

Kimmel Cancer Center at Jefferson

NCI-designated

MAGAZINE

SPRING 2006

‘Invincible? That’s Me. Incredible? That’s Jeff.’

Vince Papale beat the odds once by becoming the oldest rookie in NFL history. He eventually became the Eagles’ team captain and played three seasons with the team until he suffered a career-ending shoulder injury.

After Vince retired as a player, he figures he beat the odds a second time. He credits his wife for urging him to take the tests that spotted his



The Papale family.

colon cancer early and his Jefferson team of colon cancer specialists with saving his life.

When he was diagnosed with colorectal cancer, he turned to neighbor Anthony Infantolino, MD, a Jeff gastroenterologist, for support and to Jeff colorectal surgeon Scott D. Goldstein, MD, for treatment. Dr. Infantolino became Vince and his family’s sounding board throughout the experience.

Cancer-free for three years, Vince is enjoying his role as a patient spokesperson for Jeff’s colorectal cancer awareness ad campaign. He’s living proof of the vital importance of early detection.

Today, gastroenterologists and radiologists at the Kimmel Cancer Center at Jefferson are combining two sophisticated technologies – ultrasound and endoscopy – to improve cancer staging for gastrointestinal and rectal cancers.

This fall, Vince’s inspirational life story will be the subject of a forthcoming book and a major motion picture from Disney.

From the Director

Richard G. Pestell, MB, BS, MD, PhD, FRACP



Dear Friends:

I am very pleased to introduce this first issue of the *Kimmel Cancer Center at Jefferson Magazine*, a quarterly bulletin that will keep you

up-to-date on the exciting advances taking place at the Kimmel Cancer Center, our National Cancer Institute-designated Cancer Center.

Since my arrival here in December 2005, I have marveled at the scientific and clinical talent of the entire Kimmel Cancer Center team. Working shoulder-to-shoulder, our researchers and clinicians are committed to ensuring that the Center continues to lead the nation in cancer treatment and research. In this issue, we highlight some of the talented clinicians and researchers recently recruited to Jefferson, the new Jefferson Breast Care Center, and we celebrate a 10-year record in the multidisciplinary Genitourinary Cancer Program led by Leonard G. Gomella, MD. With 20 new faculty and their laboratories, and a 50 percent increase in NCI grant funding since December, the Kimmel Cancer Center is experiencing unprecedented growth.

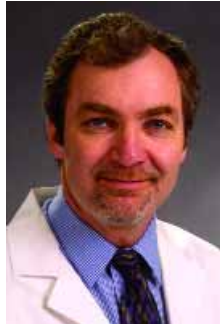
Through the *Kimmel Cancer Center at Jefferson Magazine* you will learn how this team of cancer specialists, cited in “Best Doctors in America,” delivers breakthrough treatment with compassion and with the support of state-of-the-art technology. We’ll share the latest news on Jefferson’s expanding clinical programs in cancer diagnosis and treatment, basic cancer biology research, and translational

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Clinical Director's Views



The Kimmel Cancer Center at Jefferson, a center of excellence in cancer treatment and research, receives major funding from the National Cancer

Institute and the American Cancer Society. Our patients benefit from our research and clinical trials in breast, brain, cervical, colorectal, gastrointestinal, head and neck, blood, ovarian, prostate, skin, and lung cancer.

In January 2006, I co-chaired the Scientific Leadership Council in Lung

Cancer meeting. It generated frank discussion on issues ranging from the stigma of lung cancer to the pace and funding of research. The participants agreed on the need for a collective effort – by industry, advocacy organizations, cooperative groups, and government – to change the perception that lung cancer is untreatable and to encourage patients to explore cancer clinical trials as a treatment option.

I am very proud that Jefferson leads the way in combating lung cancer and getting the word out about lung cancer treatment. Moreover, as part of the Jefferson Cancer Network, our

patients have access to the latest developments in cancer research, technology, clinical trials and treatment at all the member hospitals.

The *Kimmel Cancer Center at Jefferson Magazine* is one more way we will spread the good news that Jefferson is the right choice for patients who require oncology services.

