Department of Urology
Urology-Oncology Fellowship Program

Indiana University School of Medicine
IU Simon Cancer Center

Indiana University Health
The Urologic Oncology Fellowship Program at Indiana University began in the 1980’s under the direction of Dr. John Donohue, and later accredited by the Society of Urologic Oncology (SUO) in 2001. Our fellowship is a two-year program comprised of one research year followed by one year of clinical fellowship. Consistent with the mission of the SUO, our goal is to provide a comprehensive training program in clinical genitourinary oncology through advanced surgical training, multidisciplinary didactics, and clinical/translational research endeavors.

During the first year of fellowship, opportunities to participate in clinical, translational and basic science research are available. Areas include protocol development and clinical trial design, collaboration and coordination of translational projects with researchers at Indiana University and Purdue University, and health services and outcomes based study. Basic science research is focused on genetic and translational approaches to the treatment and management of urologic malignancies. Participation in abstract presentation at regional and national meetings and authorship in peer-reviewed publications will be encouraged. The fellow will be responsible for leading a weekly multidisciplinary cancer conference. Opportunities to rotate with our medical oncology and radiation oncology colleagues will be coordinated during this year. Additionally, the fellow will serve as a clinical staff at our county hospital, participating in autonomous resident supervision and teaching. Overall, clinical responsibilities during the first year comprises <10% of the fellows time, with the remaining time protected for research and academic endeavors.

The second year of fellowship is dedicated to clinical time in the operating room. Fellows will participate in a wide array of open and minimally invasive procedures performed under the supervision of our urologic oncology staff. Our clinical experience in complex oncologic and reconstructive surgery is unparalleled, boasting one of the largest surgical experiences in testicular and advanced bladder cancer in the world.
The Urologic Oncology Faculty

Michael Koch, M.D.
*John P. Donohue Professor of Urology and Chairman, Department of Urology*

Dr. Koch assumed the position of Chairman of the Department of Urology in early 1998 after Dr. Donohue's retirement. Dr. Koch's clinical and research areas of interest include prostate and bladder carcinoma. The prostate cancer program has undergone rapid growth and includes both a large and rapidly growing surgical experience as well as innovative clinical trials for both early and advanced disease. In 2010, over 300 robotic prostatectomies were performed at our hospital.

Timothy Masterson, M.D.
*Assistant Professor and Fellowship Program Director*

Dr. Masterson joined our practice in January 2009, becoming fellowship director in 2013. His clinical interest is in urologic oncology. He received his M.D. here at Indiana University School of Medicine before graduating from urology residency at the University of Utah. Then he completed a two year fellowship at Memorial Sloan-Kettering Cancer Center.

Richard S. Foster, M.D.
*Professor*

Dr. Foster is actively engaged in urologic oncology and general urology. In addition to clinical activity in testis cancer, he directs departmental research activity in germ cell tumors. He is the most experienced surgeon in the surgical treatment of testis cancer in the world today.

Richard Bihrlle, M.D.
*Dr. Norbert M. Welch Sr. and Louise A. Welch Professor of Urology*

Dr. Bihrlle specializes in the treatment of adult tumors and reconstructive urologic surgery. Dr. Bihrlle was one of the original developers of the Indiana pouch and has a large practice including many patients with intestinal reconstructive procedures. He is acknowledged as an outstanding teacher and clinician.
The Urologic Oncology Faculty

Thomas Gardner, M.D.
Professor

Dr. Gardner completed his residency at Cornell before going on to complete a two-year post-residency fellowship in urologic gene therapy. He joined the faculty in mid-1999 to develop a gene therapy based program in urologic cancer. He has an active practice in oncology and general urology, including minimally invasive surgery.

Ronald Boris, M.D.
Assistant Professor

Dr. Boris joined our department in July 2010 after completing a fellowship in urologic oncology at the National Cancer Institute. His area of clinical and research interest includes kidney cancer and other urologic malignancies.

