



MERCY HEALTH PARTNERS

OF SOUTHWEST OHIO CANCER PROGRAM

ANNUAL REPORT AND OUTCOME STUDY ON MELANOMA

2008

2007-2008 CANCER COMMITTEE MERCY/HOSPITAL CLERMONT

Physician Members

Foreogh Jazy, MD Chair – Radiation Oncology
Ila Mehta, MD – Pathology
Michael Rousseau, MD – Urology
Peter Sheng, MD – Medical Oncology
Brian Shiff, MD – General Surgery
Amul Shukla, MD – Internal Medicine
Barry Scott Stevens, MD – Diagnostic Radiology

Non-Physician Members

Laura Mackzum/Julie Behan – American Cancer Society
Kay O'Rouke, MED – Chaplin, Pastoral Care
Deb Vickers, RN, Cancer Program Administrator
Alice Miller, RHIT, CTR – Cancer Registry
Tom Eichstadt, RPH – Pharmacy
Kim Zieglemeyer, RT (R) - Radiology
Roger Leinberger, RT (R) - Radiology
Diane Morrison, RN – Inpatient Services
Ann Ewers, RN – Palliative Care
Carol Hains, RN – Quality Director
Rene Foster, RT (R) – Radiation Oncology
Erin Wood - RD, LD, CDE, - Nutrition
Jeanne Kinkaid, RD, LD, CDE, - Nutrition

2007 CANCER PROGRAM SUMMARY

Mercy Hospital Clermont offers the highest quality of cancer care as evidenced by the "approval with commendation" status of our cancer program, received by the Commission on Cancer, American College of Surgeons in 2006. Achieving this level of compliance with the required standards of care set by the CoC, assures our patients that they will receive the best of care from diagnosis, through the treatment period and continuing to end of life.

In addition to our wide range of diagnostic and treatment services, our hospital offers many programs to provide assistance to both our patients and their families as they cope with a diagnosis of cancer. Our support services include nutritional support, spiritual support, rehabilitation, palliative care, educational programs for our patients and the community, information on access to clinical trials and cancer support groups and programs, many of which are provided through participation with the American Cancer Society.

Our cancer program, under the leadership of our cancer committee, continues to strive for excellence by setting annual goals to improve and enhance our services and meet the needs of the area we serve.

The Cancer Program implemented many patient care improvements, sponsored many patients, community and staff educational offerings and improved many of our services last year. Among the 2007 Cancer Program Achievements for Clermont are:

2007 Cancer Program Achievements Mercy Hospital Clermont

- Purchased PACS for Radiation Oncology.
- Purchased Focal Sim, block cutter and casting station, initial treatment planning along with block production can now be completed on site at Mercy Hospital Clermont
- PET CT is now provided on site on weekly basis.
- Provided Skin Cancer Screening and Prostate Cancer screening to the community.

CANCER REGISTRY

The Cancer Registry is a vital component of the cancer program, providing data for programmatic and administrative planning, research, and for monitoring patient outcomes. Data is collected according to the current standards of the Commission on Cancer to create a detailed cancer—focused record for all reportable tumors diagnosed and/or treated at our hospital. Each record entered into the database contains information on the diagnosis, extent of disease, treatment received, recurrence of disease and lifetime follow-up for each patient. Aggregate data are analyzed and published without patient identifiers to protect the confidentiality of each patient entered into the cancer database according to Ohio state laws and HIPAA regulations.

A Cancer Registrar performs the collection, interpretation, analysis and reporting of cancer data. The National Cancer Registrars Association defines cancer registrars as data management experts who collect and report cancer statistics for various healthcare agencies. Registrars work closely with physicians, administrators, researchers, and health care planners to provide support for cancer program development, ensure compliance with reporting standards, and serve as a valuable resource for cancer information with the ultimate goal of preventing and controlling cancer. The cancer registrar is involved in managing and analyzing clinical cancer information for the purpose of education, research, and outcome measurement.