Walter J. Curran Jr., MD

Clinical Director

Kimmel Cancer Center at Jefferson

LUNG CANCER CLINICAL TRIALS

- Radiation oncologist **Mitchell Machtay, MD**, Vice Chair of Radiation Oncology and Director of the department's clinical research, leads a multidisciplinary team of investigators in a study being conducted only at Jefferson. It seeks to determine why using a chemotherapy combination of pemetrexed and carboplatin with radiation is a better tolerated treatment combination for patients who have Stage III non-small cell lung cancer. While other chemotherapy and radiation combination therapies require a reduced dose of chemotherapy, this unique combination maximizes benefits to the patient by allowing a full dose of chemotherapy to be used in conjunction with radiation therapy without causing excessive toxicity.
- Radiation oncologist **Maria Werner-Wasik, MD**, is leading a Phase I study of a high-tech image-guided therapy called "hypofractionated radiotherapy in a stereotactic body

frame," which allows larger doses of radiation therapy to be administered in a more targeted manner. This lung cancer treatment might be beneficial for patients who are not candidates for surgery. Patients who qualify receive a biologic drug, Iressa, in pill form designed to make their tumors more sensitive to radiation and complete their radiation therapy course in two to three weeks rather than six weeks.

Dr. Werner-Wasik is also the overall chair of a cooperative group trial supported by five national groups comparing chemotherapy and surgery to chemotherapy, radiotherapy, and surgery to treat node-positive non-small cell lung cancer.

In an academic medical center such as Jefferson, patients benefit from multidisciplinary study of the value of new technology. By taking responsibility for quantifying the new tools through trial, we are able to offer our patients leading-edge treatment often sooner than it would be available elsewhere.

Jefferson Cancer Network

The Kimmel Cancer Center at Jefferson, an NCI-designated clinical cancer center, conducts approximately 100 to 120 clinical trials each year aimed at prevention and treatment of cancer. The center is the cornerstone of the Jefferson Cancer Network, a consortium of hospitals in the region dedicated to improving cancer care and clinical research.

The Jefferson Cancer Network is operated by Thomas Jefferson University and Thomas Jefferson University Hospital and was established to provide patients in its member hospitals access to the latest research in cancer research, technology and treatment.

The Jefferson Cancer Network established the Jefferson OncologyGroup, a cooperative program to enhance clinical and translational cancer research, including clinical trial development.

Research Director's Views



As the Kimmel Cancer Center at Jefferson's Research Director, I am pleased to lead a team of dedicated researchers working to

unravel cancer's mysteries and to translate their research discoveries quickly into treatments benefiting Jefferson's patients as well as patients with cancer worldwide.

Our Genetics and Molecular Biology Program is composed entirely of National Institutes of Health (NIH)-

funded investigators with interests in the basic processes involved in the development and maintenance of solid tumors and hematological malignancies.

The program's goal is to coordinate fundamental studies on the genes and associated molecular processes involved in causing tumors and to integrate them with clinical translational programs to benefit patients.

Our basic research on the genetics and molecular biology of these processes has led to a new understanding of the process by which normal cells are transformed into cancer cells and to recognize that there is a connection

between the development of certain types of cancer and the role of cancer genes in normal processes and viral infections. This understanding has resulted in the development of new clinical protocols.

I am delighted to have the *Kimmel Cancer Center at Jefferson Magazine* as a regular venue to report our research breakthroughs and translational successes.

Bruno Calabretta, PhD
Research Director
Kimmel Cancer Center at Jefferson

VIEWS

New Members of the Cancer Team

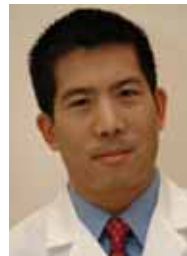


Preeminent pancreatic cancer surgeon **Charles J. Yeo, MD**, joined Jefferson in October 2005 and is a valued member of the Kimmel Cancer

Center at Jefferson team. The new Samuel D. Gross Professor and Chair of Surgery at Jefferson Medical College of Thomas Jefferson University and at Thomas Jefferson University Hospital. Dr. Yeo has established a new Division of Surgical Research at Jefferson.

