

*Life
& Hope*
Cancer Program Annual Report *2009*

Cancer Treatment Center for Southern Kentucky
and Barren River Regional Cancer Center



Message *from the* Chairperson



Another year has passed for us with The Medical Center Cancer Committee. We have successfully recertified with the American College of Surgeons as a Community Hospital

Comprehensive Cancer Program. This reflects the skill and dedication of many people involved in caring for our friends and neighbors with cancer. We aim to be the premier provider for cancer care in our area and are the most comprehensive. This recertification confirms the continual improvement of our program and the quality of care given to each patient.

Beyond treating cancer, we continue our efforts for cancer prevention. A variety of services is offered through The Medical Center Health and Wellness Center at Greenwood Mall – from colon, breast and prostate screenings to smoking cessation classes. Additionally, educational presentations, written materials and support groups are offered to help not only those recovering from the disease, but their family and caregivers as well.

On behalf of The Medical Center Cancer Committee, I am proud to present this report on our efforts over the last year. This helps to highlight the significance of the disease of cancer in our area.

Tage Haase, MD

Board Certification in General Surgery
Committee Chairperson

5 Year Survival Rates

The Medical Center Cancer Registry Data

	1994–1997 Non-Hodgkin Lymphoma	1998–2002 Non-Hodgkin Lymphoma	1994–1997 Hodgkin Lymphoma	1998–2002 Hodgkin Lymphoma
Stage I	66.7% (6 cases)	70.7% (35 cases)	100% (4 cases)	100% (9 cases)
Stage II	80% (6 cases)	65.4% (19 cases)	50% (2 cases)	91.7% (12 cases)
Stage III	100% (3 cases)	55.6% (9 cases)	(0 cases)	100% (2 cases)
Stage IV	54.4% (16 cases)	12.1% (18 cases)	(0 cases)	(0 cases)

National Cancer Data Base (Comprehensive Community Cancer Centers Category)

	1994–1997 Non-Hodgkin Lymphoma	1998–2002 Non-Hodgkin Lymphoma	1994–1997 Hodgkin Lymphoma	1998–2002 Hodgkin Lymphoma
Stage I	64.1%	69.9%	84.1%	86.6%
Stage II	52.1%	61.1%	85.9%	88.7%
Stage III	44.3%	53.4%	77.7%	73.7%
Stage IV	38.7%	47.1%	64.4%	65.4%

2009 Cancer Registry Report

The Cancer Registry is a required and vital component of the Cancer Program at The Medical Center. It provides data management services to comply with mandatory state regulations as well as data needs for clinicians, administrators, and physicians. The registry also provides data to national level cancer surveillance organizations for incidence measurement. Since 1988, data has been collected at The Medical Center for 14,627 cases with 862 new cases added in 2009.

The Cancer Registry plays an active role in the Commission on Cancer (COC) approved cancer program at The Medical Center.

Registry staff serve on the Cancer Committee, which is a multidisciplinary team responsible for assuring quality of care and making improvements in care given to all cancer patients. Registrars coordinate quarterly Cancer Committee meetings, keep appropriate documentation, and ensure that the Cancer Committee meets and/or exceeds all COC Standards.

Weekly Tumor Conferences are also coordinated through the Cancer Registry office. Recently diagnosed cancer cases are discussed with Radiation Oncology, Medical Oncology, Surgery, Radiology, Pathology, and other medical specialties. Tumor Conferences

provide forums that are educational. Attendees offer advice on treatment or further diagnostic studies after determining the stage of the disease. Treatment recommendations utilizing national treatment guidelines are also reviewed.

The Registry is staffed by two Certified Tumor Registrars (CTR) and has added a third full-time cancer registrar. Their responsibilities include casefinding, data collection on all reportable malignancies, specified hematopoietic diseases, and benign brain tumors that are diagnosed and/or treated at The Medical Center (analytic cases). In addition to collecting data on newly diagnosed patients, the Registry performs annual lifetime follow-up on all patients. All information obtained by the Registry is submitted continually to the Kentucky Cancer Registry through a web-based program (CPDMS – Cancer Patient Data Management System) and annually to the National Cancer Data Base (NCDB). Data in the registry is available to medical and administrative staff to use for audits, special studies, and research. For more information regarding Cancer Registry or related data, call **(270) 745-1288**, **(270) 796-5104**, or **(270) 745-1492**.