The cancer programs at Mercy Health Partners make accurate data collection a priority. The cancer registry at Mercy Clermont is a community-based hospital registry, staffed by a Certified Tumor Registrar (CTR). Certification is maintained by continuing education in cancer data collection standards, cancer program requirements, and in the diagnosis and treatment of cancer.

Registry data is submitted 100% error free to the National Cancer Data Base (NCDB) annually as a requirement of the Commission on Cancer for all approved cancer programs. Submission of data to the National Cancer Database provides feedback to assess the quality of patient care. This feedback enables cancer programs to compare treatment and outcomes with the regional, state and national patterns. Major differences between the facility data and the national data are reviewed in an effort to identify the reasons for these differences.

Cancer data is also submitted to the Ohio Cancer Incidence Surveillance System (OCISS). All reported data are used to support research, track trends, initiate epidemiologic studies, generate journal articles and provide data for allocation of services. The data are analyzed to identify opportunities for community cancer awareness and screening where higher stages (III-IV) of cancers are seen. This data also provides a means of identifying possible cancer clusters within the state.

Registry data are utilized at Cancer Conferences to facilitate discussion of treatment, AJCC stage, follow-up and survival of various cancers throughout the year.

Cancer Conferences

Mercy Hospital Clermont offers prospective, patient-oriented and multidisciplinary Cancer Conferences, which provide free consultative services to our patients and education to the medical and hospital staff. Medical Oncology, Radiation Oncology, Diagnostic Radiology, Pathology and Surgery specialties are available at the conferences to discuss possible treatment options for the types of cancers presented at the conferences. Patient identities are kept confidential.

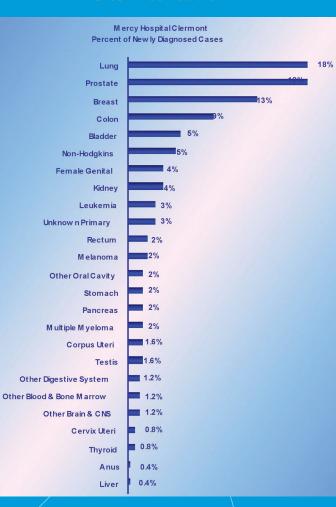
Cancer Conferences are held monthly at Mercy Clermont on the first Tuesday of each month at 7:30 am in Minning Hall and are approved by the Ohio State Medical Association for one Category 1 CME credit hour. Breakfast is provided.

Physicians may contact the Cancer Registry (732-8565) or the Medical Staff office (732-4391) for more information, to receive a current meeting schedule or to schedule at a Cancer Conference.

2007 CANCER DATA SUMMARY AND COMPARISONS

The total number of analytic cases in the Clermont registry since the 1995 reference date is 2,805 cases. During 2007, 244 analytic cases were accessioned into the registry database, with an additional 14 non-analytic (recurrent cancer) cases accessioned into the database. The statistics contained in this report represent only analytic (newly diagnosed) cases.

Site Distribution



Top Cancer Sites In 2007

The most frequently seen cancers at our hospital in 2007 were lung, prostate, breast, colorectal, bladder, and non-Hodgkin's lymphoma. Our top cancer sites compare favorably with the estimated 2007 state and national data.

Gender Comparisons

Review of the distribution of our 2007 cases by gender revealed that 129 of the cases (52 percent) were males and 115 (48 percent) were females.

The most frequent cancer sites in women were breast, lung, and colorectal. Our incidence of lung cancer in females is higher than the estimated 2007 national incidence.

Our most frequent male cancer sites were prostate, lung and colorectal. Our incidence of prostate cancer is slightly higher for males than the national incidence.

Our higher percentages of lung cancer in females are most likely due to the large number of smokers in our local area and state. Our slightly higher incidence of prostate cancer is most likely due to our elderly population.

The high incidence of lung cancers in our service area will likely not experience a decrease until we are able to assess the long-term impact of national and local efforts to promote smoking cessation and the reduction other risk factors.

