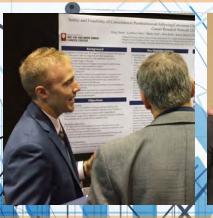
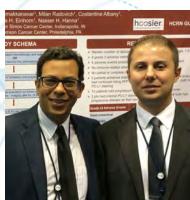
hcosier

CANCER RESEARCH NETWORK









Annual Report 2017

Board of Directors



Appointed Director

Christopher Fausel, PharmD, Chair Charles Fox Patrick Loehrer, Sr., MD Bert O'Neil, MD, Chief Scientific Officer Timothy Ratliff, PhD Richard Zellars, MD

Elected Director

Sumeet Bhatia, MD
Kerry Bridges, MBA, RN, CCRC
Noah Hahn, MD
Christopher LeMasters, MBA
Annette Moore, MD, Secretary
Ted Stansbury
Christopher Wayne, MS, MBA, FACHE, CMPE, Treasurer

Hoosier Cancer Research Network's vision and mission is to form

unparalleled relationships between academic, community,

pharmaceutical, and biotech partners with the goal of advancing

cancer research, education, and patient advocacy.

Our highly qualified team provides comprehensive

study management and support, from conception and study design through project completion and publication.





Chairman of the Board

wenty-seventeen was an extraordinary year of growth for HCRN — both in terms of numbers and in the quality of engagement with our network collaborators.

More top academic research institutions and key opinion leaders joined our network in 2017, enriching the scientific strength and energy of each of our disease-specific clinical trial working groups. The best kept secret in clinical research is quickly evaporating as investigators invite their colleagues to join our network. We are increasingly viewed by top academic institutions as a preferred research collaborator for multi-center investigator-initiated studies.

This growth enables us to pursue more aggressively than ever our highest goal: to help our patients live longer and healthier lives.

Each investigator, bench scientist, oncology nurse, pharmacist, and study coordinator throughout our network knows that patients are the heart and soul of our work. As an outgrowth of our mission, HCRN is committed not only to the timely completion of primary endpoints, but also to exploring answers to key correlative questions. The more we learn about a patient's genetic profile, the micro-environment of their tumor, and the effect of an investigational therapy on patients with similar characteristics, we can make more timely, informed decisions that could benefit our patients or spare them from what would be an ineffective treatment approach.



Christopher A. Fausel, PharmD, MHA, BCOP

Clinical Manager, Oncology Pharmacy Indiana University School of Medicine

HCRN negotiates with funders and investigators to include correlative objectives within our study budgets to the fullest extent possible. Yet, important correlative studies are often outside the scope of a clinical trial budget. For that reason, HCRN relies on the generosity of individuals, businesses, and philanthropic organizations to fill the gap in funding these important studies. Every donation or grant we receive moves us further down the road of scientific discovery. To all those who contributed in 2017, and to those who are already contributing in 2018 — thank you for making a difference for our patients!

I am proud of the dedicated and knowledgeable staff at HCRN for their contributions to an outstanding year.





Chief Scientific Officer





Bert H. O'Neil, MD

Cusick Professor of Oncology Director, Phase I & GI Oncology Indiana University School of Medicine eterans of clinical research know that we have entered a new era in which clinical trials are more targeted than ever to specific, biomarker-defined patient populations. This shift reflects the greater trend in healthcare toward personalized therapy, and is evidenced in the concepts that come to HCRN.

Investigators understand that clinical trials based on biomarker-selected subgroups are difficult to fully accrue, and can only succeed when conducted via collaboration across multiple institutions. An example of this can be seen in studies that involve immunotherapeutic agents for certain subgroups of patients, such as patients with microsatellite instability-high (MSI-H) colorectal cancer, representing just 3 percent of all metastatic colorectal cancers.

To our investigators, HCRN brings not only the wisdom gained from more than three decades of multi-center investigator-initiated research, but also a responsive organizational culture that quickly adapts to the changing horizon of medical research. Only a few years ago, immunotherapy was just entering the clinical research milieu. Today, more than 60 percent of HCRN studies involve immunotherapy.

HCRN's clinical trial working groups provide an ideal venue for investigators to test their concepts in a supportive, collegial environment. Our personal style of engagement allows young investigators to learn from the experience of thought

leaders from the nation's leading academic institutions, while providing a venue for all investigators to receive valuable scientific feedback on their research proposals. The growth of our investigator network is leading to more clinical trials in more therapeutic areas, in both solid tumor and hematologic malignancies.

