2015 Annual Report to the Community

Oncology Service Line
Cancer Committee 2015

Committee Leadership

Barry Berman, M.D.  Hematology/Oncology
Quality Improvement Coordinator

Evan Landau, M.D., Radiation Oncology
Head & Neck Cancer Conference Coordinator
Breast Program Leader, Breast Conference Coordinator

Frank Hull, M.D., Pulmonology
Committee Co-Chair

Archana Maini, M.D.  Hematology/Oncology
Adult Clinical Research Coordinator

Marshall Lieberfarb, M.D., Ph.D., Radiation Oncology
Committee Co-Chair; Commission on Cancer, Cancer Liaison Physician (CLP)

Hong Wang, M.D., Ph.D.  Pathology
Cancer Registry Data Quality Control Coordinator

Myra Guenette, MSW, Certified Patient Navigator
Psychosocial Services Coordinator

Elizabeth Maus, MS, Patient Navigation
Community Outreach Coordinator

Heather Miller, MSN, CPON, FACHE, Regional Director Cancer Services & Lillian S. Wells Women’s Center

Cancer Program Administration

Cheryl Taft, CTR, Certified Tumor Registrar, Cancer Data Coordinator
Cancer Conference Coordinator

<table>
<thead>
<tr>
<th>Additional Cancer Committee Members: Physicians</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mehmet Hepgur M.D.  Hematology / Oncology</td>
</tr>
<tr>
<td>Tricia Kalwar M.D.  Hematology / Oncology</td>
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<tr>
<td>Neil Miransky D.O.  Palliative Care</td>
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<tr>
<td>Richard Spira, M.D.  Diagnostic Radiology</td>
</tr>
<tr>
<td>Pameia Sutton, M.D.  Palliative Care</td>
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<tr>
<th>Allied Health Professionals: Non-Physician Members</th>
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<tbody>
<tr>
<td>Reverend L. Ansel Aiken  Pastoral Care, Palliative Care Chaplain</td>
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<tr>
<td>Brent Anderson, RPh  Pharmacy</td>
</tr>
<tr>
<td>Laura Arrington RD, NDN  Registered Dietician, Nutrition Services</td>
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<tr>
<td>Debra Ayer, RN, MSN, MBA, CCRP  Clinical Research Manager</td>
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<tr>
<td>Patricia Baker-Treasure, RN, MSN, OCN, CMSRN  Nurse Manager 4NT, Adult Hematology / Oncology Inpatient Unit</td>
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<tr>
<td>Randy Beckman OTR/CHT  Physical Rehabilitation, Inpatient / Outpatient</td>
</tr>
<tr>
<td>Michael Cutner, MBA, BSN, RN, LHRM  Quality Management / Performance Improvement</td>
</tr>
<tr>
<td>Pia Delvaille, ARNP, MSN, OCN  Nurse Practitioner, Manager, Lillian S. Wells Women’s Health Center</td>
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<tr>
<td>Adele Holman, RN, OCN  Outpatient Infusion Center Coordinator</td>
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<td>Jennifer Lassel, MSW  Palliative Care</td>
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<tr>
<td>Alison Miransky, MSW  Adult Social Work Services, Inpatient</td>
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<tr>
<td>Diana Nickel, BSMT (ASCP)  Supervisor, Cancer Center Laboratory</td>
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<td>Natassia Orr  Administration, COO</td>
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Administrative Report 2015

High Value Cancer Care

Quality Improvement has been a key initiative throughout the year. The team has worked diligently to prepare for our pending Quality Oncology Practice Initiative Certification site visit slated for December 2015. Additionally the teams have continued to ensure all standards are met for our Commission on Cancer, and National Accreditation Program for Breast Centers Accreditations. In February the teams hosted the Joint Commission for re-certification of our Advanced Center for Palliative Care. The team was identified for several best practices and also was noted to be one of the top programs in the country without deficiencies. Our cancer registry staff continues to work on rapid quality reporting and transitioned to the collection of 15 new CP3R measures. The registry staff also continues to facilitate all of our cancer conferences which include general, chest, head and neck, breast, and lung nodule.

Broward Health’s commitment to innovation was illustrated through its acquisition of new imaging equipment in our Lillian S. Wells Women’s Center. Tomosynthesis, Contrast Enhanced Mammography, and Sensory Suites were all added. In an effort to re-invent the mammography experience, BHMC is offering the Sensory Suites, which provide women receiving mammograms an interactive experience that stimulates three senses simultaneously: sight, smell and hearing. Patients have a choice between three environmental sceneries—seaside, garden or waterfall—which begins in the waiting room with decorative wall panels and a bookmark with an accompanying bracelet infused with the corresponding scent. The experience culminates in the exam room, with flat screen monitors displaying videos with the selected ambiance and a scent diffuser that infuses the air with calming fragrance. To further advance our Thoracic Oncology program Navigational Bronchoscopy was added. Navigational Bronchoscopy allows medical doctors to find and reach tumors located in the periphery of the lungs, where smaller bronchi are not wide enough to permit passage of a normal bronchoscope. With Navigational Bronchoscopy, doctors can find lung tumors, take biopsies and administer treatment. A new clinical trials management system will be added to help our investigators and researchers further streamline the clinical research being conducted throughout the health system.

As part of our mission to serve the community several screenings and outreach programs were offered throughout the year. Physician members from our team have been out facilitating educational lectures throughout the community to promote awareness around early detection and screening. The priority focus for screenings based on our community need continued to be centered on Breast Cancer, Lung Cancer, and Colorectal Cancer. More than 2,000 patients were screened through these initiatives during 2015.