Top Cancer Sites for 2007								
Primary Site US OH HOSP								
15%	17%	18%						
15%	14%	18%						
12%	11%	13%						
11%	11%	11%						
5%	5%	5%						
4%	4%	5%						
4%	4%	2%						
	US 15% 15% 12% 11% 5% 4%	US OH 15% 17% 15% 14% 12% 11% 11% 11% 5% 5% 4% 4%						

Estimated Figures for US/Ohio

American Cancer Society, Facts & Figures 2007



2007

Top Cancer Sites by Gender
Mercy Hospital Clermont



			0.0				
<u>M</u>	<u>ale</u>	<u>Fe</u> i	<u>nale</u>				
Pro	state	Br	Breast				
U.S. 29%	MHC 34%	U.S . 26%	MHC 27%				
Lung & I	Bronchus	Lung &	Bronchus				
U.S. 15%	MHC 13%	U.S . 15%	MHC 23%				
Colon 8	k Rectum	Colon 8	& Rectum				
U.S. 10%	MHC 11%	U.S . 11%	MHC 10%				
Urinary	Bladder	Uterine	Uterine Corpus				
	MHC 9%	U.S . 6%					
Melanoma	of the Skin	Non-Hodgk	in lymphoma				
U.S. 4%	MHC 2%	U.S. 4%					
Non-Hodgki	in lymphoma	Melanoma of the Skin					
U.S. 4%	MHC 5%	U.S. 4%	MHC 3%				
Amer	ican Cancer Society,	Facts and Figures	s, 2007				

MELANOMA OUTCOME STUDY

Melanoma Incidence and Mortality Trends

Incidence – Skin cancers account for at least half of all cancers but less than 5% of skin cancers are melanomas. Incidence rates increase with age, however, melanoma is not uncommon among those younger than 30 and is one of the more common cancers in adolescents and young adults. Males are slightly more likely (56%) than females and Caucasians are at least ten times more likely than African Americans to be diagnosed with melanoma. It is estimated that approximately 62,480 new cases of melanoma will be diagnosed in 2008, according to the American Cancer Society (ACS).

In the 1970's, melanoma incidence began to rise about 6% per year, slowing to 3% per year in the 1980's and 1990's. Between1995-2004, melanoma continued to steadily rise at about 1% per year. This is in sharp contrast to overall cancer rates that declined steadily by approximately 0.6% per year. During this same period, a 50% increase was seen in melanoma among young women (15-30) and in the 60 years and older age group. Increased rates have been attributed to the thinning of the ozone layer and more exposure to Ultraviolet (UV radiation, an increase in leisure time and outdoor activities, and the popularity of tanning beds.

Mortality – Melanoma is the most serious skin cancer and is the cause of most skin cancer deaths. The ACS estimates that in 2008, about 8,420 people will die from melanoma. The death rate for those over 50 years of age stabilized in the 1990's and is dropping for those under 50.

Melanoma Incidence Comparisons

2007 State Incidence Comparisons

Colorado, Connecticut, Idaho, and Utah lead the nation with melanoma incidence at 6%. Other states with a high incidence (5%) include Arizona, California, Hawaii, Kentucky, Maine, Massachusetts, New Hampshire, New Mexico, North Carolina, Oregon, Rhode Island, and Washington. Melanoma incidence in the state of Ohio is estimated at 4%.

The District of Columbia ranks lowest in our nation for melanoma incidence (2%).

National, Ohio and Hospital Incidence Comparisons

Nationally, it is estimated that melanoma will account for about 4% of the cancers diagnosed in 2007. This mirrors the incidence for Ohio and at our hospital.