Jana Thornton, RHIT, CTR
Paula Alford, RHIT, CTR
Laura Cook, RHIT

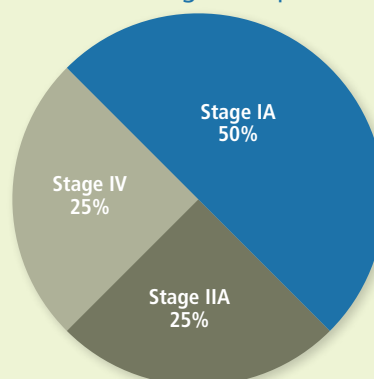
Top Five Cancer Sites 2009

(Comparing The Medical Center top five sites with Kentucky and National Data)

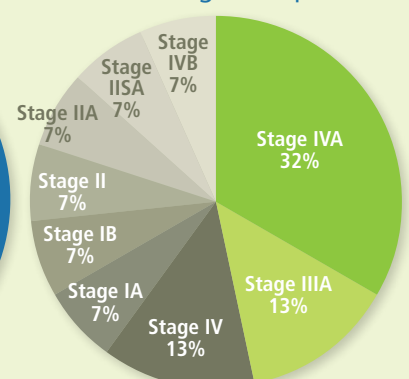
Site	The Medical Center	Kentucky	National Data
Trachea, bronchus, lung NSC	25.98%	17.57%	15%
Breast, both male & female	17.63%	14.34%	13%
Prostate	9.51%	10.48%	13%
Colon	5.92%	7.26%	7.50%
Rectum/Anus	5.10%	3.23%	3.10%

CPDMS Analytic Cases

Hodgkin Lymphoma
Best Stage Group



Non-Hodgkin Lymphoma
Best Stage Group



Lymphoma Update



Lymphoma

is a malignant proliferation of lymphocytes. They are roughly divided into two broad categories, Hodgkin's and non-Hodgkin's lymphoma.

Hodgkin's lymphoma has a bimodal distribution with the first peak in the 20s and a second smaller peak in the 60s. It is less common than the non-Hodgkin's lymphoma. Hodgkin's lymphoma has a cure rate of up to 80 percent. The high cure rate is attributed to new chemotherapeutic agents.

Non-Hodgkin's lymphoma is the fifth most common malignancy in adults. There are more than 50 different subtypes of non-Hodgkin's lymphoma as classified by the World Health Organization. Diffuse large B-cell lymphoma is the most common type accounting for 30 to 40 percent of adult non-Hodgkin's lymphomas. In 2009, 26 cases of lymphoma were diagnosed at The Medical Center.

The diagnosis and treatment of lymphomas requires a multidisciplinary approach. A primary care physician may recognize the symptoms to include weight loss, lymphadenopathy (abnormal enlargement of the lymph nodes), splenomegaly (abnormal enlargement of the spleen), and fever or chills. Radiographic image studies are utilized for evaluation and staging. These studies may include CT scans and PET scans. A definitive diagnosis requires a surgical biopsy and pathologic interpretation. Following a definitive diagnosis and staging,

therapy can be planned which usually includes chemotherapeutic options and/or radiation therapy.

The Medical Center Cancer Treatment Center has a state-of-the-art radiation oncology department headed by Richard McGahan, M.D., as does the Barren River Regional Cancer Center led by Craig Tyree, M.D. The Medical Center has a team of three oncologists on staff to facilitate efficient therapy. The data in this report compares our treatment versus national data. It also compares survival data with the National Cancer Data Base (NCDB). It demonstrates that our patients' survival is comparable with the NCDB national averages.

