

CANCER

DISCOVERY & CARE

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**COLLABORATION
CREATES
OPPORTUNITY**

This edition of *Cancer Discovery and Care* highlights our proudest accomplishments in 2010, and those who helped us achieve them. Thank you for supporting UPMC Cancer Centers and the University of Pittsburgh Cancer Institute.

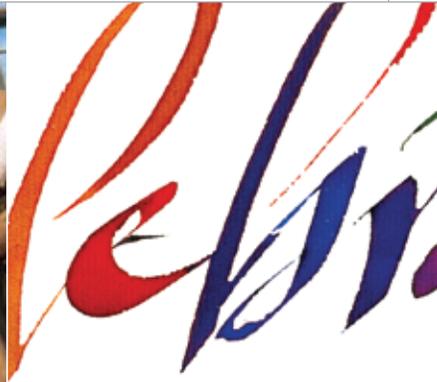
**UPMC CANCER CENTERS AND
UNIVERSITY OF PITTSBURGH CANCER INSTITUTE**



A Comprehensive Cancer
Center Designated by the
National Cancer Institute

The University of Pittsburgh Cancer Institute, working in conjunction with UPMC Cancer Centers, UPMC's clinical care delivery network, is western Pennsylvania's only National Cancer Institute (NCI)-designated Comprehensive Cancer Center, reflecting the highest level of recognition by NCI.

CANCER
DISCOVERY & CARE



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COLLABORATING TO ADVANCE TOWARD A FUTURE WITHOUT CANCER



At the University of Pittsburgh Cancer Institute (UPCI) and UPMC Cancer Centers, we realize living with cancer requires

determination, perseverance, and courage on the part of our patients and knowledge, experience, empathy, and commitment from the medical team. This is why our team of physician-scientists and clinicians is relentless in their search for new ways to understand and treat this disease, and provide this knowledge to patients no matter what they have or where they live.

Partnerships are at the heart of all we must do to optimize outcomes for patients with all types of cancer from the common to the rare. Take the problem of mesothelioma, a rare cancer found in the lining of the lungs or abdomen that affects 2,000 individuals each year. We have a team that specializes in confronting this cancer. This is why when the Simmons Mesothelioma Foundation, a national organization dedicated to helping patients with mesothelioma gain access to care, learned about the Mesothelioma Specialty Care Center at UPMC Cancer Centers and our multidisciplinary approach to care, joining resources was a natural fit. This collaborative effort also was enhanced by the support of two out-of-state families who generously donated funds to continue to build the program.

While we are justifiably proud of our nationally- and internationally-recognized cancer care and research that draws patients from across the country, we are equally passionate about our unique hometown and regional presence. Our success is closely tied to our community partners throughout the western Pennsylvania region. In this edition of *Cancer Discovery and Care*, see how our expansive network of community oncologists offers patients easy access to the highest-quality standard of care through our innovative Clinical Pathways program.

Our commitment to patients and their families continues to inspire us in the lab to find new and better ways to detect and treat cancer at the bedside. However, finding these therapies is only part of the journey. Realizing that cancer patients and their caregivers rarely get a vacation from cancer — chemotherapy treatments must continue; radiation appointments must be kept — Hillman Cancer Center has implemented the *Your Care. Our Commitment.* patient program. Working in collaboration with patients and health care providers, our team developed this program so that all the needs of the patient and family, from emotional and pain management to nutritional and peer support, are being met and their navigation through cancer treatment is as comfortable as possible.

But our commitment doesn't end there. Behind the scenes, our researchers are making headway across all cancer types, developing new treatments, with the goal of a future without cancer. Among this talented group, newly recruited researchers Adrian Lee, PhD, and Steffi Oesterreich, PhD, work alongside Robert Edwards, MD, to develop and advance UPCI's new Women's Cancer Research Center, and in turn, cultivate the next generation of researchers whose goals are to eradicate this disease. And our latest discovery is elucidating for the very first time the DNA sequence of head and neck cancers as the next step in developing personalized cancer care. You can read more about this work from our internationally-recognized team next time.

From our laboratory research to the treatment of our patients, we aim for excellence in everything we do, with the hope that the future will someday be cancer-free. Until then, we take pride that the work we do translates into patient care across our community. Our patients motivate and inspire everything we do, and we are continually grateful they trust us for their comprehensive care.

Nancy E. Davidson, MD

A handwritten signature in black ink that reads "Nancy E. Davidson". The signature is fluid and cursive, with the first name being the most prominent.

Director
UPCI and UPMC Cancer Centers

COLLABORATION CREATES OPPORTUNITY

**A UNITED FRONT TO
BATTLE A RARE DISEASE**





COLLABORATION CREATES OPPORTUNITY



In January 2008, John Lee Bosley Brooke co-founded Fairway America, a small business and real estate financial solutions provider in Portland, Ore., and as principal owner, took on a specific role as chief financial officer. Once named in *Portland Business Journal's* "Top 40 Under 40," John was an astute businessman; but more than anything, John cherished his wife and two young children.



When he began experiencing abdominal pain in February 2008, he was initially relieved to be diagnosed with a hernia and was advised not to be too concerned. Unfortunately, John's pain didn't subside and after several inconclusive biopsies in Portland, John was referred to Memorial Sloan-Kettering Cancer Center in New York. A biopsy performed there confirmed John had peritoneal mesothelioma, the rarer of the two types of mesothelioma.

Mesothelioma is a malignant tumor found in the lining of the lungs (pleural mesothelioma) or the abdomen (peritoneal mesothelioma). Although rare, according to the National Cancer Institute, mesothelioma is diagnosed in more than 2,000 people each year, most of whom have had exposure to asbestos, a chief cause of the disease. Considered a latent disease, mesothelioma often doesn't show symptoms until 30 to 50 years after exposure, making the disease difficult to treat due to the likelihood that it has spread.

After his diagnosis, John was referred to David L. Bartlett, MD, chief, Division of Surgical Oncology, UPMC Cancer Centers. Working closely with John's physician at Sloan-Kettering, Dr. Bartlett developed a customized treatment plan that included six months of chemotherapy in John's hometown to shrink the mass, and hyperthermic intraperitoneal chemoperfusion (HIPEC), an advanced surgical procedure that isolates the abdominal cavity and bathes the cavity in heated chemotherapy, sparing adjacent, healthy tissue. Dr. Bartlett performed John's HIPEC procedure in August 2008 at UPMC Cancer Centers' David C. Koch Regional Perfusion Cancer Therapy Center, where physicians specialize in the treatment of cancers beyond the point of surgical removal with the hope that it may extend and improve the quality of life.

"Our family's experience with Dr. Bartlett and UPMC was amazing," says Lisa Brooke, John's wife. "Dr. Bartlett was gentle, yet brilliant; he was able to explain everything in terms that we understood. Everyone at UPMC took the time to make us feel like human beings, instead of a number or a statistic."

Difficult outcomes provokes a change

Despite efforts to cure his cancer, John lost his battle with the disease at age 43, two years after his diagnosis.

Thankful for the care her husband received, Lisa made a generous contribution to UPMC Cancer Centers' mesothelioma program, which helped to establish the Mesothelioma Specialty Care Center of UPMC Cancer Centers and University of Pittsburgh Cancer Institute (UPCI). The new Specialty Care Center is one of 14 that offers patients a coordinated approach in which leading experts in surgery, drug therapy, and radiation therapy are brought together to discuss each patient's care, including diagnosis and treatment, so that individualized strategies can be implemented faster, to maximize efficiency and minimize anxiety.