Dr. Yeo comes to Jefferson from Johns Hopkins Hospital where he was Chief of the Division of General and Gastrointestinal Surgery and Professor of Surgery and Oncology. An internationally known pancreatic cancer specialist, he has performed more than 650 Whipple surgical procedures to remove pancreatic tumors. He has lectured and taught nationally and internationally on the treatment of pancreatic diseases. Dr. Yeo graduated

summa cum laude from Princeton University in 1975 and received his MD in 1979 from The Johns Hopkins University School of Medicine.



In February 2006, **Andrew A. Quong, PhD**, joined the Department of Cancer Biology at the Kimmel Cancer Center at Jefferson.

Dr. Quong specializes in Nanotechnology and Systems Biology. Before joining the Kimmel Cancer Center, Dr. Quong was Associate Professor of Oncology and Physics and Division Director of the Department of Oncology, Nanotechnology, and Integrative Cancer Biology at Georgetown University. He had also worked as Deputy Director, Biosecurity and Nanoscience Laboratory at the Lawrence Livermore National Laboratory in California, and as a Scientific Capabilities Leader in

Livermore's Computational System Biology program. Dr. Quong is a 1991 graduate of the University of California, Irvine.



In 2005, Thomson Scientific ranked **Michael P. Lisanti, MD, PhD**, 15th worldwide in its Top 100 Most-Cited Researchers in

Biochemistry and Biology. Dr. Lisanti, who joined the Kimmel Cancer Center at Jefferson as a Professor in the Department of Cancer Biology in February 2006, was Professor of Pharmacology and Internal Medicine, Division of Endocrinology, at Albert Einstein College of Medicine in the Bronx, New York. He received his MD (1992) and PhD (1991 in Cell Biology and Genetics) from Cornell University Medical College. From 1992 to 1996, he served a fellowship at the Whitehead Institute for Biomedical Research at MIT, Cambridge, Massachusetts.





From left, urologists Costas Lallas, MD; Leonard G. Gomella, MD, Chair of the Department, and Edouard J. Trabulsi, MD, are shown with the daVinci® System robot.

Robot Joins Prostate Cancer Team

Not long ago, men with prostate cancer had limited treatment choices. Today, at the Kimmel Cancer Center at Jefferson, that's changing.

The daVinci® System, a futuristic technology, allows Jefferson's internationally recognized urologic specialists to provide another advance in less invasive laparoscopic prostatectomy. Jefferson led the Delaware Valley in offering laparoscopic prostatectomy.

The new robotic technology uses a small thin tube with a scope on the tip to see inside the body and remove prostate tissue. The surgery reduces trauma through smaller incisions, faster recovery, and less overall blood loss. Like traditional open prostatectomy, the robotic technology involves reconstructing the urinary tract.

The robot isn't programmed and doesn't make decisions on its own. Every surgical maneuver requires a surgeon's input. But the robot makes the laparoscopic prostatectomy much easier. As a result, the number of

prostatectomies performed using the robot has greatly increased. Nationwide about 80 percent of the robot's use in surgery is in urology, with about 15 percent for heart procedures.

Leonard G. Gomella, MD, Director of Urologic Oncology at the Kimmel Cancer Center, reports that the new procedure often enables patients to leave the hospital in one to two days. The robot-assisted prostatectomies have now been used successfully in thousands of prostate cancer procedures worldwide. View procedure online at www.JeffersonHospital.org/webcast

Urologists at the Kimmel Cancer Center at Jefferson continue to expand laparoscopic approaches to prostate and kidney cancer treatment. And Jefferson's multidisciplinary Genitourinary Cancer Program leads the way in state-of-the-art technology, whether it be cryotherapy, brachytherapy, 3D conformal external radiation, IMRT, regular, or laparoscopic and robotic prostatectomy.

Jefferson Breast Care Center

A breast cancer diagnosis can be shocking, scary and overwhelming. That's why the Jefferson Breast Care Center strives to provide easy access to top breast care specialists and deliver patient care in a warm, comfortable environment.

Breast Care at Jefferson offers services tailored to the individual,



with skilled clinical staff, easy access through **1-800-JEFF-NOW**, and coordinated care through our National Cancer Institute-designated Cancer Center.