Broward Health hosted Dr. Durado Brooks from the American Cancer Society who provided education on the Society’s initiative, “Screen 80% by 2018.” This educational lecture provided the medical staff of the organization guidelines and techniques for screening. The program was re-presented at Gilda’s Clubs “Annual Day of Research and Hope.” This conference was attended by more than 200 community members and provided education on advances in cancer treatments. Two members of our team were accepted in City of Hope’s genetic testing course. This will allow BHMC to continue to enhance its genetic testing program. Our Noreen Burpee Adult Infusion Center was awarded “Best Renovation of 2014,” by Healthcare Design Magazine.

We look forward to the year ahead as we continue to cultivate services that demonstrate high value cancer care.

Heather Miller, MSN, CPON, FACHE
Regional Director Cancer Services, & LSW Women’s Center
Noreen Salah Burpee Infusion Center

The Noreen Salah Burpee Infusion Center rolled out a new initiative by providing weekly oncology patient and family orientation classes. The class begins with a 5 minute video of what to expect on your first day of chemotherapy presented by the Director of Cancer Services. A chemotherapy certified RN conducts the class and reviews the definition of chemotherapy, how chemotherapy treatment is given, and chemotherapy side effects. By attending a class, the new patient can learn about their treatment prior to their first visit and is able to ask questions prior to their appointment date. This has been shown, through evidence based practice, to have an impact on the anxiety and fear related to the first day of treatment. The patients and families also get to interact with other key disciplines that day which includes: oncology patient navigators, palliative care team, and an oncology dietician. A tour is provided at the close of the class so patients are familiar with finding their way on their first day of treatment. This effort has helped key questions in our patient experience metrics move to over the 95th percentile.

Patients can further enhance their sense of healing by utilizing our healing garden. A local artist provided a mural on the garden’s wall, while our patient family advisory council made recommendations for some landscape changes to enhance overall feeling of hope and wellness.

All of the registered nurses are chemotherapy and biotherapy providers through the Oncology Nursing Society’s program. Staff are required to keep this provider status active and renew every 2 years. Educational in-services and ongoing training is provided for the nursing staff. In 2015, we added a new screening process to our patients’ initial assessment, through an evidence based patient care improvement project. The nursing staff screen our patients on the level of fatigue that they may be experiencing. This screening is to help us identify the areas that we can offer assistance for better quality of day to day activities. This may include a consult to our supportive services or medical intervention. Social workers/patient navigators are available for our patients’ needs. Consults are conducted with our palliative care team and a pain specialist (physician) is available upon consultation for our cancer patients. A partnership with a local university, presents a team approach for psychology services that we offer on site. Our dedicated financial oncology counselor is available to assist patients with insurance related questions and financial assistance and planning. An oncology dietician is available for all of our patients.

As 2015 comes to an end, our vision is to continue with excellent patient care, and for growth. The Infusion center has expanded and upgraded to a state of the art facility, while providing an exceptional patient experience.

Adele Holman, RN, OCN
Infusion Center Coordinator
In keeping dedicated to patient and family centered care we have hardwired hourly rounding and bedside shift report as an expectation for all staff. The Nurse Manager conducts daily leadership rounding on at least 80% of patients throughout the shift. The feedback gathered from these rounds ensures a proactive approach to service delivery. We continue to do the daily unit huddles and recognize staff here for a great job.

Giving back to the community is also a priority and as a result about 20 staff members and their families participated in the Making Strides against Breast Cancer event, raising approximately $2,000.00 for the same.

The unit council continues to collaborate with the staff to highlight different employees and sharing a “thank you” by celebrating them on a poster board in the nurses’ station.

Our annual community service continues this year with “The Kinship Program” where the staff supports one family dealing with the death of a parent from cancer, for which the eldest sibling is caring for the others and she is also registered in nursing school.

We have been extremely fortunate in leading Broward Health with five (5) DAISY awardees since its inception.

Our staff is also currently working on a Grand Round presentation for this month.

We continue to perform well with our online Chemotherapy/Biotherapy course. In August 2015 we had a 100% success rate on the required exam. All RN’s who administer chemotherapy to our patients are required to complete this course and its follow up competency, renew their ONS Chemotherapy/Biotherapy card every 2 years, and complete competencies annually.

Patricia B. Treasure, RN, MSN, OCN, CMSRN
Nurse Manager- Inpatient Oncology 4NT
The Lillian S. Wells Women’s Health Center offers comprehensive women’s healthcare in a comforting spa-like environment.

This year Lillian S. Wells Foundation provided our Women’s Center funding to purchase new state of the art equipment called Tomosynthesis. This new equipment was installed and started operating in April 2015. The center also started performing a new procedure called Contrast Enhanced Spectral Mammography. Along with the new state of the art equipment this donation purchased the new Sensory Suite technology. This technology enhances the woman’s experience by stimulating her senses – sight, sound, smell and hearing to distract her from any perceived discomfort and anxiety she might have during a mammogram or other diagnostic procedures.

Services offered in our center are screening and diagnostic mammography, Tomography, ultrasound and MRI of the entire body, Contrast Enhanced Spectral Mammography (CESM), bone densitometry, diagnostic exams and biopsies of the breast, and genetic testing for cancer gene abnormalities. In addition to diagnostic testing our time share Physicians, including Gynecology and Internal Medicine, offer office hours here in the center. This allows the busy woman to take care of all her healthcare needs in “one stop” within our center. The center saw over 16,465 patients for services in FY 2015.

