomy. The ET nurse also assists inpatients who have problems with surgical drains, fistulae, or draining wounds. Outpatients are seen depending on the inpatient census of the ET nurse; however, phone consults with the patient or the patient's home health nurse are always available.

Home Health Care. Home Health Care at St. John Medical Center provides health services to promote, maintain and restore health to individuals and families in their homes. Home Health Care can also increase the level of patient independence while reducing the effects of disability and illness.



Hospice. St. John Hospice, one of the oldest hospices in Tulsa, provides expert, loving care to people with a limited life expectancy. The patient, family members and physicians work together with the St. John Hospice inter-disciplinary team to establish a plan for care that enhances the patient's quality of life. The hospice team of professionals and volunteers support that plan by responding to the unique needs of the terminally ill and their families.

Nutritional Counseling. A clinical dietitian assists oncology patients in making the correct dietary choices. Nutrition screenings by dietitians help manage optimal nutrition.

Pastoral Care. St. John Medical Center believes that the spiritual aspect plays a vital role in healing and a patient's progress. Priests, Sisters, ministers and pastoral care volunteer visitors provide spiritual encouragement and help for patients, families, and staff. A Catholic priest is on call 24 hours a day, seven days a week. The pastoral care department networks with the patient's ministers, rabbis or other spiritual counselors.

Pharmacy. The pharmacy department offers a wide range of services to support

the cancer program. These include providing and maintaining current information on chemotherapeutic and related drug products; storage, preparation and dispensing of these products; and storage and distribution of investigational chemotherapy drugs. The pharmacist plays a key role on the team, managing the treatment of cancer patients.

Great American Smokeout is a program of the American Cancer Society in which supportive services and the St. John Siegfried Health Club participate each year.

Prevention, intervention and maintenance. (Healthy Lifestyles). The Healthy Lifestyles programs at St. John are designed to help individuals achieve their optimal level of health. A dedicated team of physicians, nurses, dietitians, exercise physiologists and clinical psychologists provide the congenial atmosphere needed for changing unhealthy lifestyle habits into healthy ones. Weight control programs are offered along with a smoking cessation program.

Rehabilitation Services. St. John Rehabilitation Services, accredited by the Joint Commission, offers the most complete line of rehabilitation programs available in northeastern Oklahoma. Inpatient rehabilitation provides services including physiatry, physical therapy, occupational therapy, rehabilitation nursing, rehabilitation social worker, speech-language pathology and therapeutic recreation.

Outpatient rehabilitation provides physical, occupational and speech therapy services to a varied caseload, including oncology patients. Outpatient rehabilitation currently has three physical therapists certified in manual lymphatic drainage and complete decongestive therapy for patients with lymphedema. Currently, 25 to 30 new patients are admitted per month for pre/

post-breast cancer surgery, lymphedema prevention training and lymphedema management.

Resource Center. The LaFortune Cancer Resource Center provides comprehensive educational material for patients and families. The center offers free information from the National Cancer Institute, the American Cancer Society and the Leukemia Society of America, as well as other sources. Also available at the center are new wigs, hats, and turbans for loan to chemotherapy patients.

Supportive Services. The LaFortune Cancer Center's Supportive Services social worker meets with patients and families to help evaluate needs and lend assistance when necessary. The five most frequently identified areas of need are: financial counseling, transportation, family relations, medications and lodging. Free educational and support programs are available to adult cancer patients, their families and friends.

Reach to Recovery is a program of the American Cancer Society for mastectomy patients.

Look Good Feel Better is a monthly program featuring a trained cosmetologist to provide skincare advice, as well as tips for wearing wigs and scarves. This program is co-sponsored by the American Cancer Society, National Cosmetology Association, the CTFA Foundation and the LaFortune Cancer Center.

Us Too is a patient-led support group for men with prostate cancer, their spouses and guests.

Myeloma Support Group is a monthly support group for anyone affected by myeloma. The Myeloma Support Group is co-sponsored by the Leukemia and Lymphoma Society.

Celebrating the Art of Healing is a community event sponsored by the Leukemia & Lymphoma Society, Monte Cassino, Saint Francis Hospice, Grace Hospice and St. John Medical Center. This annual community event provides professional speakers and breakout sessions to provide local cancer survivors with a day of learning, healing and fun.



The staff of the Cancer Registry extends its sincere appreciation for the support of the Cancer Committee, Medical Records, Pathology, Radiology and the St. John medical staff for its cooperation and assistance.



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