Message from Leadership

For UF Health Cancer Center, 2015 was a remarkable year. The 2-year-old partnership between UF Health and Orlando Health that created the joint UF Health Cancer Center, with locations in Gainesville and Orlando, was designated a Cancer Center of Excellence by the Florida Legislature. This prestigious, inaugural designation was only given to four cancer centers in the state that met rigorous performance measures and demonstrated excellence in providing high quality, comprehensive and patient-centered coordinated care. We are proud to have achieved this designation.

Serving nearly 10,000 new cancer patients annually, together we are one of the largest and most respected cancer care providers in Florida. This year, we made significant advances in sharing best practices and protocols across our two locations and implementing quality improvements to deliver exceptional care to those undergoing cancer treatment. Some of these advances are described in more detail in this report. Other examples include the development of new or expanded programs for lymphedema and genetic counseling, direct patient access to our expert blood and marrow transplantation physicians in Orlando, enhanced programs for cancer survivors through our collaboration with the Cancer Support Community in Orlando and expansion of our offerings of innovative new cancer therapies through our research expertise.

As we work toward our goal of finding better ways to prevent, diagnose and treat cancer, as well as support cancer survivors, we will continue to invest in new research and new facilities to attract the best and brightest in cancer care and discovery. As an example, we will open the first proton treatment facility in Central Florida on our Orlando campus in Spring 2016. This facility will bring many of the pioneering treatment protocols developed at the UF Health Proton Therapy Institute in Jacksonville to patients in Central Florida. We are extremely grateful for the contributions, expertise and dedication of our physicians, employees and volunteers and the generous support of our communities. Working together has made all of these accomplishments possible.

Jonathan D. Licht, M.D.
Director, UF Health Cancer Center

Mark S. Roh, M.D.
President, UF Health Cancer Center – Orlando Health
Cancer Committee Chairmen’s Report

This has been an exciting and eventful year for the UF Health clinical cancer enterprise. In 2015, the UF Health hospital cancer committees in Gainesville and Orlando applied for and received provisional designation as an Integrated Network Cancer Program by the American College of Surgeons’ Commission on Cancer.

The Commission on Cancer has more than 1,500 participating hospitals in the United States and Puerto Rico and represents health care institutions that provide care for more than 70 percent of all new cancer patients. This organization provides important metrics and tools for accredited cancer centers to improve quality.

The combined Cancer Committee formally aligns the two institutions to facilitate robust clinical quality initiatives and ensure outstanding patient centered care. Recent endeavors along these lines included studies of how we, as cancer care providers, assess and manage our patient’s pain concerns and the use of standardized electronic reporting for the resection of bladder tumor pathology specimens. Further, the bringing together of the two cancer committees established the infrastructure for an Electronic Registry Systems (ERS) database to provide standardized Cancer Registry data reports, which are critical to both campuses.

As we prepare for the future while serving today’s patients, our dedication to meeting the complex cancer care needs of our patients and their families remains stronger than ever. In the coming year, the Network Cancer Committee will continue, through the efforts of its broad interdisciplinary membership, to ensure and expand exceptional quality, service and access in the provision of cancer care to the patients we serve.

Don E. Eslin, M.D.  C. Parker Gibbs, M.D.
Chairman (Orlando), Network Cancer Committee  Chairman (Gainesville), Network Cancer Committee
Quality Program Report

The UF Health Cancer Center strives to achieve the highest quality in patient care through a variety of quality activities and accreditations. We adhere to the most stringent national standards as demonstrated by accreditations from:

- The American College of Surgeons Commission on Cancer®
- The Quality Oncology Practice Initiative®
- The American College of Radiology®
- The National Accreditation Program for Breast Centers®
- Foundation for the Accreditation of Cellular Therapy (FACT)

The UF Health Cancer Center Cancer is accredited by the American College of Surgeon’s Commission on Cancer. Together, our Orlando and Gainesville sites have received provisional designation as an Integrated Network Cancer Program. As part of our accreditation, we annually engage in multiple quality studies and quality improvements in all aspects of cancer care.