"We felt it was important that we help in some fashion to continue the clinical care and research Dr. Bartlett had started, so patients can obtain effective treatment for this disease now and in the future," says Lisa.

Around the same time, the program received additional funds from another out-of-state family who had a family member diagnosed with mesothelioma and sought care at UPMC Cancer Centers. Keith Barket and his wife, Laura, traveled from New York City to Pittsburgh to meet with Dr. Bartlett just three days after Keith was diagnosed with peritoneal mesothelioma.

"From our first contact with Dr. Bartlett and his staff, we knew we were in the right place," says Laura. "We were cautiously optimistic, even though we knew the diagnosis was grim. We really thought Keith was going to be the one in one million who was going to beat this."

They arrived in Pittsburgh the Sunday before Christmas in 2010 and Keith was immediately put on a treatment plan that included chemotherapy to shrink the tumor, followed by surgery. Unfortunately, Keith's disease had progressed so quickly that he succumbed to a cancer-related blood clot and he died just three days after arriving in Pittsburgh, at the age of 49.



**“...WE DESIRED
A MORE
COLLABORATIVE
APPROACH TO
BRING UNITY TO
THE PROGRAM
AND FACILITATE
RESEARCH.”**

DAVID L. BARTLETT, MD | UPMC Cancer Centers

“Even though our exposure to UPMC Cancer Centers was short, and the outcome was devastating, I know in my heart that we made the right decision [to seek treatment at UPMC Cancer Centers],” says Laura. “Knowing that gives me peace of mind. It still comforts me today to know that we were in the right place to try to beat this.”

Keith’s family ultimately traced his mesothelioma to asbestos exposure that he sustained while working with drywall in the mid-1970s during a summer job when he was a teenager. Asbestos is a naturally occurring group of minerals once commonly used in plaster, caulk, insulation, and drywall, because of its ability to resist heat, and has been linked to mesothelioma.

Laura was so impressed with the personalized attention her husband received at UPMC Cancer Centers and the efforts put forth to save him, that she, together with others, made a contribution to fund Dr. Bartlett’s mesothelioma research, so that hopefully, families shouldering a mesothelioma diagnosis in the future won’t have to go through what she did.

“I knew that Keith would want this,” says Laura. “I wanted to make it a part of his legacy and address this rare cancer. It would be great to know that, one day, someone survives this cancer because of Dr. Bartlett’s research and what we contributed to it.”

“The timing of the two donations was serendipitous,” says Dr. Bartlett. “Although our center had physicians who specialized in treating pleural mesothelioma and the rarer peritoneal mesothelioma, we desired a more collaborative approach to bring unity to the program and facilitate research. These donations helped us to achieve that.”

Specialized expertise for a rare disease

Diagnosing and determining the stage and type of mesothelioma is a main priority when determining effective treatment options. The Mesothelioma Specialty Care Center team — which includes experts in thoracic surgical oncology, surgical oncology, medical oncology, radiation oncology, pulmonology, pathology, radiology, pain management, and palliative care — meets regularly to evaluate each patient’s case and determine the best course of action. They develop treatment strategies in tandem with referring physicians to ensure the best care for each patient. And, whenever possible, treatment and follow-up care can be provided at one of UPMC Cancer Centers’ community network locations, allowing patients to receive high-quality care close to home.

For the majority of individuals, surgery is often the best option. To improve quality of life and prolong survival, surgical experts at UPMC Cancer Centers are evaluating the use of HIPEC combined with minimally invasive surgery to treat mesothelioma.

“For the past decade, two surgical procedures have been available for mesothelioma patients,” says James Luketich, MD, co-director, Surgical Oncology Services and Chair, Department of Cardiothoracic Surgery. “One carries a very high risk and is very aggressive. The other is less aggressive and typically yields better results. We found that combining the less risky option with HIPEC offers the potential for good, long-term results.”

The multidisciplinary team continues to make strides in the treatment of mesothelioma so that patients who are diagnosed with the disease have options to fight it.



COLLABORATION CREATES OPPORTUNITY

A national partnership

As word began to spread about the personalized mesothelioma care available at UPMC Cancer Centers, the Illinois-based Simmons Mesothelioma Foundation, a national nonprofit organization dedicated to finding a cure for mesothelioma through research funding, public education, and advocacy, took interest.

“We initially learned about UPMC Cancer Centers through the family of a recently treated patient who was grateful for the care and compassion their loved one had received,” says Joy Wheeler, director, Simmons Mesothelioma Foundation. “After being introduced to the program leaders, we were impressed with UPMC Cancer Centers’ existing expertise and infrastructure. They were excited, and so we engaged in a conversation about how the foundation could help support their work.”

Established in 2010 through a pledge from Simmons Browder Gianaris Angelides & Barnerd LLC, a national law firm that has represented thousands of victims of mesothelioma and asbestos-related disease, the Simmons Mesothelioma Foundation’s mission is to fund research, build awareness, and advocate for people with mesothelioma.

The foundation made a three-year contribution of \$350,000, which was used to support the hiring of a clinical care coordinator for the Mesothelioma Specialty Care Center. The coordinator serves as the main point person for local and out-of-state patients who receive treatment at our mesothelioma program, and works with the physicians and clinical staff to internally coordinate all communications and services for the program.

“What drew us to partner with UPMC Cancer Centers and UPCI was the clinicians’ intent and focus on patient care,” says Ms. Wheeler. “There’s no doubt that this funding is critical for the program and the patient’s experience.”

Dr. Bartlett agrees. “This generous gift from the Simmons Mesothelioma Foundation to expand our program will positively

impact the lives of our patients and their families,” he says.

“We had all the players in terms of treating the disease; we just needed the coordinator to pull it all together.”

A valuable resource

As part of UPMC Cancer Centers and UPCI’s comprehensive approach to treating mesothelioma, the program looks at unique ways to treat the disease through innovative research. The simultaneous donations to the program also were put toward basic research to help move cancer discoveries in mesothelioma from the bench to the bedside quickly.

The donations have allowed the Department of Biomedical Informatics at the University of Pittsburgh to enhance its National Mesothelioma Virtual Tissue Bank, which has become a major resource for collaborative research between clinicians and investigators nationwide. The program makes it easy for researchers from around the country to access tissue and blood samples from mesothelioma patients to address important research questions.

“Because of the coordinated efforts of the tissue bank, we are in the process of introducing a vaccine clinical trial with the potential to significantly and effectively treat mesothelioma,” says Dr. Bartlett. “This is something that we never would have accomplished without the generous contributions of the families and the Simmons Mesothelioma Foundation.”

UPMC Cancer Centers and UPCI recognize the importance of a cohesive partnership to understanding, diagnosing, and treating cancer. Collaboration advances the fight against cancer, resulting in quality, compassionate care for our patients. “There’s not a lot of funding for these rare diseases,” says Dr. Bartlett. “The key is to provide expertise from multiple disciplines, so ideas can be exchanged and the best treatment offered. This is a wonderful example of a ‘perfect storm’ as it really takes a community to help build a program of this magnitude.”

“...WE ARE IN THE PROCESS OF INTRODUCING A VACCINE CLINICAL TRIAL WITH THE POTENTIAL TO SIGNIFICANTLY AND EFFECTIVELY TREAT MESOTHELIOMA.”