Of course, none of this would be possible without strong relationships with funders. Each year, the number of pharmaceutical and biotech companies with whom we collaborate increases. And more and more, these companies return to conduct additional studies with HCRN.

We are grateful, as well, to the foundations and advocacy groups that support our studies. In fact, we are nearing completion of a personalized medicine study in breast cancer that has been fully funded through foundation grants. Another organization is funding a banking and genomic sequencing study in bladder cancer.

To all our members and collaborators, thank you for your partnership with HCRN. We look forward to continuing our work together in 2018.

The

Sandra Turner Excellence in Clinical Research Award

eing a clinical research specialist, I find that there is no boring day; every day is new. You learn every day, you work through medical records, and if there is anything in question, you research it and try to find answers. You ask your PI, research nurse, and your team for answers along the way. Each patient experience gives you knowledge.

Some of the trials we have are survival studies, so you follow these patients for a long time and you get to know the family. There are patients from many years ago that still come to my office to see me.



Clinical Research Specialist, Indiana University Melvin and Bren Simon Cancer Center



About the Award

The Sandra Turner Excellence in Clinical Research Award was established in 2002 by William B. Fisher, MD, through the George and Sarah Jane Fisher Fund to honor the memory of Sandra Turner, the first executive director of Hoosier Cancer Research Network. Recipients exemplify qualities which Sandra Turner possessed, such as sustained professional commitment, contribution to the progress of oncology care, and unflinching compassion.

Sandra Turner Excellence in Clinical Research Award

o really make a difference for patients, we have to figure out how to detect or treat their disease, or prevent it in the first place. It takes understanding how things work to target them. That's part of the reason why clinical trials are so important. The faster we are able to get answers to questions, the faster we can do things that we know really make a difference for patients.

Oncology care is not for the faint of heart. It can be filled with a lot of joy, but there are really sad moments. Having a way to manage those emotions and acknowledge them allows you to be there for a family or patient that's going through this. Every time is their first time, and you have to really pay attention to that.

2017 Recipient Maggie Uhrich, RN, BSN, OCN

Thoracic Oncology Research Nurse, Indiana University Melvin and Bren Simon Cancer Center



About the Award

The Sandra Turner Excellence in Clinical Research Award was established in 2002 by William B. Fisher, MD, through the George and Sarah Jane Fisher Fund to honor the memory of Sandra Turner, the first executive director of Hoosier Cancer Research Network. Recipients exemplify qualities which Sandra Turner possessed, such as sustained professional commitment, contribution to the progress of oncology care, and unflinching compassion.

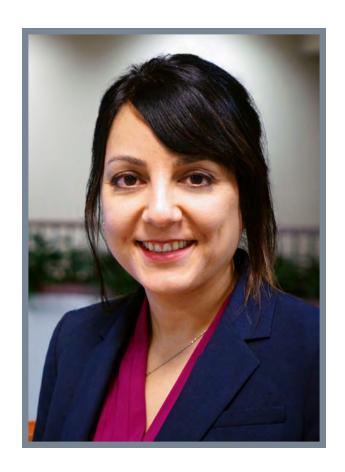


George and Sarah Jane Fisher Young Investigator Award

enitourinary malignancies are very diverse cancers, making GU oncology a very exciting field. Right now, I'm working on a variant of bladder cancer, plasmacytoid urothelial carcinoma, that has a very poor outcome compared to the common urothelial carcinoma. I have collected a cohort of patients and analyzed their responses to a variety of treatments. We are sending those patients to our precision genomics clinic to look for possible targetable mutations. We are also doing epigenomic (methylation) assays and chromatin analysis to compare the plasmacytoid carcinomas with the common urothelial carcinomas. If any DNA hypermethylation is found, then we could try combining immune checkpoint inhibitors or chemotherapy with a hypomethylating agent.

2017 Recipient Neda Hashemi Sadraei, MD

Third-year fellow; chief fellow in hematology/oncology, Indiana University School of Medicine



About the Award

In 2011, William B. Fisher, MD and others generously established a new award through the George and Sarah Jane Fisher Fund to challenge the next generation of cancer researchers. The George and Sarah Jane Fisher Young Investigator Award honors Indiana University oncology fellows and faculty members who have made significant contributions to clinical or basic science research in collaboration with Hoosier Cancer Research Network.