The Lillian S. Wells Women Center continues to reach out to our community with educational and support programs. This is part of our endeavor to strengthen and empower women with the knowledge they need to care for themselves.

We were awarded $90,000 by the Susan G. Komen Foundation in April 2015. This allows us to continue offering screening mammograms and diagnostic services to uninsured women 40 to 50 years of age in our community through our “Every Woman Matters “program. We have maintained a strong partnership with the Florida Department of Health in Broward County to offer services for breast care for women over 50 years of age by utilizing the funds from the Florida Breast and Cervical Cancer Early Detection Program. Susan G. Komen Foundation awarded our center an additional $15,000 to support the “Know Your Genes” program. The Know Your Genes program will provide genetic testing to identify BRCA 1 and 2 mutations in medically underserved women who are diagnosed with breast cancer and have a strong family history. This program will allow these women to make informed decisions about their treatment options and future procedures to treat their breast cancer.

We are humbled and honored by the generosity of our donors, The Lillian S. Wells Foundation, Glam-a-thon, and the Mary Jane Cunningham and Friends group. Our donors work tirelessly to raise funds for the Lillian S. Wells Women’s Health Center with one goal in mind — “helping other women receive the help they need for screening and diagnostic mammograms, biopsies, surgical treatments, rental assistance and much more.” We thank them for their hard work, passion and continued dedicated support of our Center and the women of Broward County.

Pia Delvaille, ARNP
Manager /Nurse Practitioner
Lillian S. Wells Women’s Health Center
Cancer Research

Research holds the key to adding new knowledge to drive advances in developing new medications, new devices, and new treatment options to fight cancer and improve lives. Our oncologists offer innovative cutting-edge clinical research trials through both the National Cancer Institute (NCI) and pharmaceutical research industry. This allows our patients access to the newest therapies under development, integrating this knowledge at the bedside focusing on patient-centered outcomes, and communicating valuable patient-centered results to the community. Participation in these clinical trials enables our oncologists to offer patients multiple treatment options that might not otherwise be available. Using a systematic patient-centered cancer care approach, our patient driven quality goals are guided by balancing scientific research and our commitment to high standards.

The adult cancer research program at Broward Health Medical Center (BHMC) offers clinical trials that target cancers such as breast cancer, colon cancer, head & neck cancer, lung cancer, and leukemia and lymphoma.

Our pediatric hematology/oncology research program of Broward Health Medical Center & Chris Evert Children’s Hospital is a main member of the Children’s Oncology Group (COG), which is an international cancer research group for children with cancer, supported by the National Cancer Institute. Our program has over 40 research trials to offer our patients that include biology, classification, cancer control, quality of life and long-term late effects. Children treated here at our facility can also participate in the COG’s Childhood Cancer Research Network (CCRN) study. Our pediatric team consists of Dr. Hector Rodriguez-Cortes as the principal investigator, along with Dr. Rudolph Roskos, and Dr. Alejandro Cambara.

Our collaborative adult cancer investigator team consists of hematologists/oncologists including Dr. Archana Maini, the Medical Director of the adult cancer research program and a new member of the Broward Health IRB; sub-investigator Dr. Barry Berman, also a Broward Health IRB member; our newest hematologists/oncologists, Dr. Mehmet Hepgur and Dr. Tricia Kalwar; and our surgical, prevention investigator, Dr. Nicholas Tranakas. Through our affiliation with 21st Century Oncology for radiation services, Dr. Marshal Lieberfarb is the senior investigator for the Radiation Therapy Oncology Group (RTOG) along with Dr. Janet Sperry, and Dr. Evan Landau, who wrote and opened our first physician-initiated Head & Neck, Quality of Life trial.

Some of our oncology research nurses are members of the Oncology Nursing Society (ONS) and are certified as OCNs as well as certified research nurses by national recognized groups such the Association of Clinical Research Professionals (ACRP) and the Society of Clinical Research Associates (SoCRA). The manager, Debra Ayer, RN, MSN, MBA, CCRP is a member of both ACRP and SoCRA and certified by SoCRA. For the year 2015, the research team consists of Donna Stefinsky RN, CCRC; Ryan Suer Vo RN, OCN, BS, MBA; and our clinical research associate, Melissa Hoag B.S., who assists the investigators in managing the regulatory requirements of clinical trials and is an active member of the Broward Health Institutional Review Board (IRB). Our pediatric hematology/oncology researches nurses are Claudia Diaz Pow Sang BSN, RN, CCRP and Arlene McMillan BSN, RN, MS, OCN, CCRP who both belong to APHON (Association of Pediatric Hematology Oncology Nurses.)

The research nurse assists the investigators in screening patients for appropriate clinical trials and assists in the consenting/enrollment process. Through a team approach they conduct the required clinical trial visits with the enrolled patients. Many other integrated BHMC teams support the research process; such as our dedicated pharmacists, the cancer registry, the laboratory, radiology, cancer infusion clinic, radiation therapy, oncology unit, ICU, surgery, social services, associated physicians, medical records, registration and the Broward Health Institutional Review Board (IRB).

For more information on our Adult Cancer Research Program, please call 954-355-5346 or 954-712-3949.