DAVID L. BARTLETT, MD | UPMC Cancer Centers

The Mesothelioma Specialty Care Center of UPMC Cancer Centers and the University of Pittsburgh Cancer Institute (UPCI) is bringing expert and coordinated mesothelioma care to patients in southwest Pennsylvania and around the country. Two local families are doing their part by bringing local attention and awareness to the rare disease that abruptly ended the lives of their loved ones.

Lindsay Anderson's mother, Kathleen Buchner from Greentree, was diagnosed with mesothelioma in January 2011, just before her 57th birthday. "My mom was very active and healthy," says Lindsay. "She was never sick, never in the hospital."

Despite efforts to treat her disease, Kathleen passed away just two months after her diagnosis.

Lindsay and her sister, Katelyn Becker wanted to do something to honor their mother and raise awareness for mesothelioma. In March 2011, they contacted the Simmons Mesothelioma Foundation, a national nonprofit organization dedicated to finding a cure for mesothelioma through research funding, public education, and advocacy, about their signature event, Miles for Meso, an annual 5K race and fun run/walk to raise awareness for mesothelioma. A partnership between the foundation and UPMC Cancer Centers and UPCI had just been finalized to establish the Mesothelioma Specialty Care Center, forming a comprehensive mesothelioma

program in Pittsburgh. Although a Pittsburgh Miles for Meso event didn't exist, the foundation saw an opportunity to bring the race to Pittsburgh to continue to raise awareness and funds for the disease.

"Lindsay and her family had such a wonderful experience with UPMC Cancer Centers and her mother's care that they wanted to really do this race in memory of her," says Joy Wheeler, director, The Simmons Mesothelioma Foundation. "We saw this as great opportunity to draw more attention to mesothelioma research and funding in this area."

Lindsay and Katelyn have been working with the foundation, who has also hired a race coordinator, to organize the first Miles for Meso 5K race and fun run/walk in Pittsburgh, which is anticipated to take place in late summer 2012. All proceeds from the event will benefit mesothelioma research and care at UPMC Cancer Centers and UPCI.

"We are ultimately looking to raise money and awareness for mesothelioma, so that other families don't have to go through what we did," said Lindsay. "I could sit back and grieve over this situation, but I feel I can move forward by doing something positive. This disease took our mom at a very young age, and knowing this event is going to happen is a bright spot and has helped to keep our mom in our thoughts."

My sister likes to say that it's our mom who brought all of this together."

Vicki Parada knows all too well the pain caused by mesothelioma. Vicki's husband, Michael, a City of Pittsburgh firefighter, was diagnosed with mesothelioma in September 1999. "I was a nurse at the time, but I had

never heard of mesothelioma," says Vicki. "When I found out about it, it was devastating because at that time treatment for mesothelioma was very limited and outcomes were often poor." Michael was evaluated by Neil A. Christie, MD, a thoracic surgeon in the Department of Cardiothoracic Surgery, Division of Thoracic Surgery.

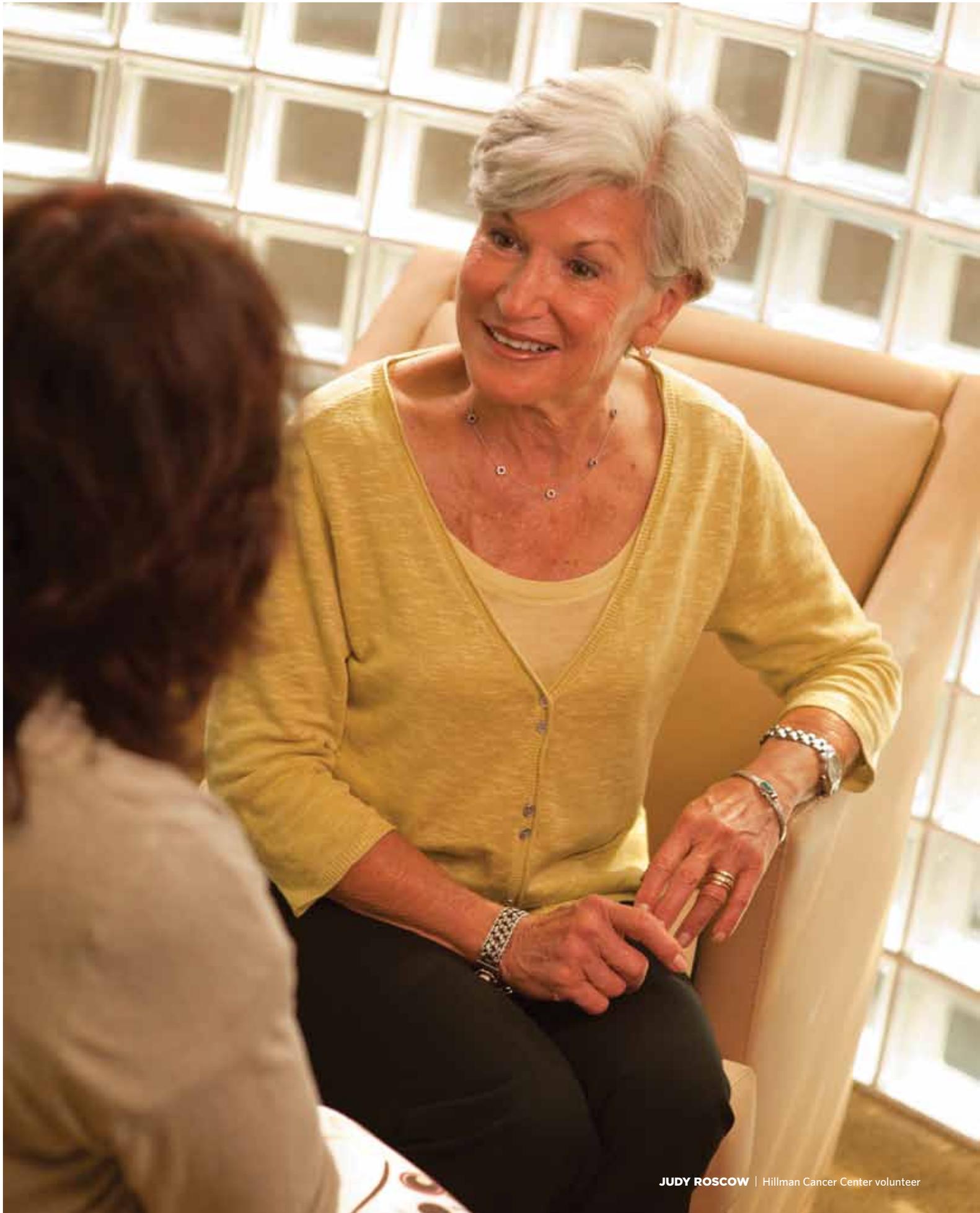
"I believe in my heart that Dr. Christie is the most professional physician I've dealt with in my entire nursing career," says Vicki. "He was very kind, up front, and always professional. We always trusted his judgment, even though we knew what the outcome would be. He worked very hard to help us."

Although Michael was not a candidate for surgery, he received chemotherapy in hopes of slowing the progression of his disease, but ultimately passed away in January 2000.

Since Michael's passing, Vicki has been a proponent of UPMC Cancer Centers' mesothelioma program, and a key partner in raising funds for the program since its very early stages. Less than eight months after she lost her husband, Vicki and her family planned the inaugural Michael J. Parada Walk for Mesothelioma in Schenley Park, with proceeds to benefit the Michael J. Parada Research Fund for Mesothelioma, under the direction of Dr. Christie. They have held the event every August since then.