Risk Factors

- Ultraviolet (UV) light exposure-UV radiation causes damage to genes in the skin cells. Sources include sunlight and tanning beds/booths.
- Gender-men are more at risk, likely due to more sun exposure (primarily occupational-related exposure)
- Moles-multiple or atypical
- Age-risk increases with age, but is common in younger people
- Race-whites are more than 10 times more at risk than blacks
- Family or personal history
- Fair complexion-natural blondes and red-heads and people with freckles have greater risk
- Xeroderma pigmentosum- a rare inherited condition, increases risk for all skin cancers
- Immune suppression
- Sunburns, especially severe childhood sunburns

Prevention

Most skin cancers, including melanoma, can be prevented by protecting your skin and limiting exposure to the sun. The ACS recommends:

- Limit or avoid ultraviolet exposure during the midday hours (10 am to 4 pm).
- When outdoors, protect your skin; use the "Slip, Slap, Slop" method:
- Wear protective clothing (Slip)
- Wear a hat (Slap)
- Use sunscreen with a sun protection factor (SPF) of 15 or higher (Slop)
- Wear sunglasses
- Seek shade
- Protect children from severe sunburns
- Avoid tanning beds and sun lamps

Screening and Early Detection

The best way to detect skin cancer early is to recognize changes in skin growths or the appearance of new growths. Adults should examine their skin regularly. The American Cancer Society recommends thorough monthly self-examinations of your skin. Any areas of concern should be reported to your physician. It is important to closely watch moles since some may develop into melanoma. Ask your physician annually to examine areas you cannot see. If you have a personal or family history of melanoma, your physician should examine your skin about 2-3 times a year.

Signs and Symptoms

Important warning signs of melanoma include charges in size, shape or color of a skin lesion or the appearance of a new growth on the skin. Changes that occur over a few days are generally harmless but changes that progress over a month or more should be evaluated by your physician. Melanomas often start as small, mole-like growths that increase in size and change color.

A simple ABCD rule outlines the warning signals of the most common type of melanoma. A is for asymmetry (one half of the mole does not match the other half); B is for border irregularity (the edges are ragged, notched, or blurred); C is for color (the pigmentation is not uniform, with variable degrees of tan, brown or black); D is for diameter greater than 6 millimeters (about the size of a pencil eraser).

Diagnostic Methods

Usually, the first step is for your doctor to take your medical history and perform a physical exam. Many dermatologists use dermatoscopy, using a special magnifying lens with a light source to see the area more clearly. Often this test can determine that the lesion is non-cancerous.

If the lesion is suspicious for cancer, or melanoma, an incisional or excisional biopsy of the area is performed. An incisional biopsy removes only a small piece of the lesion. A shave biopsy or punch biopsy may be performed to obtain a sample of the lesion if melanoma risk is low. An excisional biopsy removes the entire lesion and is the preferred method to diagnose melanoma. If enlarged lymph nodes are found on physical exam, a fine needle aspiration or excisional biopsy may be done to determine whether the melanoma has spread to the lymph nodes is sentinel lymph node mapping and biopsy. In this procedure, a dye is injected into the lymph nodes that drain the area where the melanoma originated. If the melanoma has spread, these lymph nodes are usually the first place it would go. If the node is negative for melanoma, no more lymph nodes are removed because it is likely the melanoma has not spread. If the sentinel node is positive for melanoma, more nodes will be taken for microscopic exam.

Imaging tests such as chest x-ray, Computed Tomography (CT scan), Magnetic resonance imaging (MRI), Positron emission tomography (PET) and bone scan are used to determine if the melanoma has spread to lymph nodes or other organs. Very early stage melanoma that is unlikely to have spread may not require these tests. Approximately 5% of melanomas present with metastatic disease but no identifiable primary lesion. The most common presentation for unknown primary melanoma is a lymph node mass. A few patients present with metastases to an internal organ without a known primary lesion. For this type of presentation, a complete work-up is needed to attempt to locate a primary site and to determine the extent of metastasis.

Examples of Benign and Malignant Moles

Normal Mole	Melanoma	Sign	Characteristic
		Asymmetry	when half of the mole does not match the other half
		Border	when the border (edges) of the mole are ragged or irregular
		Color	when the color of the mole varies throughout
		Diameter	if the mole's diameter is larger than a pencil's eraser

Photographs Used By Permission: National Cancer Institute

2000-2005 DATA COMPARISON

Factors that Determine Treatment and Prognosis

Age – Compared to the U.S., Clermont Mercy had a higher incidence of melanoma in the 50 - 69 year age group. The 40 – 49 age groups and the 70-89 age groups were comparable to the U.S averages. Male/female distribution, Mercy Hospital Clermont has a higher incidence in male compared to the U.S. and a lower incidence in females.