Lymphomas, and in particular non-Hodgkin's lymphoma, have increased in incidence since the 1970s. This increase is largely attributed to HIV-related lymphoma and an increase in life expectancy of our population. There are multiple treatment options available and the newer chemotherapeutic agents demonstrate greater efficacy and lower toxicity with more tolerable side effects. Non-Hodgkin's lymphoma, however, is more commonly diagnosed in patients in their late 60s who, therefore, have an increased incidence of comorbid conditions to include diabetes mellitus, hypertension, and coronary artery disease. These conditions complicate the treatment and continue to contribute to making this malignancy a significant cause of death. The treatment of this condition typically requires a multidisciplinary approach to include physicians, technicians, financial and support systems.

Vidya Seshadri, MD

Board Certification in Oncology and Hematology
Committee Member

Cancer Committee Members 2009

Tage Haase, MD General Surgery/Cancer Committee Chair
Juli McCay, MD Pathology/Physician Liaison
Daniel Geis, MD Pathology/Tumor Conference Coordinator
Jim Gaffney, MD Medical Director, Hospice
Cheepuloti Reddy, MD Radiology
Richard McGahan, MD Radiation Oncology
Vidya Seshadri, MD Medical Oncology
Michael Zachek, MD Pulmonology
David Bergamini, MD Urology
Linda Rush, RN Director, Community Wellness
Lisa Rowlett, RD, LD Dietary
Gerri Glenn, RN Director, Quality Resource Management
Tammy Tinsley Representative, American Cancer Society
Chris Desmarais, RN, CPHQ Senior Vice President, Corporate Support Services
Sarah Moore Executive Vice President
Elizabeth Westbrook Representative, Kentucky Cancer Program
Laura Williams, RHIT, CCS Health Information Management
Melinda Joyce, PharmD, FAPhA, FACHE Corporate Director, Pharmacy
Bridget Kilpatrick, BSN, RN, OCN, NE-BC Clinical Manager, Oncology Unit
Elizabeth Moran Social Services
Eddie Scott Director, Radiation Oncology
Marianne Wilson, PT, CLT, MBA Rehabilitation Services
Jana Thornton, RHIT, CTR Cancer Registry
Paula Alford, RHIT, CTR Cancer Registry
Laura Cook, RHIT Cancer Registry
Sandi Feria Director, Marketing
Georgena Brackett, RHIA, LCSW, FACHE, MBA Director, Health Information Management

Case Frequency Report

Site	Total Cases	Percent	Compared to State
Trachea, bronchus, lung-NSC	179	20.77%	14.54%
Breast, female & male	152	17.63%	14.34%
Prostate	82	9.51%	10.48%
Colon	51	5.92%	7.26%
Trachea, bronchus, lung-small	45	5.22%	3.04%
Rectum/Anus	44	5.10%	3.23%
Bladder	30	3.48%	4.04%
Thyroid	27	3.13%	2.24%
Non-Hodgkin's Lymphomas	26	3.02%	3.67%
Malignant melanoma	26	3.02%	6.19%
Kidney	24	2.78%	3.31%
Unknown primary	18	2.09%	1.66%
Larynx	17	1.97%	1.11%
Endometrium (corpus uteri)	13	1.51%	2.25%
Cervix	11	1.28%	0.71%
Esophagus	11	1.28%	0.93%
Stomach	11	1.28%	1.06%
Pancreas	9	1.04%	1.94%
Tongue	8	0.93%	0.65%
Brain	7	0.81%	1.08%
Plasma cell tumors	7	0.81%	0.99%
Myeloid leukemias	7	0.81%	0.87%
Testis	5	0.58%	0.44%
Other urinary organs	4	0.46%	0.49%
Lymphocytic leukemias	4	0.46%	0.93%
Benign/borderline brain, cns	4	0.46%	2.73%
Connective & soft tissue	4	0.46%	0.46%
Hodgkin's	4	0.46%	0.42%
Other female genital organs	3	0.35%	1.33%
Other respiratory	3	0.35%	0.22%
Hypopharynx	3	0.35%	0.16%
Gallbladder	3	0.35%	0.48%
Oropharynx	3	0.35%	0.64%
Bone	2	0.23%	0.14%
Other digestive tract	2	0.23%	0.33%
Other hematopoietic diseases	2	0.23%	0.10%
Liver	2	0.23%	1.01%
Ovary	2	0.23%	1.12%
Floor of mouth	2	0.23%	0.11%
Myeloprolif. & myelodysplas	1	0.12%	1.11%
Salivary glands	1	0.12%	0.21%
Small Intestine	1	0.12%	0.45%
Other endocrine	1	0.12%	0.07%
Buccal mucosa	1	0.12%	0.10%