And a new Breast Care facility at Jefferson will mean centralized clinical services and leading-edge treatment options and therapies, helping Jefferson better serve the women of our community.

To help build the Jefferson Breast Care Center, call toll free **1-877-JEFF-GIFT** or go to www.KimmelCancerCenter.org/fightcancer

Raising Funds for Jefferson Breast Care Center



Walkers kick off 3K walk for "Extreme Makeover: Home Edition."

Walking to Fight Cancer

Walking is a great exercise, especially when every step helps fight breast cancer!



Bloomingtondale's, King of Prussia

Daffodils bloomed this spring as patrons at Bloomingtondale's, King of Prussia, had an opportunity to donate a bag full of benefits to the Jefferson Breast Care Center – just by shopping.

At the time of purchase, shoppers identified themselves as Jeff supporters. In turn, Bloomingtondale's, King of



Models wearing spring fashions tempt Bloomingtondale's, King of Prussia, patrons to shop and benefit Jefferson Breast Care Center.

Prussia, donated 10 percent of the value of each shopper's purchases that day to support a new comfortable facility at the Jefferson Breast Care Center.

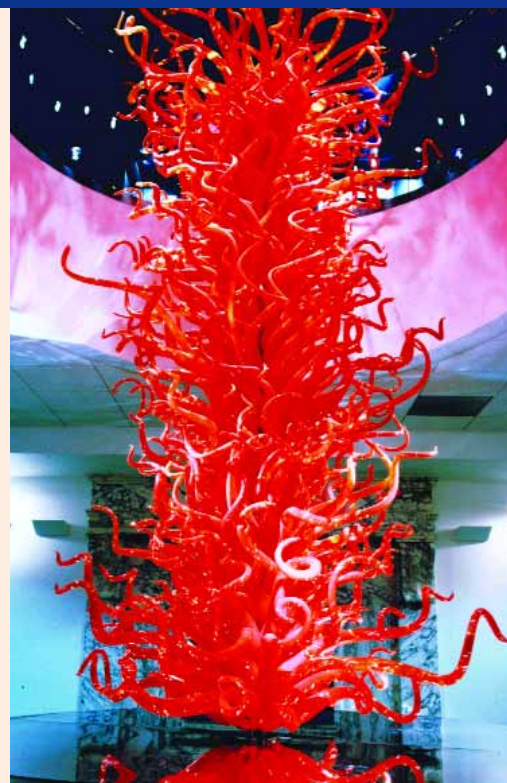
Shopping and donating for breast cancer – what a great combination!

On March 26, the Eagles, Thomas Jefferson University Hospital, WPVI-Channel 6, and Dewey Home Builders teamed with the ABC show, "Extreme Makeover: Home Edition" to raise more than \$33,000 for the new Jefferson Breast Care Center. The Dewey Family Foundation donated \$25,000.

Dewey and Extreme Makeover are completing work on a home for three Philadelphia children who lost their mother, Sandra Rosario, to breast cancer.



Presentation of the Dewey Family Foundation donation of \$25,000 to the Jefferson Breast Care Center.



"Flame of Liberty" as displayed in the National Liberty Museum.

Women's Board Hosts Cancer Fundraiser

The Women's Board of Thomas Jefferson University Hospital, a volunteer organization founded in 1907 to support hospital projects for patients, hosted an April 20, 2006 fundraiser at the National Liberty Museum for the Jefferson Breast Care Center.

The Women's Board donates countless volunteer hours and has raised several million dollars for Jefferson projects such as the Bodine Center for Cancer Treatment, Pastoral Care, Blood Bank, GetWellNetwork Patient Information Kiosks, Nursing Recruitment and Career Development, Cribs For Kids, and Life Guard Wig Program.

For more information about the Women's Board or fundraising activities, call **Maren Gaughan** at 215-955-2086.