Tumor Characteristics

- Several characteristics of primary melanoma tumors help predict the prognosis and risk of metastases.
- Tumor thickness (Breslow depth) is the strongest predictive characteristic for recurrence and is the most important factor in determining patient management. Tumor thickness is associated with poor prognosis, and forms the primary basis for tumor staging.
- Levels of invasion, based on the dermal layers of the skin, are known as Clark's levels and are also associategwd with outcomes.

Clinical factors sfactors such as anatomic site, ulceration, and gender are also prognostic factors for survival.

- Extremity melanomas generally have a better prognosis than those on the head and neck or trunk. However, distal extremity lesions, (foot and hand) have prognoses similar to primaries of the trunk.
- Mucosal and mucocutaneous melanomas have an overall poor prognosis.
- Ulceration is a strong prognostic factor and is included in the AJCC staging system.
- Many studies have shown that melanoma survival rates for women are somewhat better than for men. The reasons for gender-related differences in survival are unknown.

Stage at diagnosis – Melanoma staging is based on tumor thickness (T), nodal involvement (N) and distant metastasis (M).

In comparing our stages at diagnosis, our percentage for stage 0 and stage 1 were lower than the national average and stages 2 and 3 were higher than the national average.

We had considerably more stage 2 patients than seen nationally. Our presentation at early stages (0 and 1) was lower (46%) compared to national (61%). Our stage 3 cases were higher than the national. We did not see any stage 4 cases therefore we were lower than the national average.

Age at Diagnosis Comparison 2000-2005 Melanoma of the Skin **National vs Mercy Clermont AGE AT DIAGNOSIS HOSP** U.S. **Pediatric** 0.1% 0% 16-29 3.5% 0% 30-39 8% 40-49 15% 15% 50-59 19% 23% 60-69 19% 27% 70-79 21% 19% 80-89 13% 12% 90+ 2% Source: National Cancer Database

	2000-2005 Melanoma								
	U.	S.	HOSP						
STAGE	#	%	#	%					
0	5,435	23%	5	19%					
1	8,928	38%	7	27%					
2	2,811	12%	8	31%					
3	1,827	8%	3	12%					
4	1,005	4%	0	0%					
UNK	3,443	15%	3	12%					
TOTAL	23,449		26						

Histology Distribution

Comparing Mercy Hospital Clermont's (MHC) histologies to the United States our malignant melanoma NOS (not otherwise specified) is lower than the U.S. MHC had more nodular melanomas and superficial spreading melanomas diagnosed.

Melanoma Diagnosed 2000-2005								
	U.S	5.	MHC					
Histology	#	%	#	%				
Malignant Melanoma, NOS	14,504	62%	14	54%				
Nodular Melanoma	1,439	6%	4	15%				
Halo Nevus	1	0%	0	0%				
Amelanotic Melanoma	3	0%	0	0%				
Melanoma in Hutchinson's Melanotic Freckle	2,191	9%	0	0%				
Superficial Spreading Melanoma	4,370	19%	6	23%				
Acral Lentiginous Melanoma, Malignant	2	0%	0	0%				
Spindle Cell Melanoma, NOS	1	0%	0	0%				
Other Specified Types	938	4%	2	8%				
Total	23,449		26					

Treatmen

Removal and microscopic examination of all suspicious skin lesions is essential. For malignant melanoma, the primary growth must be adequately excised. Depending on the extent of local growth, one or more nearby lymph nodes may be removed. Melanomas with deep invasion or that have spread to lymph nodes may be treated with immunotherapy or radiation therapy. Advanced cases of melanoma are treated with palliative surgery, immunotherapy, and/or chemotherapy.