Debbie Ayer MSN/MBA, CCRP
Nurse Manager Research
Radiation Therapy

The Radiation Therapy Department at BHMC continues to provide excellent care to our patients. We have completed the renovations to the department and had a very successful Open House where we were able to thank the donors and show our appreciation for their support.

During this year, we installed RapidArc to our Trilogy machine which enables us to deliver intensity modulated radiation therapy with speed and precision. RapidArc shortens treatment times to ½ to 1/8th that of conventional Radiation Therapy and results in better tumor targeting and less damage to surrounding healthy tissue.

We are working on implementing breath hold technology for left side breast cancer, and 4D CT scan.

We instituted a comprehensive program to increase our patient satisfaction scores and have seen very positive results.

Elaine Sandak
Regional Administrator
21st Century Oncology
Palliative Team Accomplishments

Our palliative care team hosted The Joint Commission in February, 2015 for its bi annual re-certification. The site visit was overwhelmingly successful with no deficiencies noted. Our center was also selected for a pilot program and will be one of thirteen across the country. Based on feedback from our patients, families, and staff we were able to implement a religious channel for hospitalized patients as well as a weekly spiritual reflection conducted by our team’s Chaplain.

The monthly palliative care lecture series continues to be successful and reaches medical students, residents, and other staff throughout the organization. Our ELNEC train the trainer programs, were provided to more than 80 staff members. Some of our team members expanded their overall knowledge by attending the NICHE conference, and annual Bioethics seminar. The Team held the 14th Annual Palliative Symposium titled “Expanding the Scope of Palliative Medicine.” This half day seminar was well attended by staff and community medical personnel with over 95 participants in attendance.

The team celebrated National Advanced Directives day by providing education in our main lobby to patients, families and staff regarding advanced directives. The team celebrated National Palliative Care and Hospice month by hosting the Humane Society’s, “snuggle deliveries.” This program allows staff members to interact with dogs and cats with the potential to adopt them.

The palliative care committee continues to work with our IT partners to enhance the electronic medical record. Some new features were added this year which include: modifications to the existing admission form, discharge, and continuation forms. Our team looks forward to the coming year as we continue to expand the program’s reach throughout the organization.
**Patient Navigation and Social Services**

The Social Services Department hosted our third annual Holiday Party in conjunction with Starbucks, December 4, 2014. Patients and family members gathered for a celebration in the spirit of the Holidays. Coffee, hot chocolate & holiday treats were enjoyed by all. We partnered with Whole Foods who provided healthy snack alternatives and The Art Institute who held cookie decorating demonstrations for the patients. Starbucks graciously donated coffee, hot chocolate and treats for the party. Guests were visited by “Nurse Lilly”, one of BHMC’s therapy dogs and her owner Nancy Mizels. Each patient was able to leave the party with a personalized gift donated in kind by a special Doctor and the social services staff members.

Our LIVESTRONG Cancer Transitions Program was once again sustained this year and we were able to offer two four week sessions, one in October and one in May. This program is designed to support, educate and empower people with cancer in the transitional period after treatment is over. The program incorporates support groups, lectures, yoga and nutritional presentations. Twenty of our cancer survivors participated in the classes.

Our LIVESTRONG Artist in Residence Community Impact Project Award was once again sustained this year. We are pleased to announce that we secured funding through a very generous donor for the continuation of the program through 2016. Broward Health Medical Center was selected and received training and funding to replicate The Creative Center’s Hospital Artist In Residence Program. The program sustained an artist for 48 weeks to help patients, their families and caregivers, as well as hospital staff, discover their own creative resources as an outlet to the fear, isolation and boredom that often accompany a diagnosis of cancer. This program has been a great success with well received feedback from our patients who have participated. We added an additional volunteer in order to reach out to even more of our patients. We hope to find another generous donor for the sustainability of the program.

We were awarded yet another LIVESTRONG Community Impact Award, The Jeffrey Wacks Music Therapy Program. This impact award was granted to Broward Health Medical Center in October of 2014. The music program will provide opportunities to reduce stress and pain levels associated with illness and hospitalization, and promote healing and overall well-being. Through music, the therapist will be able to provide comfort and support for cancer patients and their caregivers. We look forward to the continuation of this exciting program.

BHMC was awarded a peer navigation grant through The Florida Breast Cancer Foundation in August 2014. The Peer Navigation Program recruited, trained, and matched breast cancer survivors with newly diagnosed breast cancer patients. Their role was to provide support and assistance for these newly diagnosed women. Peer navigators worked with their matched patient for a period of three to six months. Peer navigators provided information, and facilitated education on breast cancer. The patient navigators also provided community resources and when available accompanied patients to their oncology visits.

Tai Chi continues to be offered to our patients on Tuesday’s at 11am in the Wellness Center. Yoga classes have also been added to the Wellness Center schedule for our patients to enjoy. Yoga is being taught on Thursday’s at 1pm. Thanks to The Wellness Center who has been very collaborative with working out schedules to accommodate our request for more complimentary services for our cancer patients.

We continued our strong alliances with the American Cancer Society as well as Gilda’s Club. The ACS Look Good Feel Better Program is strong and thriving with David facilitating classes every second Tuesday of the month. We successfully hosted, with Gilda’s Club, a series of educational workshops entitled Dinner and Discovery. The talks were well received and attended by members of the professional community.