Sidney Kimmel Receives American Cancer Society's Medal of Honor for Cancer Philanthropy



Sidney Kimmel, for whom the Kimmel Cancer at Jefferson is named, received the American Cancer Society's first-ever Medal of Honor for

Cancer Philanthropy. He is one of three Americans recognized for their outstanding contributions to the fight

against cancer. The Society's highest award recognized Mr. Kimmel, whose deep personal commitment to fighting cancer has improved the lives of countless cancer patients nationwide.

Mr. Kimmel was honored for his vision in improving the understanding of cancer biology, treatment and prevention; his demonstrative leadership to improve our government's commitment to fighting cancer; his

unparalleled contributions to cancer research and care through the Sidney Kimmel Foundation and the Sidney Kimmel Foundation for Cancer Research; his generous support of the American Cancer Society's lifesaving mission; and his dedication to promoting groundbreaking cancer research and improvements in the quality of life of cancer patients.

ONCOLOGY LEADERS

Kimmel Cancer Center at Jefferson scientists are national and international leaders in oncology.

- Virologist **Hilary Koprowski, MD**, is a member of the National Academy of Sciences and invented the first cancer vaccines.
- Kimmel Cancer Center at Jefferson Clinical Director **Walter J. Curran Jr., MD**, Chair of Radiation Oncology, is serving his third term as Group Chairman of the Radiation Oncology Therapy Group (RTOG), a national clinical trials organization.
- Alumni Professor and Chair of Family and Community Medicine, **Richard C. Wender, MD**, is President-elect of the American Cancer Society.
- Director, Division of Medical Oncology, and Director, Hematologic Malignancies and the Blood and Marrow Transplant Program, and Professor of Medicine, Microbiology and Immunology, **Neal Flomenberg, MD**, is the recent winner of the *Service to Mankind Award* from The Leukemia & Lymphoma Society.

- Clinical Professor of Medicine and Program Leader in Gastrointestinal Oncology, **Edith Peterson Mitchell, MD**, has received 21 Cancer Research and Principal Investigator Awards, and serves on the National Cancer Institute Review Panel and the Cancer Investigations Review Committee.
- Dermatology and Cutaneous Biology Chair **Jouni J. Uitto, MD, PhD**, is a council member of the International Society for Matrix Biology.
- Chair of Pharmacology and Experimental Therapeutics **Scott A. Waldman, MD, PhD**, is Editor-in-Chief of *Clinical Pharmacology & Therapeutics*.

- Hereditary cancer specialist **Bruce M. Boman, MD**, is a permanent member of the Cancer Biomarkers Study Section of the National Cancer Institute, National Institutes of Health.
- Radiation oncologist **Adam P. Dicker, MD, PhD**, has been appointed Vice Chair for Translational Research at the Radiation Oncology Therapy Group (RTOG).
- Breast surgeon **Anne L. Rosenberg, MD, FACS**, is a member of the International Society of Cancer Risk Assessment & Management.

For more accolades, visit www.JeffersonHospital.org/cancer

View Cancer Procedures Online at
www.JeffersonHospital.org/webcast

- Radical Mastectomy and Breast Reconstruction
- Minimally Invasive Pituitary Surgery
- Colorectal Cancer – the facts can save lives

To Find Out More: www.KimmelCancerCenter.org

New Approach Targeting Brain Tumors

Shaped Beam Stereotactic Radiosurgery

Today, neurosurgeons and radiation oncologists at the Kimmel Cancer Center at Jefferson are using highly advanced radiation technology to treat a wide range of tumors in the brain and spinal cord.

The new technology, Novalis Shaped Beam™ Surgery, is available only at Jefferson in the Delaware Valley and at a limited number of medical centers nationwide. Novalis BrainLAB advances the fight against benign and malignant tumors in the brain and the spinal cord regions. Walter J. Curran Jr., MD, Professor and Chair of Radiation Oncology at Jefferson and Clinical Director of the Kimmel Cancer Center at Jefferson, says that BrainLAB “enables specialists to better focus radiation on specific targets while leaving healthy tissue virtually untouched, holding great therapeutic promise for hard-to-reach and difficult-to-treat tumors.”

Novalis relies on sophisticated computers to develop and carry out a treatment plan that tailors the shape and intensity of the radiation beams to fit the exact size of the tumor, thereby sparing healthy tissue.