Surgery – The primary treatment for melanoma is surgery and is usually considered to be curative for early stage melanomas. Several types of surgery are used, depending on tumor thickness and location of tumor on the body. Adequate surgical margins (the normal, healthy skin around the edges of the tumor) are considered necessary for a good prognosis.

- Simple excision can be used as a cure for thin melanomas
- Re-excision after biopsy provides adequate margins for thicker lesions (see table below)
- Mohs surgery may used when smaller margins are needed to avoid disfigurement, for example, facial lesions
- Amputation used only for deep melanomas involving a finger or toe

Recommended Surgical Margins

Margin size is based on tumor thickness. Thicker lesions require deeper margins.

Tumor thickness	Recommended margins
In situ	0.5 cm
Less than 1 mm	1 cm
1 to 2 mm	1 to 2 cm
2 to 4 mm	2 cm
Over 4 mm	At least 2 cm

ADJUVANT THERAPIES

Chemotherapy

Although chemotherapy is usually not as effective in melanoma as in some other types of cancer, it may relieve symptoms or extend survival for some patients. There are several types of chemotherapy available to treat advanced melanoma.

- Dacarbazine may be used alone or in combination with other chemotherapy drugs such as carmustine and cisplatin. These 3 drugs combined with tamoxifen (a hormonal therapy drug) is called the "Dartmouth regimen."
- Paclitaxel alone or in combination with cisplatin or carboplatin
- Temodar, which can be given in a pill, either by itself or combined with interferon
- Cisplatin, vinblastine and dacarbazine in combination (called the "CVD regimen")

Immunotherapy

Immunotherapy works by enhancing and encouraging the body's immune system to more effectively recognize and destroy cancer cells. Cytokines are naturally produced proteins that boost the immune system in a general way. Two man-made versions of cytokines, interferon-alpha and interleukin-2, can be used to treat advanced melanoma (stage 3 and 4).

• Biochemotherapy or chemoimmunotherapy

Interferon-alpha and interleukin-2 can also be combined with chemotherapy to treat stage 4 melanoma. Combining chemotherapy drugs with 1 or more immunotherapy drug may be more effective than a single chemotherapy drug alone, but may not improve survival.

Melanoma vaccines

Melanoma vaccines are directed specifically at melanoma cells and are experimental, unproven therapies. Unlike vaccines that are meant to prevent infections, these vaccines are meant to treat an existing disease. In an attempt to stimulate the body's immune system to destroy other melanoma cells in the body, killed melanoma cells or parts of cells (called antigens) can be injected into a patient as a vaccine. Usually, the cells or antigens are mixed with other substances that help stimulate the body's immune system as a whole.

• Bacille Calmette-Guerin (BCG) vaccine

BCG, working like a cytokine, can be used to stimulate the entire immune system. Sometimes BCG is injected directly into tumors as treatment for stage 3 melanomas.

• Imiquimod cream

Imiquimod cream stimulates a local immune response and may be suitable treatment for very early stage melanomas (stage 0) of the face, when surgery might cause disfigurement. However, there is some disagreement among physicians over using this cream for melanomas.

Radiation

Radiation is usually not used to treat the primary tumor. However, it can be used as adjuvant therapy to treat lymph node areas, especially if nodal metastasis is present or to treat distant metastatic sites. Patients with recurrent melanoma may receive radiation to the primary skin area. The primary role of radiation therapy for melanoma is to provide palliation (relief from symptoms) to metastatic areas, such as the brain or bone.

OTHER TREATMENT TYPES

Palliative Treatment

When melanoma is diagnosed in late stage the focus of treatment may be palliative. Palliative treatment can include surgery, chemotherapy, radiation, immunotherapy, a combination of these, or simply consist of comfort measures alone. Comfort measures may also be appropriate for patients who are not candidates for treatment due to age, comorbidity and high-risk. The Palliative Care programs at Mercy Health Partners provide a wide range of services to our patients that cover the spectrum of physical, emotional, and practical needs.