"While we're thrilled to be able to support mesothelioma care and research, for us, it's more about Michael," says Vicki. "The event is about friends and family just wanting to remember him and to donate in his name because he was such a good person."





JUDY ROSCOW | Hillman Cancer Center volunteer

YOUR CARE. OUR COMMITMENT.

During her recent “Comfort Call” to a cancer patient, Hillman Cancer Center volunteer, Judy Roscow, heard something that made two years of hard work well worth it.

“She told me that her last trip to Hillman was the best thing that had happened to her in the past 30 days,” says Judy, who began treatment for her own cancer in 2002, when the facility first opened.

Along with a multidisciplinary team of employees and other patient volunteers, Judy helps Hillman leadership to identify ways to improve each patient’s access to supportive care services offered at the facility. Led by the Hillman Seamless Patient Care Advisory Committee, a variety of special-focus work teams meet on a regular basis to create new support services and enhance existing ones.

“We do clinical treatment and research very well,” says Susan Frank, RN, MSN, director of Clinical Operations. Indeed, UPMC Cancer Centers is an international leader in cancer treatment, care, and research, in tandem with the University of Pittsburgh Cancer Institute. At the hub of the network, Hillman Cancer Center offers patients easy access to an ever-growing variety of clinical and nonclinical services in a calm, beautiful — but sometimes overwhelming — environment.

“A few years ago, we realized that we needed to improve the way patients ‘navigate’ through our system of nonclinical services,” Susan adds. “We wanted to make it easier for patients to be connected to the right service at the right time.”

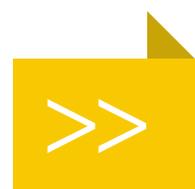
When the Seamless Patient Care Advisory Program was launched in 2009, the initial goal was to develop a simplified model and give patients a “snapshot” of the resources available. After many months of input from patients and staff, they created the Hillman Hospitality Program. Leaders introduced the new model of coordinated care, and continue to reinforce its key benefits, through staff and patient training and printed educational materials.

Guided by the slogan, “Your Care. Our Commitment,” the Hillman Hospitality Program helps to improve quality of life for patients that are undergoing treatment. The program categorizes the services as Patient Navigation Services, Patient and Family Resources, and Supportive Care Services.

Patient Navigation Services include concierge services, coordination of care, courtesy calls, national and international coordination services, new patient follow-up, outreach, primary nurse navigators and destination coordinators, guides, and greeters.

Patient and Family Resources encompass options such as athletic club partnerships, patient and caregiver support groups, connections to community resources, the Gumberg Family Resource Center, patient and family education, patient-focused activities, and valet parking, in addition to a wide variety of Supportive Care services that include the Center for Integrative Medicine, Behavioral Medicine Clinical Service, financial counseling, hair and wig services, nutrition services, pain management and supportive services, palliative care, pastoral care, and patient and family counseling services.

While the range of options is impressive, the heart of the Hillman Hospitality Program is provided by the people surrounding the patient. From clinical staff to volunteers, these individuals “translate” the program to patients struggling to manage the multiple physical, emotional, and logistical demands of cancer treatment.



YOUR CARE. OUR COMMITMENT.



For example, before patients first visit the facility, they receive a call from a patient navigator who provides helpful information about parking, lodging, and what to expect at the first appointment. The patient navigator remains available to assist patients throughout their time in treatment. Upon arrival, all patients are offered valet parking and are greeted in the lobby — by name — by a concierge. Patients are given a tour of the building and escorted to their physician's office. Within 48 hours of their visit or a change in treatment, patients receive a follow-up call from a volunteer, giving them an opportunity to discuss concerns.

When they visit the Gumberg Family Resource Center, patients are relieved to find not only an exceptional volume of educational materials, but nurse educators and patient navigators available to answer questions about cancer treatment. Each patient who visits is given a patient notebook, a large binder where patients can organize the many documents and data, such as medication lists, test results and phone numbers, related to their treatment. The notebooks were created as a result of patient feedback obtained from surveys and focus groups.

This personal touch continues with staff-patient interaction during Supportive Team Rounds. Each day, representatives from leadership and quality assurance, as well as nutritionists, social workers, nurse educators, concierges, and patient coordinators travel to treatment areas across the clinic. They introduce themselves to patients, answer questions and discuss resources that might be helpful for each patient's specific needs. Most importantly, they explain how to access those services. Although these employees follow a structured program of interacting with patients, all staff and volunteers are expected to extend themselves.

"From the front desk staff to the security guards to the maintenance employees, we train everyone to treat patients with high levels of support," Susan says. "We want people to feel there is an entire building of people around them, caring for them."

For the patient receiving Judy Roscow's supportive Comfort Call, and hundreds of others, this goal is being met every day.



COMMUNITY RESOURCES FOR CANCER PATIENTS AND THEIR LOVED ONES

Caring4Cancer

www.caring4cancer.com/go/cancer/basics

Caring4Cancer.com allows patients to connect with a vast knowledge base of information — and network with experts and other cancer patients — from the convenience of their own homes. A resource for comprehensive, web-based research on all aspects and stages of cancer treatment, the site provides timely, oncologist-reviewed information and support.

In addition to research, Caring4Cancer.com allows visitors to use the secure Patient Health Record and Symptom Tracker to document and store information on appointments and test results, view educational videos, subscribe to e-newsletters, and create a personal webpage for journaling, exchanging messages of encouragement, sharing pictures, and more. Caring4Cancer.com is the most used patient education resource for oncology practices.

American Cancer Society

Western Region
320 Bilmar Drive
Pittsburgh, PA 15205
412-919-1100
www.cancer.org
www.relayforlife.org

The American Cancer Society (ACS) works to eliminate cancer as a major health problem through prevention, and diminish suffering from cancer through research, education, advocacy, and service. In western Pennsylvania and across the country, the ACS depends on community volunteers to help with fundraising events, to provide services, assist with educational programs, and help to promote the organization.

One of the organization's key events, the Relay For Life, invites teams of 10 to 15 members to camp out at local high schools and take turns walking the track to raise money. Relay For Life events are held in several locations throughout western Pennsylvania. Individuals who don't wish to walk the track can help on planning committees.

In addition to services and resources offered through UPMC Cancer Centers, there are many community resources available to cancer patients and their loved ones, including the four described here.



PINK STEEL DRAGON BOAT RACING TEAM

Gilda's Club Western Pennsylvania

2816 Smallman St.

Pittsburgh, PA 15222

412-338-1919

www.gildasclubwesternpa.org

It is no surprise that the organization named for comedian Gilda Radner offers a creative, fun mix of support and social activities. Gilda's Club Western Pennsylvania offers networking and support groups, workshops, education, and social activities. All programs and events are free of charge and available to everyone living with cancer — men, women, teens, and children — and their families and friends.

Just a sampling includes a family/friends support group, teen talk group, networking groups for members with a common diagnosis or specific interest, lectures on managing side effects and cancer in the workplace, painting, jewelry making, cooking and nutrition, karaoke, dancing, potluck parties, game night, and "Noogieland," created for children, teens, and families who are living with cancer.