Terry Hoeppner Patient Advocacy Award

ith cancer comes recognition of the fact that death is real, that you only are blest with so many days, and you only have so much time. But you also realize that you get to make choices about how you spend this measured time. When my diagnosis came, I decided how I wanted to spend this time — I chose advocacy and art.

I sit here most likely alive today because of having made a decision to go into a clinical trial. ... I'm such a believer that these trials will be what will cure cancer, I have no question it will happen. But it is only when people raise their hand and say, 'I will do my part,' that it happens.



2016-2017 Recipient

Teresa Altemeyer

Patient advocate; board chair, Indiana Chapter of the Leukemia & Lymphoma Society

About the Award

Terry Hoeppner, beloved Indiana University football coach, lost his battle with brain cancer in 2007. Coach Hep was known for his "never quit" attitude and determination to face challenges head-on. To honor his memory, his wife, Jane Hoeppner, created the Terry Hoeppner Patient Advocacy Award. The award honors individuals who embody Coach Hep's spirit and determination to champion their cause.

Publications & Abstracts

GI14-186

A phase II study of pembrolizumab in combination with mFOLFOX6 for patients with advanced colorectal cancer. J Clin Oncol 35, 2017 (suppl; abstr 3541)

Authors: Safi Shahda, Anne M. Noonan, Tanios S. Bekaii-Saab, Bert H. O'Neil, Amikar Sehdev, Walid Labib Shaib, Paul R. Helft, Patrick J. Loehrer, Yan Tong, Ziyue Liu, Bassel F. El-Rayes; Indiana University, Indianapolis, IN; The Ohio State University Comprehensive Cancer Center, Arthur G. James Cancer Hospital, Columbus, OH; Mayo Clinic Cancer Center, Phoenix, AZ; Indiana University Melvin and Bren Simon Cancer Center, Indianapolis, IN; Winship Cancer Institute, Atlanta, GA; Indiana University School of Medicine, Indianapolis, IN

GU10-148

DNA damage response (DDR) gene mutations (mut), mut load, and sensitivity to chemotherapy plus immune checkpoint blockade in urothelial cancer (UC).

J Clin Oncol 35, 2017 (suppl 6S; abstract 300)

Authors: Matt D. Galsky, Andrew V. Uzilov, Russell Bailey Mc-Bride, Huan Wang, Vaibhav G. Patel, John Sfakianos, Li Wang, Nicholas Akers, Gopa Iyer, David B. Solit, Takuro Saito, Mireia Castillo-Martin, Noah M. Hahn, Sumanta K. Pal, Mark T. Fleming, Ralph J. Hauke, Bojan Losic, Sacha Gnjatic, Rong Chen, Nina Bhardwaj; Icahn School of Medicine at Mount Sinai, New York, NY; Department of Medicine, Icahn School of Medicine at Mount Sinai, New York, NY; Department of Urology, Icahn School of Medicine at Mount Sinai, New York, NY; Genetics and Genomic Sciences, The Tisch Cancer Institute, Mount Sinai School of Medicine, New York, NY; Memorial Sloan Kettering Cancer Center, New York, NY; Johns Hopkins University, Baltimore, MD; City of Hope, Duarte, CA; US Oncology Research, Virginia Oncology Associates, Hampton, VA; Nebraska Cancer Specialists, Omaha, NE; Tisch Cancer Institute, Icahn School of Medicine at Mount Sinai, New York, NY

GU12-159

PACIFIC trial: A randomized phase II study of apatorsen and abiraterone in patients (Pts) with metastatic castration-resistant prostate cancer (mCRPC) who have had PSA progression while receiving abiraterone (ABI).