Clinical Trials

Clinical trials for cancer treatment offer additional treatment options, including new drugs, new surgery or radiation therapy techniques, or even complementary or alternative medicines. Some trials study drugs that are already approved for one type of cancer to see if it works on a different type of cancer or works better when given a certain way or when combined with other treatments. Clinical trials provide access to treatment that is not otherwise available, and might be safer or more effective than current treatment options. When clinical trials show that a new treatment is better than the current treatment, the new treatment may become a standard treatment. All clinical trials are reviewed and approved by scientific panels to make sure they are ethical, safe, and at least as good as, and possibly better than, the standard and currently available treatments.

According to the American Cancer Society, the number one reason people give for not taking part in a clinical trial is that they didn't know the studies were an option for them. Before starting treatment, patients may want to think about taking part in a clinical trial. Ideally, the patient, family, and health care team should be involved in the decision on choosing the most appropriate cancer treatment.

Treatment Comparison to National Cancer Database

At Mercy Hospital Clermont, 85% of the cutaneous melanomas were surgically resected. We had 5 stage 0 cases and all were treated with surgery only, compared to 96% in the U.S. We had 7 stage I and all were treated with surgery only, compared to 97% nationally. Treatment for these stages was appropriate and is comparable to the U.S.

Of our nine (8) stage 2 cases, all were surgically resected with 88% receiving surgery only (91% nationally) and one case 13% treated with surgery and immunotherapy (BRM) compared to 4% nationally. More of our stage 2 patients received surgery with immunotherapy than nationally. Our stage 2 patients were treated appropriately.

We had (3) stage 3 cases. Two cases were treated with surgery and immunotherapy 67% compared to 17% nationally. The other patient was treated with surgery and chemotherapy compared to 0% nationally. More patients received adjuvant therapy nationally than at our facility. This disparity is likely the result of our having had only 3 cases in the study group.

We did not have any stage 4 cases to review. No stage 4 cases were diagnosed at Clermont.

Of our 3 patients with unknown stage, 100% were treated surgically. 67% (2 patients) received surgery only (82% nationally), one patient received surgery and chemotherapy 33% compared to 0% nationally.

Nationally, more patients were treated with surgery only whereas more of our patients were treated with surgery plus adjuvant therapies. Percentages may be dissimilar

due to our small number of patients in the study.

Summary: Our treatment for all stages was appropriate. In comparison to national treatment, our patients were treated similarly, given the smaller numbers.

Cutaneous Melanoma- Diagnosed 2000-2005 Treatment by Stage Comparison - NCDB vs Mercy Western Hills

Stage at Diagnosis												
	NCDB	MHWH	NCDB	MHWH								
Treatment Type	Stage 0	Stage 0	Stage 1	Stage 1	Stage 2	Stage 2	Stage 3	Stage 3	Stage 4	Stage 4	Stage Unknown	Stage Unknown
Surgery Only	96%	100%	97%	93%	91%	78%	59%	50%	20%	0%	82%	40%
Radiation Only	0%	0%	0%	0%	0.04%	0%	0%	0%	0.1%	50%	0%	0%
Surgery and Radiation	0.02%	0%	0%	0%	0.04%	0%	0%	0%	0.0%	0%	0%	0%
Surgery and Chemotherapy	0%	0%	0%	7%	0%	0%	0%	0%	0.0%	50%	0%	0%
Chemotherapy Only	0%	0%	0%	0%	0%	0%	0%	50%	0.1%	0%	0%	0%
Surgery, Radiation and Chemotherapy	0%	0%	0%	0%	0%	0%	0%	0%	0.0%	0%	0%	0%
Surgery and BRM	0.02%	0%	0.2%	0%	4%	22%	17%	0%	2%	0%	1%	20%
Surgery, Chemotherapy and BRM	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other Specified Therapy	0.3%	0%	0.3%	0%	3%	0%	18%	0%	48%	0%	6%	20%
No 1st Course Rx	3%	0%	2%	0%	2%	0%	5%	0%	29%	0%	10%	20%
% of Cases for Stage Group	23%	25%	38%	34%	12%	20%	8%	5%	4%	5%	15%	11%