Pink Steel Dragon Boat Racing Team

Fox Chapel Marine

1366 Old Freeport Road

Pittsburgh, PA 15238

www.steelcitydragons.org

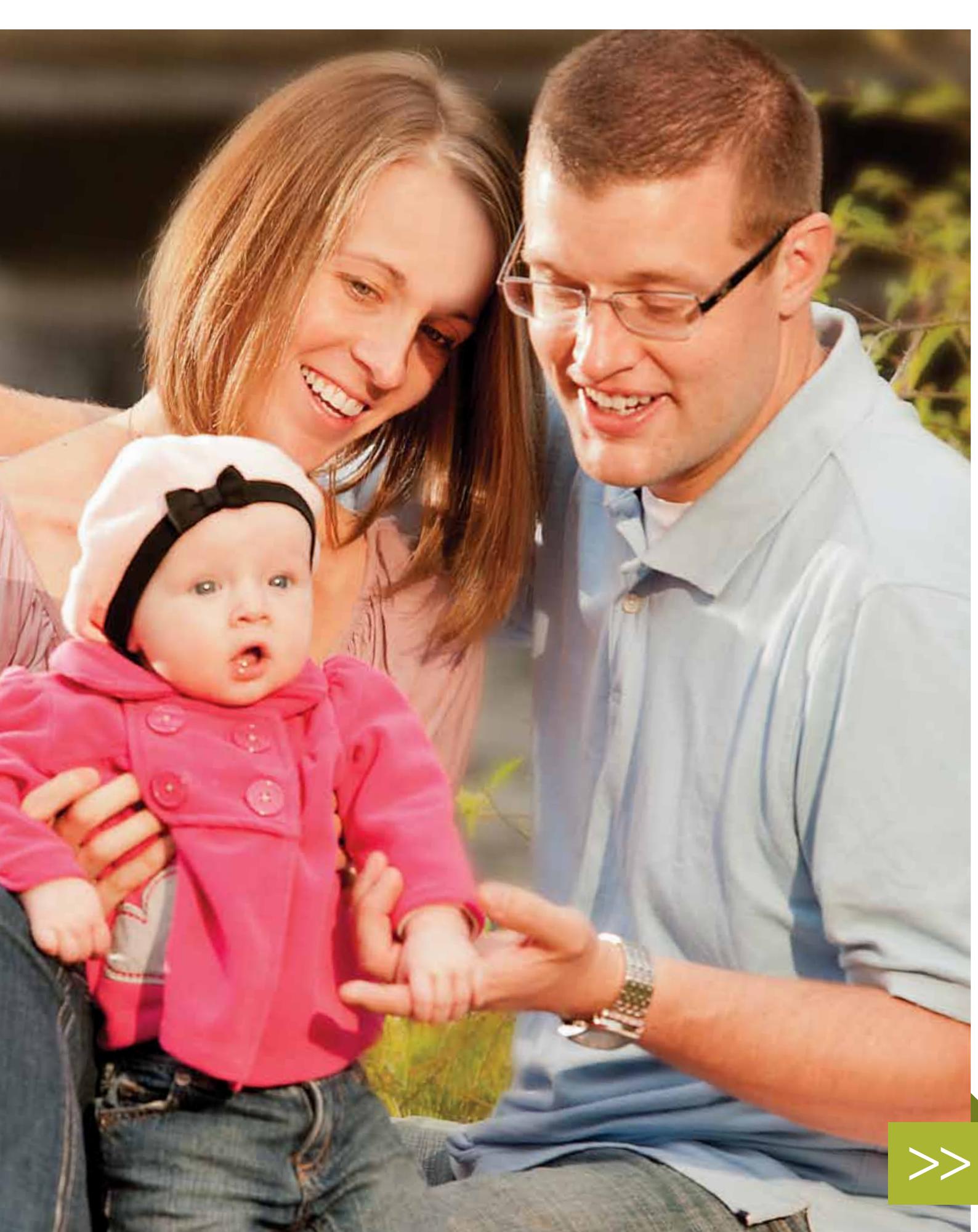
When these breast cancer survivors say, "We're all in the same boat," they mean it. As members of Pink Steel, a local Dragon Boat Racing Team, these women paddle 20-person boats on Pittsburgh's rivers — and in races around the East Coast and Canada.

Any breast cancer patient or survivor may join the team, regardless of athletic ability or age; members' ages span from their 30s into their 70s. Those who wish to race must practice three times each week for the April to September season. Many join to regain control of their bodies, have fun with other survivors, and win races, not only against other breast cancer survivor teams, but against elite women athletes.

ADAM FREDERICK with wife SARAH and daughter GRACE

**“TO HAVE UPMC IN MY
BACK YARD WAS
A HUGE BLESSING...”**

**UPMC CANCER CENTERS:
THE EVOLUTION OF A REGIONAL ASSET**



UPMC CANCER CENTERS: THE EVOLUTION OF A REGIONAL ASSET



If a region's health is measured not only by its quality of life, but also by the economic impact of institutions that keep its people healthy, western Pennsylvania is flourishing.



And contributing on both fronts is UPMC Cancer Centers, as it generates continuous advances in oncology, and translates them into effective, repeatable, home-town-accessible therapies.

Cancer survivor Adam Frederick is a witness. "To have UPMC in my back yard was a huge blessing," he says. "In 2007, I was diagnosed with Ewing's sarcoma. I underwent treatment and surgery at [the Mary Hillman Jennings Radiation Oncology Center at] UPMC Shadyside and Hillman Cancer Center."

He was living in Gibsonia, Pa., at the time of the diagnosis. "It was fantastic to be just 20 minutes from the hospital," he says. "When you're undergoing treatments and not feeling well, you don't want to spend four or five hours in a car." Returned to good health, he celebrated both his first wedding anniversary and the birth of his first child this spring.

"It's not just about me, though," Adam says. "As a financial advisor with PNC Investments, I'm aware of the health care industry, and I know what an institution like this contributes to the economy."

Developing Community Relationships

That contribution is substantial. "Every million dollars of research funding this institution receives makes possible 30 additional high-level jobs," says Sy M. Holzer, chairman of the University of Pittsburgh Cancer Institute Council. He calls the Cancer Centers "a unique economic engine."

"We owe our position to three historical developments," explains Peter G. Ellis, MD, who directs the UPMC Cancer Centers Medical Oncology Network. "One is our widespread network. The second is the extraordinary quality of our basic and translational research. The third is an evidence-based treatment approach called Clinical Pathways."

"Almost everyone knows about our research, thanks to Pittsburgh's tradition of medical discoveries," continues Stanley M. Marks, MD, UPMC Cancer Centers' chief medical officer. "But until you're a patient, or a member of a patient's family, the effects of the other two factors are less apparent."

Since 2000, the UPMC Cancer Centers' network has grown to include more than 180 medical, surgical, and radiation oncologists in more than 30 locations across western Pennsylvania and eastern Ohio. Having so many locations is convenient for patients, and increases the chance that a patient will seek the care they need, and local internists will stay engaged.

"I get to know patients and their families," says Edgardo Lob, MD, medical oncologist at UPMC Cancer Center, Greenville. "I run into them at local restaurants or sporting events. Former patients refer new patients; people come in and say, 'My neighbor goes to you.'"