The UF Health Cancer Center maintains accreditation requirements for other national organizations — each of which have specialty-specific quality metric measurement, analysis and reporting requirements. We participate in the Quality Oncology Practice Initiative (QOPI). The QOPI Certification Program recognizes medical oncology practices that are committed to delivering the highest quality of cancer care. QOPI participation allows us to assess our care and identify areas for improvement. UF Health Cancer Center Radiation Oncology departments are accredited by the American College of Radiology (ACR), which has strict quality reporting standards. In addition, both our Gainesville and Orlando Breast Care Centers have been accredited by the National Accreditation Program for Breast Centers (NAPBC) since 2013. This accreditation requires demonstrated compliance with breast cancer-specific quality, outcomes and improvement projects.

In January 2015, the UF Health Cancer Center began a quality improvement program that expanded the existing, FACT-accredited Blood and Marrow Transplantation Program to include consultations in our Orlando location, providing intake for patients who may need transplantation, which occurs at the University of Florida Health in Gainesville. This program provides improved patient access to this important treatment option and allows our patients living in Central Florida to obtain their initial consultation sooner.

In March 2015, the UF Health Cancer Center – Orlando Health earned the 2015 Women’s Choice Award as America’s Best Breast Centers, which acknowledged its dedication to providing exceptional patient care and treatment. The Orlando site was one of only two cancer centers in the state of Florida to receive this award in 2015.

In September 2015, the Society of Thoracic Surgeons recognized Orlando Health with its highest quality designation for patients undergoing bypass surgery and lobectomy for lung cancer. Only 10 percent of U.S. hospitals annually achieve the society’s Overall Three Star Rating, a quality score based on hospital statistics and outcomes. The thoracic surgery program at the UF Health Cancer Center – Orlando Health has participated in the Society for Thoracic Surgeons database since 2007.
Clinical Research Report

Clinical Trials are an integral part of patient care at the UF Health Cancer Center. In 2014, more than 1,500 individuals participated in cancer research offered at the UF Health Cancer Center (see below). Patients who participate in clinical trials have an opportunity to access new and promising therapies and advance the current and/or future standard of care. Patients are routinely screened for participation in clinical research studies by multiple team members at several points in their care including:

- Multidisciplinary Clinics
- Tumor Boards
- Disease Site Group Research Meetings
- New Patient Reviews
- Review of Patients with Recurrent/ Progressive Disease
- Nurse Navigators
- The HealthStreet Community Outreach Program
- Pathology Reviews

Our clinical trials span the continuum of cancer care — from prevention and screening to treatment and quality of life/supportive care. The clinical trials portfolio is comprised of studies from the National Clinical Trials Network (NCTN) and the cooperative oncology groups, industry sponsored clinical trials, institutional and investigator initiated trials and cancer registries/databases. We also operate a biorepository where human tissues and fluids (biospecimens) are stored for cancer researchers to use for the study of the causes, prevention, detection, diagnosis and treatment of cancer. All treatment (interventional) studies at either site can be found at www.clinicaltrials.gov. Our own website, www.cancer.ufl.edu, contains a patient-focused clinical trials database that can be searched and filtered by disease site and geography to make it easier for patients to find valuable clinical studies. Additionally, there are a number of tools to increase health care providers’ awareness of available clinical research studies. Mobile and web-based applications for providers can be found at trials.cancer.ufl.edu or by searching for UFHCC Clinical Trials NaviGATOR in the application store of your preferred mobile device platform.