The 7th Annual Survivor Day Luncheon was held on May 27th, 2015 with over 75 patients and staff in attendance. Our patients were able to celebrate life and share their courageous stories. Our artist in residence, and artist volunteer, facilitated a class on bracelet making. Dr. Barbara Abernathy, PhD, gave a personal and motivational talk on survivorship. This talk was most informative and was well received by all the attendees.
We continue our partnership with the Psychology Department to offer our patients’ supportive counseling. Referrals are made through the Social Services Team. The NCCN Distress Tool continues to be utilized by Social Services to monitor distress in patients.

In keeping with Patient and Family Centered Care, three of our Patient Advocates continue to volunteer, acting as mentors to our patients. Our mentors also continue to act as patient liaisons. Our Patient Family Advisory Council celebrated its second year anniversary on November 12th, 2015. The purpose of the Advisory Council is to capture the unique perspective of current and former patients and their families on cancer center processes and initiatives to ensure a patient-centered focus, and to positively impact the patient experience.

The Patient Family Advisory Council was instrumental in developing a business card/ magnet which provides pertinent contact information to patients during and after hours. This card will reduce our patient’s anxieties and will give them a sense of security in knowing that they can contact their healthcare provider after hours with their questions or concerns. The Council also made recommendations and developed a concept of planting a wishing tree in the garden outside the infusion center. The Council is happy to announce that a magnolia tree has been planted in the garden along with beautiful and new flowering foliage. It is the hope of the Council that patients will write out wishes and attach them to the magnolia tree. The artist in residence Sonia is working on a water resistant tag that patients can place their wishes upon and display on the tree.

Our partnership with Whole Foods Health Starts Here/Green Mission Specialist Mark Mattson continues to be a great success. Mark has provided quarterly Lunch & Learn nutritional educational programs as well as the “Nutrition: Beyond Cancer” discussion for the Cancer Transitions Program. Whole Foods graciously donates a nutritious lunch, a demonstration in making a healthy and nutritious smoothie, as well as recipes and coupons to our patients. We are very grateful for their altruism and philanthropic nature towards our patients and program at a time when budgets are stretched thin.

The Social Services Team was responsible for approaching Iris Casanova of the Florida Fresh Market to see if a market would be feasible here at BHMC to assist in supporting our cancer center programs. The Farmers Market continues its third year every other Tuesday here at BHMC offering fresh fruits and vegetables, as well as lunch offerings for those in search of a healthy hot lunch.

The Social Service Team continues to network with all areas of the hospital to ensure our patient’s needs are being met. Weekly Rounding on the inpatient unit, 4 North Tower, along with a presentation of an educational DVD entitled “What to Expect the First Day of Chemo” to newly diagnosed patients has helped with transitioning from inpatient to outpatient status. We continue to work closely with 21st Century Radiation Oncology through weekly multidisciplinary team meeting. To ensure our patients are being navigated properly into our hematology oncology department, we provide patient navigation in the surgical clinic every Tuesday with the help of the lead surgeon and his residents. Collaborating with our patients and providers as a “team” enables us as a health system to work towards positive outcomes for our patients diagnosed with cancer.

We continue to fulfill our mission of BHMC’s Five Star Values! We look forward to another year of:

- providing exceptional service to our community
- working towards positive outcomes
- collaborating with our patients and providers as a “team”
- utilizing our state of the art infusion center in keeping with an innovating environment