J Clin Oncol 35, 2017 (suppl 6S; abstract 146)

Authors: Kim N. Chi, Mark T. Fleming, Katherine Sunderland, Costantine Albany, Joel Gingerich, Fred Saad, Scott A. North, Alexander Starodub, Richard C. Lauer, Joseph D. Ruether, Madelaine Miranda Sgroi, Mark C. Scholz, Christopher Sweeney; British Columbia Cancer Agency, Vancouver, BC, Canada; US Oncology Research, Virginia Oncology Associates, Hampton, VA; BC Cancer Centre, Vancouver, BC, Canada; Indiana University School of Medicine, Indianapolis, IN; CancerCare Manitoba, Winnipeg, MB, Canada; University of Montreal, Montreal, QC, Canada; Cross Cancer Institute, University of Alberta, Edmonton, AB, Canada; Indiana University Health Goshen Center for Cancer Care, Goshen, IN; University of New Mexico Comprehensive Cancer Center, Albuquerque, NM; Tom Baker Cancer Center, Calgary, AB,

Canada; Central Indiana Cancer Center, Indianapolis, IN; Prostate Oncology Specialists, Marina del Rey, CA; Dana-Farber Cancer Institute, Boston, MA

GU12-160

Borealis-2: A randomized phase II study of OGX-427 (apatorsen) plus docetaxel versus docetaxel alone in platinum-resistant metastatic urothelial cancer (mUC) (Hoosier Cancer Research Network GU12-160).

J Clin Oncol 35, 2017 (suppl 6S; abstract 289)

Authors: Toni K. Choueiri, Noah M. Hahn, Lillian Werner, Meredith M. Regan, Jonathan E. Rosenberg, BOREALIS-02 investigators; Dana-Farber/Harvard Cancer Center, Boston, MA; Johns Hopkins University, Baltimore, MD; Dana-Farber Cancer Institute, Boston, MA; Memorial Sloan Kettering Cancer Center, New York, NY

GU14-206

Phase II trial of pembrolizumab in patients (pts) with incurable platinum refractory germ cell tumors (GCT). J Clin Oncol 35, 2017 (suppl; abstr 4520)

Authors: Nabil Adra, Sandra K. Althouse, Natraj Reddy Ammakkanavar, Milan Radovich, Costantine Albany, David J. Vaughn, Lawrence H. Einhorn, Nasser H. Hanna; Indiana University Melvin and Bren Simon Cancer Center, Indianapolis, IN; Indiana University School of Medicine, Indianapolis, IN; Community Cancer Center, Indianapolis, IN; Abramson Cancer Center, Philadelphia, PA

LUN14-179

Safety and feasibility of consolidation pembrolizumab following concurrent chemoradiation for unresectable stage III non-small cell lung cancer: Hoosier Cancer Research Network LUN14-179.

J Clin Oncol 35, 2017 (suppl; abstr 8523)

Authors: Greg Andrew Durm, Cynthia Johnson, Shadia Ibrahim Jalal, Ahad Ali Sadiq, Salma Jabbour, Robin Zon, Goetz H. Kloecker, Karen L. Reckamp, William B. Fisher, Nasser H. Hanna; Indiana University Melvin and Bren Simon Cancer Center, Indianapolis, IN; Indiana University Department of Biostatistics, Indianapolis, IN; Indiana University School of Medicine, Indianapolis, IN; Fort Wayne Medical Oncology and Hematology, Fort Wayne, IN; Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; Michiana Hematology Oncology, PC, South Bend, IN; University of Louisville, Louisville, KY; City of Hope Comprehensive Cancer Center, Duarte, CA; Medical Consultants, Muncie, IN

See all HCRN publications at:

hoosiercancer.org/category/publications/

Our Member Network



UAB Comprehensive Cancer Center, Birmingham

BCG Oncology, P.C., Phoenix Ironwood Cancer & Research Centers, Phoenix

Mayo Clinic, Phoenix

Tuniversity of Arizona Cancer Center at Dignity Health St. Joseph's, Phoenix Yuma Regional Cancer Center, LLC, Yuma

Arkansas

Genesis Cancer Center, Hot Springs

California

- Cedars-Sinai Medical Center, Los Angeles
- City of Hope, Duarte

Marin Specialty Care, Greenbrae

- Moores Cancer Center at UC San Diego Health, San Diego Prostate Oncology Specialists, Inc., Marina Del Rey Salinas Valley Memorial Healthcare System, Salinas
- TUSC Norris Comprehensive Cancer Center, Los Angeles

Colorado

Tuniversity of Colorado Cancer Center, Aurora

Florida

Memorial Breast Cancer Center at Memorial Regional Hospital, Hollywood

UF Health Cancer Center at Orlando Health, Orlando

Moffitt Cancer Center, Tampa

- university of Florida Health Cancer Center, Gainesville
- 🔷 University of Miami, Miami