2014 UF Health Cancer Center Clinical Research Participation

<table>
<thead>
<tr>
<th>Location</th>
<th>Treatment Studies</th>
<th>Supportive Care Studies</th>
<th>Basic Science Studies</th>
<th>Prevention Studies</th>
<th>Screening Studies</th>
<th>Other</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gainesville</td>
<td>166</td>
<td>40</td>
<td>147</td>
<td>2</td>
<td>2</td>
<td>770</td>
<td>1127</td>
</tr>
<tr>
<td>Orlando</td>
<td>133</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>254</td>
<td>387</td>
</tr>
<tr>
<td>Total</td>
<td>299</td>
<td>40</td>
<td>147</td>
<td>2</td>
<td>2</td>
<td>1024</td>
<td>1514</td>
</tr>
</tbody>
</table>
Cancer Registry Report

The cancer registry is the statistical database for malignancies diagnosed and/or treated at the UF Health Cancer Center. The cancer registry identifies, collects, manages and analyzes cancer data that is used for program development, quality improvement initiatives, identification of at-risk populations for education and screening, outcomes analysis and clinical research.

Data from the cancer registry is submitted to the Florida Cancer Data System (FCDS) and the National Cancer Data Base (NCDB). These agencies use the data to evaluate trends in cancer incidence, diagnosis and treatment; to design and evaluate cancer control programs; and to recommend policy and research at state and national levels.

Review of registry data shows that the top five program sites for the UF Health Cancer Center are breast, lung, brain, colorectal and prostate cancers. These top five disease sites represent 45 percent of the new cancer cases seen in Gainesville and Orlando. The graph below depicts the incidence of these cancers for UF Health Cancer Center compared to the incidence for the State of Florida and the United States.

Top Five Primary Sites - Comparative Incidence
2014 Analytic Cases

<table>
<thead>
<tr>
<th>Disease Site</th>
<th>UF Health Cancer Center</th>
<th>Florida</th>
<th>United States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breast</td>
<td>15.2%</td>
<td>13.5%</td>
<td>14.1%</td>
</tr>
<tr>
<td>Lung</td>
<td>15.7%</td>
<td>11.3%</td>
<td>13.5%</td>
</tr>
<tr>
<td>Colorectal</td>
<td>13.5%</td>
<td>6.0%</td>
<td>8.9%</td>
</tr>
<tr>
<td>Brain &amp; Meninges</td>
<td>5.7%</td>
<td>1.5%</td>
<td>1.4%</td>
</tr>
<tr>
<td>Prostate</td>
<td>14.5%</td>
<td>5.1%</td>
<td>14.0%</td>
</tr>
</tbody>
</table>
Although cancer can occur at any age, the graph below shows that among UF Health Cancer Center’s top five sites, cancer diagnoses begin to rise significantly in the 40-49 age group. The majority of cancers were diagnosed in patients between ages 50-79.

Cancer staging plays a very important role in determining choice of treatment and assessing prognosis. Staging describes the extent or spread of the tumor at diagnosis. The cancer registry captures data using the AJCC staging system. The graph below illustrates the AJCC stage for the top five sites at time of diagnosis.
The class of case describes where a case was diagnosed and how much of the treatment was received at the reporting facility. Below you will see that for our top five sites, a very small percentage received diagnosis only (class of case 00) at UF Health Cancer Center, while almost half were diagnosed with all or part of their first course of treatment occurring at the UF Health Cancer Center (class of case 10-14). The other half of cases were diagnosed at a different facility but chose to receive all or part of their first course of treatment with our hospitals (class of case 20-22).
Annual Patient Care Review

The UF Health Cancer Center has organized its mission around clinical, research and quality initiatives. It is within this framework that we perform systematic quality assessments by reporting results of generally accepted measures of structure, process or outcome. By comparing these results with similarly-sized institutions or the totality of reporting institutions (benchmarking), we can identify areas where improvement may be needed. Moreover, some accreditation organizations have established minimum scores for these measures to ensure that member institutions maintain consistent standards associated with the delivery of high quality care.