Sincerely,
Elizabeth Maus, MS
Oncology/Social Service Counselor

Mayra Guenette, MSW, CPN
Oncology Patient Navigator
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Speaker/Attendee Details</th>
<th>Location/Room</th>
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<tbody>
<tr>
<td>1-8-15</td>
<td>ASK THE EXPERT: CLINICAL TRIALS</td>
<td>Dr. Maini and Vivian Markle spoke on clinical trials and cancer care. 50 attended.</td>
<td>Gilda’s Club South Florida</td>
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<td>1-28-15</td>
<td>NOREEN SALAH BURPEE RECEPTION</td>
<td>VIP reception for the dedication of the Noreen Salah Burpee Adult Infusion Center. 50 attended.</td>
<td>BHMC Comprehensive Cancer Center</td>
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<td>2-9-15</td>
<td>NOVA PHOTOGRAPHY CLUB</td>
<td>NOVA provided patients with disposable cameras to capture life in a day at the clinic. Photos were displayed in the lobby during child life month.</td>
<td>Peds Hem/onc Clinic</td>
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<td>2-10-15</td>
<td>FOUNDATION/SPONSORSHIP 1000+ CLUB RECEPTION</td>
<td>Reengage 1000+ club to benefit Cancer, Inc. 1000+ provides grant money to cancer related non-profit organizations in Broward County. 100 attended.</td>
<td>Auditorium</td>
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<td>4-1-15</td>
<td>BEACH COMMUNITY CENTER LECTURE</td>
<td>Dr. Jerry Obed lectured on skin cancer. 5 attended.</td>
<td>Beach Community Center</td>
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<td>5-27-15</td>
<td>CANCER SURVIVORS LUNCHEON</td>
<td>In recognition of National Cancer Survivors Day, a luncheon was held to honor cancer survivors. Approximately 75 attended.</td>
<td>Auditoriums</td>
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<td>6-13-15</td>
<td>PEDIATRIC CANCER SURVIVORS CELEBRATION</td>
<td>A celebration for pediatric cancer survivors featuring carnival games, face painting, prizes and more. Approximately 75 attended.</td>
<td>Gilda’s Club South Florida</td>
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<td>6-27-15</td>
<td>13TH ANNUAL DAY OF RESEARCH AND HOPE</td>
<td>The free educational symposium featured exhibitors and an expert panel of top medical professionals including Dr. Frank Hull.</td>
<td>Gilda’s Club South Florida</td>
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<td>7-7-15</td>
<td>COMMUNITY RELATIONS COUNCIL</td>
<td>Heather Miller, RN, MSN, CPON, FACHE, Regional Director, Cancer Services, presented current research at BHMC. Approximately 50 attended.</td>
<td>Auditoriums</td>
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<td>10-1-15</td>
<td>BREAST FEST</td>
<td>LSWWHC had an information booth at breast fest 2015, an evening of breast health awareness and information hosted by the pride center. Archana Maini, MD, spoke on breast cancer awareness and Pia Delvaille provided a triple touch demonstration. More than 100 attended.</td>
<td>Pride Center of Wilton Manors</td>
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<td>10-17-15</td>
<td>GLAM-A-THON GLAM DOLL STRUT</td>
<td>Broward Health High Healers was overall winner in the 50-99 team member category.</td>
<td>Esplanade Park</td>
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<td>10-22-15</td>
<td>AMERICAN EXPRESS PINK TEA FOR BREAST CANCER EVENT FOR EMPLOYEANS</td>
<td>Dr. Tricia Kalwar presented on breast cancer screenings and awareness and Pia Delvaille demonstrated breast self-exams. More than 50 employees attended.</td>
<td>American Express</td>
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<td>11-5-15</td>
<td>GLAM-A-THON WRAP PARTY AND CHECK PRESENTATION</td>
<td>Check presentation was made at cocktail reception. The combined efforts of Glam A Thon’s Signature Events, The Lipstick Lounge and the Strut allowed Glam A Thon to donate $85,000 to Broward Health Foundation. More than 75 attended.</td>
<td>Lillian S. Wells Women’s Health Center</td>
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<td>11-6-15</td>
<td>PALLIATIVE CARE SYMPOSIUM</td>
<td>The Barbara Ziegler Palliative Program’s 14th Annual Palliative Care Symposium &quot;Expanding the scope of Palliative Medicine&quot;, an adult-specific program. 98 attended.</td>
<td>Auditoriums</td>
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<td>11-13-15</td>
<td>SNUGGLE DELIVERY</td>
<td>In celebration of National Palliative Care Month, the Palliative team hosted a snuggle delivery – a visit by the Broward County Humane Society and some of their adoptable pets.</td>
<td>BHMC Cancer Center Conference Room</td>
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<td>11-18-15</td>
<td>HOSPICE WEEK CELEBRATION</td>
<td>In recognition of National Palliative Care and Hospice Month, a celebration was held in the main lobby with Chaplain Wheeler and Dr. Neil Miransky speaking. 25 attended.</td>
<td>BHMC Main Lobby</td>
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Cancer Data Center Report

The Cancer Registry is an information system designed to collect, manage, and analyze data on all patients diagnosed and treated for cancer and other reportable tumors, such as benign brain tumors. Cancer Registrars collect vital information, as required by law, on patients with reportable conditions. Data collected is used by the facility to evaluate quality of patient care and outcomes, as well as planning for community and patient needs.

The Cancer Data Department at Broward Health Medical Center is staffed by individuals with specialized training in cancer data collection. Tumor Registrars who receive this specialized training must also undergo a rigorous professional certification exam administered by the National Cancer Registrar’s Association. Once certified, to maintain their professional credentials Certified Tumor Registrars (CTR) must participate in NCRA approved continuing education programs and submit a minimum of 20 CEUs to NCRA every two years. Submission of CEUs is subject to audit by NCRA for verification of CEU activity. In addition to the CTR Credential, Florida cancer registrar’s must obtain a Florida abstractor code by passing an exam administered by the state cancer registry, Florida Cancer Data System (FCDS), and then must renew their abstractor code annually by passing the FCDS abstractor code renewal exam each year.

In addition to the primary function of cancer data collection and reporting, cancer data staff work with Cancer Program administrators and clinicians to coordinate Cancer Committee and its subcommittees, Breast Program Leadership, Cancer Conferences, and Cancer Quality Improvement activities.

The data we collect is reported routinely to FCDS, as required by law, and annually to the American College of Surgeons, Commission on Cancer, National Cancer Data Base (NCDB) voluntarily. The registry also submits new pediatric cases, and follow-up of pediatric cases to the Florida Association of Pediatric Tumor Programs (FAPTP) Statewide Population Incidence Reporting System (SPIRS).

Submission of data to the NCDB, as part of our CoC Cancer Program Accreditation, to the National Accreditation Program for Breast Centers through our NAPBC Accreditation, and to ASCO Quality Oncology Practice Initiative (QOPI), facilitates monitoring of the quality of care that we provide to our patients, and provides data for benchmarking including incidence, treatment, and outcomes.
In our last complete data collection year 2014, 909 cases were added to our cancer registry database of which 33 were pediatric cancers (age at diagnosis less than 21). The most frequent site, by far, was Breast, for which 202 cases (includes In-situ) were added to the registry representing almost a quarter of all cases in 2014 (22%). The next most frequent site was Lung with 119 cases (13%), an increase of 22 lung cases over the previous 2013 data collection year. Head and Neck sites combined, including 14 cases of cancer of the Larynx, comprised another 9% of all cancers diagnosed, with a total of 81 cases. 78 Colon and Rectal cancers (8.6%), 66 Bone Marrow malignancies (7%), 46 Lymphomas (5%), the majority of which were Non-Hodgkin Lymphoma (31), and 39 prostate cancers (4%) were added. Combined, these sites make up 69% of the cases added to the cancer registry database in 2014 (Graph 1 above). Pediatric Leukemia accounted for 2% of all Leukemia cases and pediatric Lymphomas accounted for 2% of all Lymphoma cases. The 10 pediatric bone marrow malignancies, and 10 pediatric lymphomas collectively accounted for 60% of all pediatric cases diagnosed in 2014.