2009 Cancer Prevention & Education Community Outreach

At The Medical Center, we believe that the fight against cancer begins with empowerment – knowing how to prevent cancer and how to detect it in its early stages. Through a variety of classes, events and screenings, The Medical Center educates Southcentral Kentucky on the importance of cancer prevention and early detection, reaching out to schools, businesses and the community at large.

- **Cooper Clayton Smoking Cessation Classes** are offered every quarter
- **Cancer Support Group** meets monthly
- **American Cancer Society Look Good Feel Better** classes meet monthly
- **Exercise classes** are offered twice weekly
- **Health Fairs for employer groups** are held throughout the year

January

Epsilon Sigma Alpha
Health & Wellness Expo (2,600 attendees)

Cancer prevention information

- Good nutrition
- Exercise information
- Skin cancer prevention/early detection
- Oral cancer screenings
- Colon cancer kits
- Smoke-free Coalition

Grocery Store Tour with Dietitian

February

IGA Pyramid for Food Day

Networking Women

Lung Health Screenings

Grocery Store Tour with Dietitian

March

Bowling Green Junior High School Health Fair

Wellness Wednesday at Briarwood Elementary School

Wellness Wednesday at Natcher Elementary School

WKU Personal Health 100 Nutrition Presentation

Briarwood Family Resource Advisory Board

Morgantown Community Health Fair

Edmonson County Community Health Fair

Foster Grandparents Exercise Demonstration

Reynolds Health Fair

Prevention & Detection of Colon Cancer Class

Eat Smart, Stay Healthy Class

Grocery Store Tour with Dietitian

Promotion of Dress Blue Day for Colon Cancer Awareness

Colon Cancer Awareness Flyer in Wellness Display Boards at worksites

April

Western Kentucky University Employee Health Fair

Barren River Safe Space Nutrition Presentation

Grocery Store Tour with Dietitian

May

Farmer's Market

Lung Health Screenings

DermaScan Screenings

Women & Cancer Prevention/Early Detection

- Greenwood Park Church Ladies Day

Colorectal Cancer Prevention/Early Detection

- Broadway United Methodist Church

June

Stand for Children Day

Morgantown Community Health Fair

Refugee Community Outreach

Barren River Area on Aging

Teen Summer Volunteers

PSA Screenings

July

Edmonson County Back to School Bash

Warren County Back to School Bash

Greenwood High School Color Guard Nutrition Series

Grocery Store Tour with Dietitian

DermaScan Screenings

Baptist Women's Conference

August

Lung Health Screenings

Men's Health Tune Up

Skin Cancer Screenings

Bellwood Health Fair

Colorectal Cancer Occult Blood Screening Kits

Smoke Free Coalition Committee

September

Warren RECC Health Fair

Foster Grandparent's Exercise Demonstration

Women's Health Conference

October

Breast self exam cards

Grocery Store Tour with Dietitian

Loving Springs Baptist Church Health Fair

The Medical Center at Scottsville Community Health Fair

Leadership Bowling Green Health & Human Services Day

The Medical Center 10K Classic Health & Fitness Expo

Breast Cancer Education Community Forum

November

Prostate Cancer Education Community Forum

Colorectal Cancer Education Community Forum

Kentucky Women in Agriculture/Women's Health Presentation



Cancer Treatment Center for Southern Kentucky

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www.TheMedicalCenter.org

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