Source: National Cancer Database

Melanoma Survival by Stage

Melanoma accounts for 4% of skin cancers but eauses 80% of skin cancer deaths. It has been shown that tumor thickness, age, ulceration, gender, anatomical site, and period of primary diagnosis can help to predict a patient's overall survival. Deaths have continued to decline and this is attributed largely to early detection and treatment which are pivotal to melanoma survival. National data has shown that the five-year survival rate for melanoma has increased from 60% in the 1960s to 87% today. The five-year survival for regional disease which is when melanoma has spread to lymph nodes is 81%. The survival rate for distant disease is 12%.

Comparison of Mercy Hospital Clermont to National Survival

Comparison of survival data for our patients diagnosed in 1998-2000 shows that our overall 5-year survival rates were lower than the national rates. Our 5-year survival for patients diagnosed in 1998-2000 was dissimilar to national. In reviewing the ages at diagnosis and treatment for these cases, it was found that the patients were treated appropriately for the stage group. It was determined that the survival differences are due to our very small numbers.

National Cancer Database-Diagnosed 1998-2000

	Stage									
	0	1	2	4	Overall					
At Diagnosis	100%	100%	100%	100%	100%	100%				
Year 1	99%	99%	97%	91%	38%	95%				
Year 2	97%	97%	92%	76%	22%	90%				
Year 3	95%	95%	86%	64%	17%	85%				
Year 4	92%	92%	81%	57%	13%	82%				
Year 5	90%	90%	76%	51%	12%	79%				

Mercy Hospital Clermont - Diagnosed 1998-2000

		Stage									
	0	1	2	3	4	Overall					
At Diagnosis	100%	100%	100%	100%	100%	100%					
Year 1	67%	100%	100%	100%	50%	82%					
Year 2	67%	100%	100%	100%	0%	76%					
Year 3	67%	100%	100%	100%	0%	76%					
Year 4	67%	75%	75%	50%	0%	57%					
Year 5	67%	75%	75%	50%	0%	57%					

Summary of Findings:

The analysis of our experience with melanoma revealed the following:

- Incidence: Melanoma incidence has been increasing nationally at about 1% per year. Our percentage of 2007 melanoma cases was 4%, more than 1% higher than our percentage in 2006. Our increasing incidence trend reflects the national trend.
- Prognosis: Our stage at diagnosis is similar to the U.S. 79% of our patients were diagnosed at localized stages. However, 10% were diagnosed at later stages.
- Treatment: In looking at our treatment, we found that for all stages, our patients were treated appropriately and met current NCCN treatment guidelines. Our treatment was also comparable to the nation, given our small numbers and elderly patient group.
- Survival: Our 5-year survival for patients diagnosed in 1998-2000 was dissimilar to national. In reviewing the ages at diagnosis and treatment for these cases, it was found that the patients were treated appropriately for the stage group. It was determined that the survival differences are due to our very small numbers.

Recommendations:

- Increase prevention and early detection efforts
- Increase awareness of clinical trials

Community Outreach

The Mercy Hospital Clermont Cancer Program, led by our Cancer Committee, is committed to making a difference in our community. We do this through several means, including promoting skin cancer awareness through participation in local Health Fairs, conducting Skin Cancer Awareness Month activities, increasing awareness of clinical trials and participation in or referral to American Cancer Society programs.

American Cancer Society Programs and Screening Guidelines

For information on American Cancer Society Programs and Screening Guidelines:

• Visit http://www.cancer.org or call 1-800-ACS-2345 (1-800-227-234)

Clinical Trial Information

For information on access to clinical trials in your area:

- Call the American Cancer Society, Clinical Trials Matching Service (a free, confidential program) at 1-800-303-5691 or visit www.cancer.org
- Visit the National Cancer Institute (NCI) website at: www.cancer.gov/clinicaltrials/search
- Visit the Coalition of Cancer Cooperative Groups at: www.cancertrialshelp.org