During 2014, the majority of patients were female, 501 (55%). 408 were males representing 45% of all patients (Graph 2).

In a comparison between the American Cancer Society’s Cancer Facts and Figures 2014 and the newly diagnosed invasive cancer cases at our hospital during 2014 we observed that in males although the ACS estimated the most frequent sites to be prostate, lung, and colorectal, in that order, at BHMC the majority of male cancers occurred in the lung, then in head and neck sites, then prostate respectively, with equally as many colorectal cases as prostate cancers (TABLE 1 top of next page). Of significance, while the ACS estimated approximately 5% of all male cancers diagnosed during 2014 would be head and neck cancers, including larynx, at BHMC 14% of all new male cancers occurred in head and neck sites (TABLE 1 top of next page).

In females the experience at BHMC was similar to ACS estimates with the most frequent occurring sites being breast, lung, and gynecologic sites respectively. While ACS estimated that in females 2% of cases would occur in head and neck sites, including larynx, at BHMC 6% of the newly diagnosed invasive cancers in females occurred in head and neck sites demonstrating that in both males and females there is a higher incidence of head and neck cancers at BHMC than in estimates from the ACS (TABLE 1 top of next page).

When all BHMC 2014 cases are combined, newly diagnosed and those presenting to BHMC with progression or recurrence of a previously diagnosed cancer, and including invasive and In-situ, the overall incidence is similar to that of the newly diagnosed invasive cancers (Graphs 3 and 4 bottom of next page).
Comparison of Broward Health Medical Center 2014 Most Frequent New Invasive Cancer Cases against American Cancer Society, Cancer Facts & Figures 2014

Estimated new cases by sex

(Table 1)

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<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Prostate 27%</td>
<td>Bronchus &amp; Lung 19%</td>
<td>Breast 38%</td>
<td>Breast 29%</td>
</tr>
<tr>
<td>Bronchus &amp; Lung 14%</td>
<td>Head &amp; Neck including Larynx 14%</td>
<td>Bronchus &amp; Lung 10%</td>
<td>Bronchus &amp; Lung 13%</td>
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<tr>
<td>Colon &amp; Rectum 8%</td>
<td>Prostate 9%</td>
<td>Gynecologic 8%</td>
<td>Gynecologic 12%</td>
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<tr>
<td>Urinary Bladder 7%</td>
<td>Blood &amp; Bone Marrow 10%</td>
<td>Colon &amp; Rectum 6%</td>
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<td>Head &amp; Neck including Larynx 5%</td>
<td>Colon &amp; Rectum 9%</td>
<td>Head &amp; Neck including Larynx 6%</td>
<td>Thyroid 6%</td>
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<tr>
<td>Melanoma &amp; other non-epithelial Skin 5%</td>
<td>Liver 7%</td>
<td>Blood &amp; Bone Marrow 5%</td>
<td>Blood &amp; Bone Marrow 4%</td>
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<tr>
<td>Blood &amp; Bone Marrow 5%</td>
<td>Melanoma &amp; other non-epithelial Skin 5%</td>
<td>Thyroid 3%</td>
<td>Non-Hodgkin Lymphoma 4%</td>
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<tr>
<td>Non-Hodgkin Lymphoma 4%</td>
<td>Non-Hodgkin Lymphoma 5%</td>
<td>Non-Hodgkin Lymphoma 2%</td>
<td>Head &amp; Neck including Larynx 2%</td>
</tr>
<tr>
<td>Liver 3%</td>
<td>Urinary Bladder 5%</td>
<td>(Excludes in situ, except urinary bladder)</td>
<td>(Excludes in situ, except urinary bladder)</td>
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<td>(Excludes in situ, except urinary bladder)</td>
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</table>

Broward Health Medical Center 2014 all cancer cases top primary sites by sex (Includes in situ, all sites)

(Graph 3) (Graph 4)
Assessment of the needs of our patients and the community is an ongoing process. In addition, at least once every three years, the Cancer Committee at BHMC performs a comprehensive community needs assessment in order to ensure that we provide services that are structured to meet the needs of our specific patient population and the surrounding community. On September 24, 2015 a Cancer Committee workgroup met to assess our community needs. This team included individuals from Cancer Services Administration, Clinical Research, The LSW Women’s Center, Oncology Nursing, Patient Navigation and Social Work, Clinical Research, Palliative Care, Retail Pharmacy, community partners including Gilda’s Club and American Cancer Society, and the Cancer Registry. Data from the registry, as represented in the graphs below, was utilized as a resource in evaluating the demographics of our patient population over time including incidence (frequency), sex and age, race and ethnicity, insurance status at diagnosis (payer), zip code / city, and Stage of disease at diagnosis for the most frequent sites. A total of 3,206 were included in this evaluation.

(Graph 5)
Sex
The majority of patients diagnosed were female, 55% (Graph 6).

Age
Patients were age 0 (newborn or less than one year-old at diagnosis) to 101 years of age when diagnosed. Ninety patients were pediatric, less than age 21 at diagnosis. The majority of patients were age 60-69, 30%, followed closely by the 50-59 age group, 28% (Graph 6).