Georgia

Winship Cancer Institute of Emory University, Atlanta

Illinois

Illinois CancerCare, PC, Galesburg Oncology Specialists, S.C., Niles

- Robert H. Lurie Comprehensive Cancer Center of Northwestern University, Chicago
- Rush University Medical Center, Chicago
- ricago Medical Center, Chicago Medical Center, Chicago
- University of Illinois Cancer Center, Chicago

Indiana

Community Healthcare - Primary Care Oncology, Munster Community Hospital of Anderson and Madison County, Inc.,

Community Regional Cancer Centers, Indianapolis Floyd Memorial Cancer Center of Indiana, New Albany Fort Wayne Medical Oncology & Hematology, Fort Wayne Good Samaritan Hospital, Vincennes Goshen Center for Cancer Care, Goshen

Hope Center, Terre Haute

Horizon Oncology Research, Inc., Lafayette Indiana University Melvin and Bren Simon Cancer Center,

Indianapolis IU Health Arnett Cancer Centers, Lafayette

IU Health Ball Memorial Hospital Cancer Center, Muncie

IU Health Cancer Centers Bloomington, Bloomington

IU Health Central Indiana Cancer Centers, Indianapolis

Jasper Memorial Hospital, Jasper

Kosciusko Community Hospital Cancer Care Center, Warsaw Oncology Hematology Associates of SW Indiana, Newburgh Radiation Oncology Associates, Fort Wayne

St. Vincent Anderson Regional Hospital, Anderson

St. Vincent Health, Indianapolis Union Hospital, Inc., Terre Haute

Tholden Comprehensive Cancer Center, University of Iowa, Iowa City

Kansas

Cancer Center of Kansas, Wichita

Kentucky

Tuniversity of Louisville, Louisville

Louisiana

LSU Health Care Center, Houma Ochsner Clinic Foundation, New Orleans

Maryland

Meritus Center for Clinical Research / John R. Marsh Cancer Center. Hagerstown

- Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, **Baltimore**
- Tuniversity of Maryland Greenebaum Cancer Center, Baltimore

Massachusetts

- Dana-Farber Cancer Institute, Boston
- 💎 Tufts Medical Center, Boston

Michigan

- Barbara Ann Karmanos Cancer Center, Detroit The Cancer Center at Metro Health Village, Wyoming Henry Ford Health System, Detroit
- Michigan Center of Medical Research, Farmington Hills
- University of Michigan Comprehensive Cancer Center, Ann Arbor

Minnesota

HealthPartners Institute, Minneapolis

- Masonic Cancer Center, University of Minnesota, Minneapolis
- mayo Clinic, Rochester

Missouri

Washington University School of Medicine / Siteman Cancer Center, St. Louis

Nebraska

GU Research Network, LLC, Omaha Nebraska Cancer Specialists, Omaha Nebraska Methodist Hospital, Omaha

New Hampshire

Dartmouth-Hitchcock Norris Cotton Cancer Center, Lebanon

New Jersey

Atlantic Health System, Morristown

John Theurer Cancer Center at Hackensack University Medical Center, Hackensack

Penn Medicine | Virtua Cancer Program - Mount Holly Regional Cancer Care Associates, LLC, Cherry Hill

Rutgers Cancer Institute of New Jersey, New Brunswick

New Mexico

University of New Mexico Cancer Center (NMCCA), Albuquerque

New York

- Columbia University Medical Center, New York Integrated Medical Professionals, PLLC, Melville
- Tisch Cancer Institute at Mount Sinai, New York

Our Member Network



- 💚 Memorial Sloan Kettering Cancer Center, New York
- New York University Cancer Institute, New York
- Roswell Park Cancer Institute, Buffalo
- University of Rochester Medical Center, Rochester

North Carolina

- Comprehensive Cancer Center of Wake Forest University, Winston-Salem
- Novant Health Oncology Specialists, Winston-Salem
- University of North Carolina Lineberger Comprehensive Cancer Center, Chapel Hill

Ohio

- Cleveland Clinic Taussig Cancer Institute, Cleveland
- The Ohio State University, Columbus
- Tuniversity of Cincinnati Cancer Institute, Cincinnati
- Tuniversity Hospitals Seidman Cancer Center, Cleveland