REGIONAL LOCATIONS*

Hillman Cancer Center
(medical oncology services)
Mary Hillman Jennings Radiation
Oncology Center

Radiation Oncology Centers
UPMC/Jameson Cancer Center
UPMC/HVHS Cancer Center
at Heritage Valley Beaver
UPMC/HVHS Cancer Center
at UPMC West
UPMC/St. Clair Hospital
Cancer Center
Radiation Oncology Center
at Jefferson Regional
Medical Center
UPMC and The Washington
Hospital Cancer Center
Robert E. Eberly Pavilion

Medical Oncology Centers
UPMC Cancer Center, New Castle
UPMC Cancer Center, Beaver
UPMC Cancer Center, Steubenville
UPMC Cancer Center,
Sewickley Medical Oncology
UPMC Cancer Center,
Upper St. Clair
UPMC Cancer Center, Jefferson
UPMC Cancer Center, Washington
Arnold Palmer Pavilion
at Oakbrook Commons
Arnold Palmer Pavilion
at Mt. Pleasant

UPMC Cancer Center, Uniontown
UPMC Cancer Center, Windber
UPMC Cancer Center
at UPMC Mercy
UPMC Cancer Center, Indiana
UPMC Cancer Center, Greenville
UPMC Cancer Center,
400 Oxford Drive

**Centers that provide radiation
and medical oncology services**
UPMC Cancer Center
at UPMC Horizon
The Regional Cancer Center, Erie
UPMC Cancer Center
at UPMC Passavant
UPMC Cancer Center,
Natrona Heights
UPMC Cancer Center
at UPMC McKeesport
Arnold Palmer Pavilion
at Mountain View Medical Park
John P. Murtha Regional
Cancer Center
UPMC Cancer Center
at UPMC St. Margaret
UPMC Cancer Center
at Magee-Womens Hospital
of UPMC
UPMC Cancer Center
at UPMC Northwest

*As of September 2011

Encouraging Best Practices

But geography is nothing without parity. “At UPMC St. Margaret, or Steubenville, or Windber, you’ll get the same care that you’ll get at our flagship location in Shadyside,” says Dr. Ellis. “The reason is Clinical Pathways — an outcome-based treatment system that combines the latest clinical trials with the most effective therapies.”

Pathways evolved by consensus, says Dwight Heron, MD, FACRO, the chairman of radiation oncology at UPMC Shadyside. “As our service network developed in the early 2000s, we wondered, ‘How can we verify that every institution provides what we call “UPMC Cancer Centers care?””

“All the care was good, but variation was considerable. One practitioner might treat a disease very differently from a practitioner at another location. So we assembled our clinical and academic experts and said, ‘You know the literature. You see the patients. Define the stages of disease, and then define how to treat them based on the evidence.’

“They began by identifying the treatments associated with the best outcome. Where two treatments achieved similar results, they designated the least toxic. And if there was no difference in toxicity,” he says, “they focused on cost-effectiveness.”

“Because it was peer-based, Pathways got rapid buy-in. It grew into a system that engages every physician, measures effectiveness, and promotes continuous improvement,” Dr. Ellis says.

Stimulation through Innovation

“We are translating discoveries to clinical practice through consistent, widely available care. The approach is proven, and its potential is unlimited,” says UPCI and UPMC Cancer Centers director Nancy Davidson, MD. “We’re poised to transform western Pennsylvania into a globally recognized source of innovation.

“Our success is closely tied to the Pittsburgh community, and to supporters from beyond the western Pennsylvania horizon. These allies have been instrumental in laying our foundation — as they will be in building a future without cancer,” she says.

“If the question is how UPMC Cancer Centers makes western Pennsylvania a better place, we have a clear answer: Some of the most productive research in the world has translated to actual treatments for actual patients, in a system that maximizes access, measures effectiveness, and attracts both talent and investment.”



“I GET TO KNOW PATIENTS AND THEIR FAMILIES...”

EDGARDO LOB, MD | UPMC Cancer Center, Greenville

A man in a dark suit and tie stands with his arms crossed in front of a modern building. In the background, a bronze statue of a woman carrying a basket is visible. The scene is lit with warm, golden light, suggesting late afternoon or early morning.

PUSHING THE BOUNDARIES OF WOMEN'S CANCER RESEARCH

**INNOVATIVE RESEARCH FOR
NOVEL TREATMENT POSSIBILITIES**

ROBERT EDWARDS, MD, STEFFI OESTERREICH, PhD, and ADRIAN LEE, PhD



PUSHING THE BOUNDARIES OF WOMEN'S CANCER RESEARCH



An innovative collaboration of the University of Pittsburgh Cancer Institute and the Magee-Womens Research Institute, the newly formed Women's Cancer Research Center (WCRC)

is a catalyst for research and clinical application, with a mission to reduce the incidence of and death from women's cancers. Offering a programmatic approach by basic and clinical scientists, medical oncologists, surgeons, cancer biologists, and epidemiologists, among many others, the Center is translating novel discoveries into improved patient care, while educating the next generation of researchers and physicians.



The WCRC Center is co-directed by newly recruited research scientist, Adrian Lee, PhD, well-known for his work targeting growth-factor pathways as a potential new approach to breast cancer treatment, and Robert Edwards,

MD, a gynecologic oncology specialist at Magee-Womens Hospital of UPMC with expertise in clinical trials. Also new to the University of Pittsburgh Cancer Institute (UPCI), Steffi Oesterreich, PhD, an accomplished cancer researcher and expert in estrogen receptor biology and action, is director of education.

"The WCRC brings diverse groups of clinicians and basic scientists together to work in concert to translate research into clinical practice," says Dr. Lee. "In science and treatment, the whole is truly greater than the sum of its parts. WCRC is the force that drives that collaboration."

By facilitating interaction among researchers at UPCI and clinicians primarily located at Magee, research is focused on all women's cancers, including breast and gynecologic cancers, a nationally-unique focus, as similar centers focus solely on one cancer. Education of graduate students and post-doctoral and clinical fellows — the next generation of researchers and physicians — also is an important component of the center.

The Center is also developing and testing new diagnostic, predictive, and prognostic biomarkers, and new targeted therapies. Cancer initiation and progression, as well as molecular profiling of early disease and progression, are primary areas of study, as is hormone receptor action and resistance to therapy.

Focusing on innovative research for novel treatment possibilities

WCRC researchers representing surgery, biology, radiology, and biostatistics perform research in multiple locations in Shadyside and Oakland. Primary laboratory research is conducted at the Magee-Womens Research Institute, while patient-based research occurs at Magee, Hillman Cancer Center, and other UPMC and University of Pittsburgh facilities. A major focus of the WCRC is to translate research in genetics and epigenetics — changes in DNA and other mechanisms, such as cell division — into knowledge that can be applied to treatment and advance diagnostic testing, as well as novel therapies.

Scientists at UPCI are working on the fundamentals of DNA repair at the molecular level. They are looking at cancer cells to understand how DNA repair works and what goes wrong to cause cancer. Inhibitors of DNA repair are being tested in clinical trials. In the past, researchers and clinicians in this field worked entirely apart. "What the WCRC does is bring these two groups together," says Dr. Lee. "Not only are they working together, but they are preparing to submit grant proposals together." As he describes it, "We're the glue in the middle, speeding the process. It involves basic research, clinicians to collect tissue, tissue handlers, pathologists to study tissue, data bases."

The WCRC also is pursuing very exciting research into the role of stress in cancer. Research shows that stress induces hormones that inhibit the effect of chemotherapy. This has major implications for women undergoing treatment. Better understanding of these mechanisms can lead to new interventions and strategies for treatment.

continued on page 22

The WCRC Center showcased its current research at its first annual retreat in May 2011. The retreat highlighted progress in breast cancer stem cell research. Traditionally, every cell of a tumor is treated the same in a one-size-fits-all approach, but current research points in a different direction. Researchers are isolating cell populations to obtain new understanding of their differences, and working closely with clinicians to obtain tissue samples. PUMA® recently awarded funds to the WCRC through its Project Pink program, which were used toward the purchase of the technology that allows the scientists to facilitate the investigation.