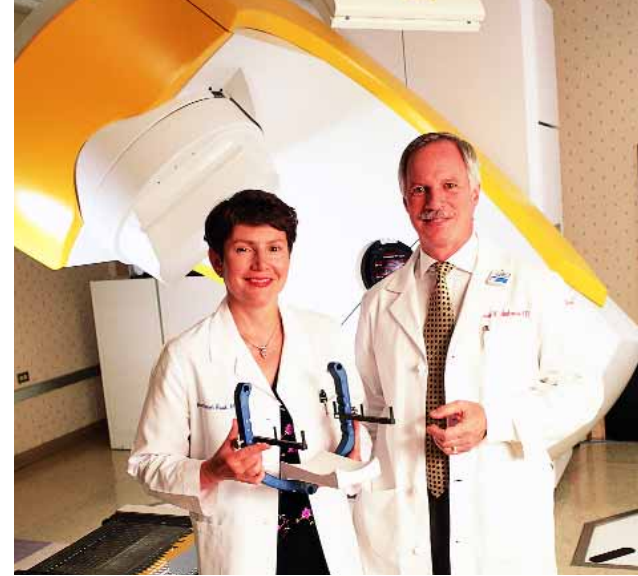
Part of the challenge in radiosurgery is to position the patient properly for radiation treatment. Novalis overcomes this in part by rotating around the patient, constantly editing the beams of radiation to meet the specific tumor therapy needs at any angle.

X-rays are taken to locate the tumor. Then, along with results from a computer tomography (CT) scan, a sophisticated computer program calculates to the millimeter the best

position for the therapy for the patient’s tumor. A computer-guided treatment couch then positions the patient – re-positioning when necessary – moving the individual’s tumor into exactly the position needed to receive radiation.

According to David Andrews, MD, Professor of Neurosurgery at Jefferson Medical College and Director, Division of Neuro-oncologic Neurosurgery and Stereotactic Radiosurgery at Thomas Jefferson University Hospital, BrainLAB provides infinite flexibility in dealing with lesions from the top of the head to the bottom of the spine.

“We can wrap doses around structures such as the spinal cord, and can



Radiation oncologist Maria Werner-Wasik, MD, and neurosurgeon David Andrews, MD, with stereotactic radiosurgery equipment.

create a very high dose of radiation and leave the cord untouched,” says Dr. Andrews. “There’s no other technology out there that can do this.”

For more information, call **1-800-JEFF-NOW** or visit us online at **www.JeffersonHospital.org**.

NEWS

It only takes a moment to make the difference of a lifetime.



Join the
Kimmel Cancer Center
at Jefferson in our quest
to **CURE** Cancer.

To receive information about Kimmel Cancer Center events or to be added to our mailing list please, email **maren.gaughan@jefferson.edu** or call **215-955-2086**.



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From the Director *(continued)*

and clinical research. And we'll keep you posted on the Kimmel Cancer Center's innovative therapies and clinical trial participation opportunities for breast, lung, prostate, colon and rectal, and head and neck cancer.

This magazine will also introduce you to our dedicated and internationally renowned research team, including Dr. Lisanti, the 15th most-cited researcher worldwide in biochemistry and biology. Our researchers' innovative approaches hold great promise for changing the future of cancer care,

Meet the Kimmel Cancer Center at Jefferson team – outstanding professionals from across Jefferson, who teach, discover and provide the highest quality compassionate health care. The center's multidisciplinary approach, embracing researchers and clinicians, fosters an atmosphere where scientific discovery is translated to treatment quickly to benefit patients with cancer.

and we will update you on recent appointments to both our research and clinical care team. Their combined efforts have moved the Kimmel Cancer Center at Jefferson into the forefront of translational research and treatment in the region.

I hope you enjoy reading the *Kimmel Cancer Center at Jefferson Magazine* and look forward to continuing to share all the great news at Kimmel

Cancer Center at Jefferson as we translate our basic research discoveries into meaningful advances in patient treatment and care.

Wishing you a safe and happy summer!



Richard G. Pestell
MB, BS, MD, PhD, FRACP
Director
Kimmel Cancer Center at Jefferson



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