Oklahoma

Mercy Clinic Oncology and Hematology - McAuley, Oklahoma City

Oregon

Oregon Health & Sciences University, Portland Providence Cancer Center, Portland

Pennsylvania

- Fox Chase Cancer Center, Philadelphia Gettysburg Cancer Center, Gettysburg PinnacleHealth Cancer Care, Harrisburg
- Thomas Jefferson University / Sidney Kimmel Cancer Center, Philadelphia
- 💎 University of Pennsylvania, Philadelphia

South Carolina

Medical University of South Carolina / Hollings Cancer Center,

Tennessee

Erlanger Health System, Chattanooga

Vanderbilt-Ingram Cancer Center, Nashville
West Cancer Center, Memphis

Texas

- → Baylor College of Medicine Methodist Breast Center, Houston
- Cancer Therapy & Research Center at UT Health Science Center, San Antonio
- Joe Arrington Cancer Research and Treatment Center, Lubbock

 MD Anderson Cancer Center, Houston
- Medicus Alliance Clinical Research, Houston Texas Oncology PA, Dallas
- T Medical Branch at Galveston, Galveston
- TI Southwestern Medical Center, Dallas

Utah

Tuntsman Cancer Institute at Univ. of Utah, Salt Lake City

Virginia

University of Virginia Cancer Center, Charlottesville Virginia Oncology Associates, Norfolk

Washington

University of Washington, Seattle

Washington, D.C.

George Washington University Cancer Center Georgetown University Medical Center

Wisconsin

Aurora Research Institute, LLC, Milwaukee Clement J. Zablocki VA Medical Center, Milwaukee

- Froedtert & the Medical College of Wisconsin, Milwaukee
- University of Wisconsin Carbone Cancer Center, Madison

Our Contributors

hank you to all who have contributed to Hoosier Cancer Research Network. We are grateful for your commitment of time and resources to help us fulfill our mission. Your generous support strengthens our ability to fund investigator-initiated research. Learn how YOU can contribute to cancer research at www.hoosiercancer.org/make-a-difference/.

Contributions Received in 2017

Rafat Abonour

AmazonSmile

Ansari Charitable Foundation

JoLynn Bahr

Brent Barta

John Baute — in memory of Bill and Marie Wood

Cynthia Burkhardt — in memory of John Waffle

David and Stacey Cadogan

Kenneth Cornetta

Chris Dafforn

Randy Dillinger

Karen Dutcher — in memory of Glennon Schlueter

Elizabeth Edwards — in honor of William B. Fisher

Sylvia J. Edwards — in honor of William Fisher

Christopher Fausel — in honor of William B. Fisher

David Fisher — in memory of Sarah Jane Fisher;

in honor of William B. Fisher

John E. Fisher, Jr. — in memory of George and

Sarah Jane Fisher

William B. Fisher

Charlie Fox

Sara Grethlein

Pamela Griffin — in memory of Carolee Ford

Patricia Kneebone

Ahran Lee

Chris LeMasters

Kennda Lynch — in memory of Shirley Boyle

R.V. Prasad Mantravadi

Cara Martin — in memory of Skip Herring

Rakesh Mehta

Stephen and Cathie Miller — in honor of

William B. Fisher

Nicole Morgan — in memory of Tony Hayden

John Nell

Network for Good

Bert O'Neil

Maria Piddoubny

Gregory Reimann

Megan Reimann

Jessica Roy

Daniel Rushing

James and Cathy Schrecongost — in honor of

William B. Fisher

Safi Shahda — in memory of Laurette Abkarian

Thomas Sibert

Kelly and Donna Stanley — in honor of William B. Fisher

Cathy Usher — in memory of Sally Thrasher

Doug Vaughan

Nino Voskuhl

Lisa Wood — in memory of William Wood

Christopher Wu

Your Cause (AT&T)

Did you know you can support HCRN through purchases made through Amazon Smile? When you shop, Amazon will donate a portion of your purchase cost to HCRN. Scan the code to the right or visit https://smile.amazon.com/ch/26-0303542 to get started!













500 N. Meridian Street, Suite 100, Indianapolis, IN 46204

P: (317) 921-2050 F: (317) 921-2053 E: contact@hoosiercancer.org

www.hoosiercancer.org