Another area highlighted and of particular interest is genetics. Just as every person has different fingerprints, the same is true for tumors. Research aimed at understanding changes in DNA and cell mechanisms has the potential to yield individualized therapy. “Molecular analysis is the key to developing personalized genomic medicine by which every tumor has a different genetic fingerprint,” says Dr. Lee. “The ability to sequence DNA is evolving dramatically. A revolution in understanding is opening in the genetics and epigenetics of cancer.”

Fostering collaboration through education

As part of the WCRC’s focus on education, weekly meetings are held as forums for sharing data on major clinical trials and basic science studies. Monthly meetings of the center’s Journal Club bring together clinicians, basic scientists, translational scientists, pathologists, and others to discuss key research papers in their fields. These multidisciplinary forums provide for the exchange of ideas from different perspectives for collaborative interpretations of the most current research.

This coalescence of research and treatment is brought home at the new Survivorship Clinic at Magee. As many more women are surviving cancers and contending with physical conditions such as lymphedema, as well as psychological issues, the new clinic brings together the latest research and treatment in survivorship for these women.

The coupling of basic science and clinical research is the newest model for understanding and advancing treatment of women’s cancer. The WCRC is a new driving force for this model with significant implications for research and treatment in modern medicine.

For more information about the Women’s Cancer Research Center, visit www.upci.upmc.edu/wcrc or call 412-641-7557.



“THE WCRC BRINGS DIVERSE GROUPS OF CLINICIANS AND BASIC SCIENTISTS TOGETHER...”

ADRIAN LEE, PhD | Women’s Cancer Research Center



A FUTURE WITHOUT CANCER

2010: A YEAR TO CELEBRATE

The University of Pittsburgh Cancer Institute and UPMC Cancer Centers closes their fundraising campaign.

In 2010, the University of Pittsburgh Cancer Institute (UPCI) and UPMC Cancer Centers completed a five-year, \$100 million fundraising campaign, thanks in part to a \$3 million gift from the Mario Lemieux Foundation, which will be used to establish the Mario Lemieux Center for Blood Cancers at Hillman Cancer Center. The philanthropic funds raised were matched by UPMC, for a total of \$200 million contributed to the fundraising campaign. The campaign was launched five years ago with a \$20 million gift from the Henry L. Hillman Foundation and the Hillman Foundation, which created the Hillman Fellows Program for Innovative Cancer Research. The campaign funds have been and will continue to be used to recruit physicians and researchers, invest in infrastructure, and expand key areas of cancer research.

In addition to the Hillman Fellows Program and the Mario Lemieux Center for Blood Diseases, several endowed chairs and endowed funds have been established during this campaign, including the Arnold Palmer Endowed Chair in Cancer Prevention, the Thomas and Sandra Usher Endowed Chair in Melanoma, the Jane and Carl Citron Chair in Colon Cancer, and the Stanley M. Marks, MD, Endowed Research Fund. Critical research initiatives also have been accelerated during this campaign, including efforts to identify nutritional and dietary methods of combating cancer, developing new treatments for melanoma and mesothelioma, and expanding early detection efforts by identifying specific proteins in the blood responsible for cancer development and recurrence.

On Nov. 30, 2010, 750 of the region's most influential community and civic leaders and supporters gathered at the Monroeville Convention Center for the 2010 Hillman Cancer Center Gala to celebrate the advanced cancer research and patient care programs at Hillman Cancer Center.

The 2010 theme, **Celebrate! A Future Without Cancer**, celebrated 25 years of success in advancing cancer research and care — a nod to the 25th anniversary of the University of Pittsburgh Cancer Institute. Guests also glimpsed the future of cancer research and care, with the night paying tribute to the outstanding scientists and

clinicians currently housed at Hillman Cancer Center who stand on the front lines as we continue to battle this terrible disease.

Guests were treated to a performance by Gladys Knight and dinner prepared by UPMC executive chef Brad Kelly and his team. Stephanie Samolovitch, a cancer survivor in her mid-twenties, gave a moving account of her experience as a patient at UPMC Cancer Centers. David Conrad served as master of ceremonies for the evening. Gala leadership and supporters includes honorary chairs Elsie and Henry Hillman, event co-chairs and Susan and Steve McGalla, and Vanessa and David Morehouse. PNC was the Presenting Sponsor.

ENDOWED CHAIRS

A number of endowed chairs support the mission of UPMC Cancer Centers and the University of Pittsburgh Cancer Institute. The income generated from endowed chairs enables our scientists, clinicians, and their teams to strengthen established areas of expertise, expand new initiatives, and forge new frontiers in science that benefit our patients and their families now and into the future.

- The Claude Worthington Benedum Endowed Chair in Radiation Oncology
- The Jane and Carl Citron Endowed Chair in Colon Cancer
- The Richard M. Cyert Endowed Chair in Molecular Oncology
- The Gregory T.H. Davies Endowed Chair in Brain Tumor Research and Physician Education
- The Lawrence Ellis Endowed Chair in Hematology and Oncology
- The Bernard Fisher Endowed Chair in Surgical Oncology
- The Giant Eagle Foundation Endowed Chair in Cancer Genetics
- The Hillman Endowed Chair in Oncology
- The Arnold Palmer Endowed Chair in Cancer Prevention
- The Sampson Family Endowed Chair in Thoracic Surgical Oncology
- The Sandra and Thomas Usher Endowed Chair in Melanoma

- UPMC Endowed Chair in Head and Neck Cancer Surgical Research
- UPMC Endowed Chair in Lung Cancer Research

VISIONARY SOCIETY

These dedicated partners have given or helped to raise a cumulative total of \$1 million or more in support of cancer research and care.

- American Cancer Society, Inc.
- Anonymous
- Family and Friends of Nathan S. Arenson*
- Claude Worthington Benedum Foundation
- DSF Charitable Foundation
- Flight Attendant Medical Research Institute
- The Giant Eagle Foundation
- Theresa Heinz and The Heinz Endowments
- Harriett L. and Ronald B. Herberman, MD
- Highmark Foundation
- Elsie H. and Henry L. Hillman
- Henry L. Hillman Foundation
- Hillman Foundation
- Family and Friends of Albert P. Knowles*
- New Era Cap Charitable Foundation and Family and Friends of David C. Koch*
- Mario Lemieux Foundation
- The Leukemia and Lymphoma Society
- Richard King Mellon Foundation
- Susan G. Komen Breast Cancer Foundation
- N.S.A.B.P. Foundation, Inc.
- Arnold D. Palmer 2003 Charitable Trust

- Mark E. Pasquerilla
- PNC Financial Services Group and PNC Foundation
- The Pittsburgh Foundation
- Myles D. Sampson* and Family
- Sanofi-Aventis
- The David S. and Karen A. Shapira Foundation
- Sandra and Thomas Usher
- Debi and Harold W. Wheeler III
- Wheeler Family Charitable Trust
- * deceased

FAMILY LEGACY SOCIETY

Often, a personal experience with cancer or the loss of a loved one to the disease spurs a family or others to establish funds that honor a patient or caregiver through support of continuing efforts to better detect, prevent, and treat cancer.