In addition to the permanent monitoring of quality metrics, and in compliance with the Commission on Cancer requirement to report an Annual Study of Data, we undertook the task of evaluating whether patients with high risk prostate cancer receiving external beam radiotherapy were routinely prescribed adjuvant hormonal therapy in the form of androgen deprivation therapy. This is a measure currently recognized and endorsed by the National Quality Forum. At the national level, within this measure, there has been considerable variation, as recently reported in different Hospital Service Areas and Medicare claims identified by the Surveillance, Epidemiology and End Results (SEER) program. In general, adherence rates have been reported around 76 percent (range 72-88 percent) across all age groups and ethnicities.

Our study identified all patients treated for prostate cancer with definitive radiotherapy over the entire 2013 calendar year and the first half of 2014. A retrospective chart review was done in order to identify patients considered to be at high risk of recurrence according to the D’Amico risk stratification classification:

1. Gleason sum greater or equal to 8, or
2. PSA greater than 20ng/mL and more than 1 positive biopsy core, or
3. Intermediate risk and more than 50 percent involved biopsy cores

We specifically reviewed whether a discussion of potential benefit of therapy and individual risk was documented and whether a final recommendation was made and followed.

We identified 46 patients that were considered to be at high risk of recurrence. These patients received external beam radiation therapy at UF Health Cancer Center in Gainesville or Orlando. Of note, all patients at both institutions were recommended to receive adjuvant therapy. Ultimately, 40 patients adhered to the recommendation by choosing to receive androgen deprivation therapy (ADT), and 6 of them declined therapy. Our guideline adherence in terms of recommending hormonal therapy is 100 percent. Patients opted for this therapy in 87 percent of the cases.

High Risk Prostate Cancer Patients Diagnosed Between Jan 2013- June 2014

<table>
<thead>
<tr>
<th>Facility</th>
<th>ADT Recommended</th>
<th>ADT Received</th>
<th>Patient Declined</th>
</tr>
</thead>
<tbody>
<tr>
<td>UFHCC Gainesville</td>
<td>17</td>
<td>13</td>
<td>4</td>
</tr>
<tr>
<td>UFHCC Orlando</td>
<td>29</td>
<td>27</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>46</td>
<td>40</td>
<td>6</td>
</tr>
</tbody>
</table>
In conclusion, adherence to this very important guideline at our institutions was 100 percent during the studied period. This resulted in patients with high risk prostate cancer treated at UF Health Cancer Center receiving adjuvant treatment at rates far exceeding those reported in SEER at the national level.


Review prepared by:

**Paul L. Crispen, M.D.**  
*Assistant Professor, Department of Urology*  
*University of Florida*

**Julio J. Hajdenberg, M.D.**  
*Chairman, Department of Medical Oncology and Hematology*  
*UF Health Cancer Center – Orlando Health*

**Akash Nanda, M.D., Ph.D.**  
*Director, Urologic and Hematologic Radiation Oncology*  
*UF Health Cancer Center – Orlando Health*

**Robert A. Zlotecki, M.D., Ph.D.**  
*Professor, Department of Radiation Oncology*  
*University of Florida*
Public Education and Outreach

UF Health Cancer Center locations in Gainesville and Orlando support their local communities by offering programs that provide cancer awareness, prevention and treatment information to the public. Some of our program’s areas of focus include smoking cessation, lifestyle choices (including exercise and healthy eating), sun safety and routine screening. The following are highlights of our public education and outreach activities in 2015.

Employee Health Fairs

Cancer Center staff participated in health fairs arranged by local employers for their employees. They promoted cancer awareness and provided general information on cancer prevention, along with focusing on specific cancers such as colon cancer, skin cancer and breast cancer. Some presentations included information on nutrition and healthy eating and the role they play in prevention. Children’s Home Society, Orlando Utilities Commission, and CNL Financial Group are just a few of the companies our staff have worked with this past year.