Race and Ethnicity
More patients were White Non-Hispanic, 46%, with 40% Black, 12% Hispanic and all other Races combined, 2% (Graph 7).

Insurance Status
Insurance status at diagnosis (payer) is an important factor impacting a patient’s ability to seek and receive adequate, comprehensive, cancer diagnostic and treatment services. It is important to note that while many patients seeking care at BHMC are insured in some manner, 17% of patients required tax fund assistance and 12% of patients were uninsured /self-pay at diagnose as represented in Graph 9 below.
City and Zip Code at Diagnosis

Patients who came to BHMC Between January 2012 and April 2015, had a current residence in 239 different zip code areas that include Florida outside of Broward County, primary residence outside of Florida but in the US, and primary residence outside of the US, foreign. The majority of patients, 87% of them, came from the 21 cities / towns and 45 zip code areas below, with the primary service area being Fort Lauderdale (38%). Only zip codes with 10 or greater patients during the time frame analyzed are listed in the table below. All other zip codes had 9 or less patients.

<table>
<thead>
<tr>
<th>Zip code</th>
<th># of Patients</th>
<th>City</th>
<th>Total # Patients for City / Town</th>
<th>Percent of All Cases, Most Frequent</th>
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<tr>
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<td>32</td>
<td>Davie</td>
<td>77</td>
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</tr>
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<td>33314</td>
<td>26</td>
<td>Davie</td>
<td>492</td>
<td></td>
</tr>
<tr>
<td>33325</td>
<td>33</td>
<td>Davie</td>
<td>1203</td>
<td>38%</td>
</tr>
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<td>Davie</td>
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<tr>
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<td>57</td>
<td>Fort Lauderdale</td>
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### Tumor, Nodes, Metastasis (TNM) Staging

The extent of a patient’s cancer at the time of their initial diagnosis is an important factor for physicians in making treatment decisions, determining appropriate treatment, for each individual patient. The Staging of cases also allows clinicians to evaluate patient outcomes based on groups of patients with similar Stage.

The graphs below show the Stage of disease for the most frequent occurring sites between January 2012 and April 2015 (Graphs 10 – 15). In breast cancer, although the majority of patients during the time frame presented with Stage I disease, a significant number of patients presented with Stage II disease, 24%, which is significant in that the 5-year Relative Survival Rate begins to decrease at Stage II so identifying patients at the earliest Stage improves overall five-year survival (Graph 10). In lung cancer the majority of patients present with advanced, Stage IV, disease (Graph 11). The goal of Early Lung CT Screening, now available at Broward Health, is to decrease the number of lung cases diagnosed at late stage, to improve survival.

### Graphs 10 and 11

- **Graph 10**: BHMC All Breast Cases 1/1/2012 - 4/30/2015
  - AJCC Stage at Diagnosis
  - Stage at Diagnosis:
    - Stage IV: 4%
    - Stage III: 13%
    - Stage II: 24%
    - Stage I: 34%
    - Stage 0/In-Situ: 17%
    - Unknown: 8%
  - Percent of Cases:

- **Graph 11**: BHMC All Lung Cases 1/1/2012 - 4/30/2015
  - AJCC Stage at Diagnosis
  - Stage at Diagnosis:
    - Stage IV: 45%
    - Stage III: 20%
    - Stage II: 11%
    - Stage I: 23%
    - Unknown: 1%
  - Percent of Cases:

### Graphs 12 and 13

As with lung cancer, the majority of patients presenting to BHMC with head & neck and colon & rectal cancers present with late Stage, Stage IV disease (Graphs 12 and 13). This continues to reinforce the need for
community presentations on the prevention and early detection of cancer, as well as our efforts internally, and working with community partners, to provide screening programs targeted toward our most at-risk populations.

(Graph 12)

(BHMC All Head & Neck Cancer Cases
1/1/2012 - 4/30/2015 AJCC Stage at Diagnosis)

(Graph 13)

(BHMC All Colo-Rectal Cases
1/1/2012 - 4/30/2015 AJCC Stage at Diagnosis)

(Graph 14)

(BHMC All *Male Genital Tract Cases
1/1/2012 - 4/30/2015 AJCC Stage at Diagnosis)

Male Genital Tract Cancers
In males, the majority of patients presenting with genital tract cancers present with prostate cancer. In Graph 14 opposite, prostate cancer accounts for 90% of the cancers, which also includes cancers of the skin of the penis, and testicular cancer. The 20% of cases with unknown stage represents patients diagnosed at BHMC, but who did not return to Broward Health for Staging work-up or treatment. Many of these patients are treated medically (Hormone therapy) in a staff physician office.

(Graph 15)
Female Genital Tract Cancers
Malignancies arising in the female genital tract include tumors in the ovaries, fallopian tubes, uterus, cervix, vagina, vulva, and those arising in the GYN tract whose point of origin cannot be determined. At BHMC the majority of patients present with Stage IV disease at diagnosis, once again demonstrating the importance of the need for early detection screening programs, as well as community education about early signs and symptoms of gynecologic malignancies.

In addition to evaluating data to determine the needs of the community, the data above demonstrates the incidence of later Stage of disease cases diagnosed at BHMC and reinforces the importance of a focus on adequacy and appropriateness of services that we provide for palliation, quality of life, and survivorship for our cancer patients, and support for their families.

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