- Suzanne Hill Alfano Endowment for Lung Cancer Research
- Nathan S. Arenson Fund for Pancreatic Cancer Research
- Adriane R. Aul Memorial Fund
- The Keith F. Barket Mesothelioma Research Fund
- Beckwith Family Foundation Endowed Research Scholars Program
- The Heidi Browning Endowed Ovarian Cancer Research Scholars Fund
- Ruth C. Brufsky Fund for Clinical Research on Pancreatic Cancer

- Patti Burns Fund
- Al Copeland Memorial Fund for Merkel Cell Carcinoma Research
- Dr. Joan G. Gaines Breast Cancer Research Fund
- Sadie Gerson Distinguished Visiting Scholar Program
- Stuart Goodman Brain Cancer Memorial Fund
- Peter E. Hackney Fund for Pancreatic Cancer Research
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- Mario Lemieux Patient Care and Cancer Research Fund
- Scott Limbach Entrepreneurial Center
- Stanley M. Marks, MD Endowed Research Fund
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- James A. Mollica Jr. Research Endowment Fund



2010: A YEAR TO CELEBRATE

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PLANNED GIVING

UPMC Cancer Centers and the University of Pittsburgh Cancer Institute gratefully acknowledge planned gifts from the following individuals:

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 Helen and Donald E. Chrise*
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 Alfred A. Dybeck
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 Sally E. and Peter S. Kay
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 Susan G. and Barney C. Guttman
 Harriett L. and Ronald B. Herberman, MD
 Bonnie W. and Thomas L. VanKirk, Esq.
 Debi and Harold W. Wheeler III
 *deceased

CIRCLE OF HOPE

The Circle of Hope honors individuals, family foundations, and privately held companies that make contributions of \$10,000 or more in a calendar year. This list recognizes those who were members in 2010 and 2011 as of August 9, 2011.

Cheryl and Bruce Americus
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 Ayers Foundation
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ANNUAL GIVING

The Annual Fund provides vital support for the operation of clinical programs, basic and clinical research programs, recruitment of new physicians and scientists, seed money, medical and patient education, and outreach programs. Those listed have made gifts at the following levels during fiscal year 2011 (July 1, 2010 through June 30, 2011).

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NEWS BRIEFS

THE MARIO LEMIEUX CENTER FOR BLOOD CANCERS

UPMC leadership is proud to announce that plans are in progress for The Mario Lemieux Center for Blood Cancers. This new center will allow us to capitalize on our three pillars of success, which include focusing on patient centered accountable care, embracing SMART technology (self-monitoring analysis and reporting technology), and practicing good science. It is being funded in part by a \$3 million gift from the Mario Lemieux Foundation, which also helped the University of Pittsburgh Cancer Institute and UPMC Cancer Centers to conclude its five-year, \$100 million capital campaign.

The new center will be built in the shell space on the fourth floor of Hillman Cancer Center. The 24,000 square-foot

facility will offer comprehensive diagnostic services, individually designed treatment plans, and long-term follow-up services to patients with leukemia, lymphoma, Hodgkin's disease, non-Hodgkin's lymphoma, multiple myeloma, and other blood malignancies.

The Lemieux Center for Blood Cancers will feature SMART technologies in order to deliver more effective, safe, efficient, and individualized care, such as patient touch screens, patient tracking systems, and videoconferencing, all aimed at enhancing patient-centered and individualized care in an increasingly complex treatment environment.

Construction of the new facility is expected to be complete in late 2012.

Patient Assistance Funds at UPMC Cancer Centers reach a \$1 million milestone

The UPMC Cancer Centers Patient Assistance Fund and Oncology Hematology Associates (OHA) Endowed Patient Assistance Fund have collectively reached \$1 million dollars through a combination of donations from individuals, foundations, and community-based events.

The UPMC Cancer Centers Patient Assistance Fund was created in 2005 to help cancer patients overcome some of the financial barriers associated with completing their treatment. The fund was designed to provide partial, short-term assistance to patients facing financial hardship as a result of their illness. The OHA Endowed Patient Assistance Fund was initiated by OHA, an affiliated oncology group of UPMC Cancer Centers. The endowment exists to ensure that the same help will continue to be available to patients in need in perpetuity.

As a result of generous gifts from more than 1,000 donors, the Patient Assistance and OHA funds have, to date, helped over 2,068 patients in need.

Cancer LiveWell Survivorship Program Expands

Magee-Womens Hospital of UPMC recognized a need to support cancer survivors following their treatments. In October 2009, it implemented the LiveWell Survivorship Program and began with a single survivor workshop. The program continued to expand as it became more popular with survivors, and now includes clinical services, workshops, education series, support programs, cooking classes, and various other supportive services. Since its inception, the LiveWell Survivorship Center has scheduled more than 170 patient visits, and has welcomed more than 700 survivors to its workshops.

As a result of Magee's program success, in July 2011, the LiveWell Survivorship Program at Hillman Cancer Center, which serves both male and female survivors, was instituted. The program is designed to address individual questions and medical issues so survivors can live well-rounded, productive, and fulfilling lives after their cancer diagnosis and treatment. It provides an ideal opportunity for cancer survivors or their health care providers to seek specialized expertise on important cancer-survivor-related topics.

Both programs now offer medical oncologists, nurse practitioners, physician assistants,

psychologists, psychiatrists, physical therapists, and dietitians for consultative and follow-up care to all cancer survivors who have no metastatic disease and have completed their therapies, or who undergo long-term cancer therapy.

The program's providers maintain close contact with the survivor's current health care providers to assure continuity of care. Cancer survivors also have access to comprehensive and relevant research studies.

UPMC Cancer Centers expands its network

In early 2011, UPMC Cancer Centers opened a new radiation oncology facility at UPMC Cancer Center at UPMC Horizon to bring quality cancer care close to home for residents of Mercer County. This innovative 7,135-square-foot facility features a variety of advanced imaging capabilities, including intensity-modulated radiation therapy (IMRT), image-guided radiation therapy (IGRT), respiratory gating, RapidArc®, and brachytherapy. This facility joined the existing Mercer County medical oncology practices at UPMC Cancer Center at UPMC Horizon and UPMC Cancer Center, Greenville, to allow Mercer County residents, and those in surrounding areas to receive high-quality, conveniently-located cancer care.

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A Comprehensive Cancer
Center Designated by the
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The University of Pittsburgh Cancer Institute, working in conjunction with UPMC Cancer Centers, UPMC's clinical care delivery network, is western Pennsylvania's only National Cancer Institute (NCI)-designated Comprehensive Cancer Center, reflecting the highest level of recognition by NCI.

Annual giving donors listed are from fiscal year 2011.

Circle of Hope donors listed are from calendar years 2010 and 2011 as of August 9, 2011.

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UPMC Cancer Centers offers cancer patients exceptional care and innovative treatments close to home. Working in partnership with the University of Pittsburgh Cancer Institute, western Pennsylvania's only National Cancer Institute-designated Comprehensive Cancer Center, UPMC Cancer Centers provides the latest advances in cancer prevention, detection, diagnosis, and treatment at community-based locations throughout the region. The University of Pittsburgh Cancer Institute comprises the academic and research activities for cancer at the University of Pittsburgh and UPMC.

For information about supporting cancer research efforts and patient care at UPMC Cancer Centers and the University of Pittsburgh Cancer Institute, contact us at **412-623-4700**.



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