Community Based Health Fairs and Events

UF Health Cancer Center has built strong relationships with many community partners including Sisters Network, Inc., Hispanic Health Initiatives, Inc., the American Cancer Society, the Leukemia Lymphoma Society and many more. With the help of our community partners, we were able to provide cancer prevention and outreach through a large number of community health fairs, lunch-and-learns and seminars. Below are just a few of the events our physicians and staff participated in during the past year:

- Sisters Network National Conference with Nikita Shah, M.D. and Rebecca Moroose, M.D.
- Healthy Advantage Seminar and Women’s Advantage Seminar, both featuring colorectal cancer with Atif Iqbal, M.D.
- Hispanic Health, Cancer Support Group and Nutrition with Francesca Vazquez Bragan
- Oral Head and Neck Survivor Event featuring Food Modification
- Macedonia/Eatonville Health and Wellness Fair for colon cancer prevention
- Sisters Network Lunch and Learn for Breast Cancer with Rebecca Moroose, M.D.
- UF Health Community Health Fair with Pam Clevenger, Breast Nurse Navigator
- UF Health and UF Health Cancer Center Integrative Medicine Conference in Orlando
- Hispanic Health Initiatives, Inc. Festival De La Familia Health Fair
- Center for Multicultural Wellness and Prevention Caribbean Health Summit
- Women’s Advantage seminar featuring ovarian cancer with Jacqueline Castagno, M.D.
- “Someone You Love” HPV and cervical cancer documentary and physician panel supported by American Cancer Society, Women’s and Girls’ Cancer Alliance and UF Health Cancer Center gynecologists
- Sixth Annual Gainesville Community Health and Empowerment Summit featuring health exhibits and screenings, a sit-down brunch and an inspirational presentation about how precision medicine can improve cancer care for African Americans
- First Annual Gallery of Hope Photography Exhibition for Pancreatic Cancer Awareness Month featuring inspirational photo exhibit event inspired by photos by pancreatic cancer survivors at UF Health Shands Cancer Hospital
Runs and Walks

Focused teams supported major area events to promote awareness and prevention, including:

- Walk for Well-Being supported by a grant from the Florida Department of Health, Centers for Change
- Winter Garden Police Athletic League, Hot Pursuit Pedal for PAL
- American Lung Association, Lung Force Walk
- Women’s & Girls’ Cancer Alliance, Mother’s Day 5K
- Get Your Rear in Gear 5K Run/Walk, Colon Cancer Coalition
- Sisters Network, Inc. Stop the Silence National African American Breast Cancer Walk
- Pink Pumpkin Pedal-Off
- American Cancer Society Relay for Life
- American Cancer Society, Making Strides Against Breast Cancer

Screening Events

Cancer screening often leads to the early detection of many cancers. Early detection is significant because if cancer is found early, it may be more easily treated. Free screenings for certain types of cancer were offered throughout the year at community health fairs such as the Gainesville Community Health and Empowerment Summit in September. UF Health Cancer Center also offered free community screening events like the Oral, Head and Neck Cancer Screening in April.

Smoking Cessation

The Great American Smokeout is an event that takes place in November during Lung Cancer Awareness Month. The event focuses on encouraging smokers to quit or to use the day to make a plan to quit. UF Health Cancer Center, along with The American Cancer Society, offers support to those who are prepared to quit smoking during the Great American Smokeout. Our Cancer Center locations also offer multiple opportunities for smoking cessation throughout the year providing free community classes, support and the tools to help smokers quit.

National Breast Cancer Awareness Month Events

Cancer Center physicians and staff are especially busy participating in breast cancer awareness events and outreach during “Pink October.” Our Orlando location hosts a Hope Hike at multiple locations that includes participation by City of Orlando officials. Throughout the month, outreach occurs at health fairs, churches, schools/colleges/universities and during lunch and learns. Some of the groups we’ve worked with this past year include: Bethel SDA Church, Mt. Sinai Missionary Baptist Church, Sisters Network Orlando, Valencia Community College Pre-Med Club and the UF Institute of Food and Agricultural Sciences (IFAS) Extension.