Clint Cary, M.D., M.P.H.
Assistant Professor

Dr. Cary joined our staff this August 2013 after completing a 2 year urologic oncology fellowship at the University of California, San Francisco. He also completed a Master of Public Health Degree from U.C. Berkeley with a concentration in epidemiology. His clinical interest is in urologic oncology.
### Current Urologic Oncology Fellows:

<table>
<thead>
<tr>
<th>Fellow</th>
<th>Completion Year</th>
<th>Current Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jose Pereira Pedrosa, MD</td>
<td>2014</td>
<td>Faculty at Hospital Geral de Bonsucesso—Rio de Janeiro, Brazil</td>
</tr>
<tr>
<td>Kevin Rice, MD</td>
<td>2013</td>
<td>Faculty at Walter Reed Army Medical Center</td>
</tr>
<tr>
<td>Paul Johnston, MD</td>
<td>2012</td>
<td>Faculty at Kingston General Hospital in Canada</td>
</tr>
<tr>
<td>Mike Risk, MD, PhD</td>
<td>2011</td>
<td>Faculty at the University of Minnesota</td>
</tr>
<tr>
<td>Matei Andreoiu, MD</td>
<td>2010</td>
<td>Cooper Clinic, private practice in Arkansas</td>
</tr>
<tr>
<td>Yaron Ehrlich, MD</td>
<td>2009</td>
<td>Faculty at Tel Aviv Israel</td>
</tr>
<tr>
<td>Paul Maroni, MD</td>
<td>2007</td>
<td>Faculty at University of Colorado Urologists</td>
</tr>
<tr>
<td>Niels Jacobsen, MD</td>
<td>2006</td>
<td>Teaching Faculty at Univ of Alberta, Alberta Urology Institute-Canada</td>
</tr>
<tr>
<td>Pratik Desai, MD</td>
<td>2005</td>
<td>Private practice in Virginia</td>
</tr>
<tr>
<td>Ashraf Mosharafa, MD</td>
<td>2003</td>
<td>Faculty at Cairo University, Egypt</td>
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</tbody>
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### Urologic Oncology Fellowship Alumni

<table>
<thead>
<tr>
<th>Fellow</th>
<th>Completion Year</th>
<th>Current Status</th>
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</thead>
<tbody>
<tr>
<td>Joseph Jacob, M.D.</td>
<td>Education</td>
<td>Ohio State University</td>
</tr>
<tr>
<td></td>
<td>Training</td>
<td>IU School of Medicine</td>
</tr>
<tr>
<td>Hristos Kaimakliotis, M.D.</td>
<td>Education</td>
<td>Yale University School of Medicine</td>
</tr>
<tr>
<td></td>
<td>Training</td>
<td>Yale New Haven Hospital</td>
</tr>
<tr>
<td>Jane Cho, M.D.</td>
<td>Education</td>
<td>New York Medical College</td>
</tr>
<tr>
<td></td>
<td>Training</td>
<td>University of California-Irvine</td>
</tr>
</tbody>
</table>
IU SCHOOL OF MEDICINE

UROLOGY ONCOLOGY FELLOWSHIP PROGRAM

Program Demographics

1. Host Institution: Indiana University School of Medicine
2. Program Specialty: Urology Oncology
3. Program Address: IU Cancer Pavilion – IU Health
   535 Barnhill Drive, #420
   Indianapolis, IN 46202
4. Program Phone #: (317) 278-0221
5. Program Fax #: (317) 278-0499
6. Program E-Mail: tamaster@iupui.edu

Program Director: Timothy Masterson, MD
Associate Professor

Alternate Program Contact: Tina Hedges
klhedges@iupui.edu
IU Urology website is http://urology.iupui.edu

The Program

The urology oncology fellowship program at the Indiana University School of Medicine has been in existence since the 1980's and later accredited by the Society of Urologic Oncology (SUO) in 2001.

The fellowship program is two years long. It is divided into one year of clinical urologic oncology training and one year of urologic oncology research. Residents completing an ACGME accredited urology residency program or a similarly accredited international residency program in urology are eligible for application.

The clinical training year provides a broad exposure to routine and complex urologic oncology conditions. The fellowship includes education in the multidisciplinary approach to urologic cancer care, including exposure to radiation oncology, medical oncology, urologic cancer pathology and supportive care.
Surgical training during the clinical year includes adequate exposure to both minimally invasive and open surgical procedures. Although the ratio of minimally invasive and open surgical experience during this training will vary, fellows will be provided with a volume of surgical training in both that will allow the graduating fellow to perform both open and minimally invasive surgery with competence. Adequate exposure to complex open surgical procedures is an important part of this training. Although typical case volumes for our graduating fellows are significantly larger than the minimum requirements, the requirement for each index case involves a minimum of 30 prostatectomy, 25 nephrectomy, 15 cystectomy, and 5 retroperitoneal node dissection cases. The average graduating fellow performs 2-3 times the minimum number of cystectomies required and 10-15 times the minimum number of required retroperitoneal lymph node dissection cases. (see case logs listed in chart below)

Case log numbers from the 8 most recent fellows are averaged below:

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Averages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radical prostatectomy</td>
<td>26</td>
</tr>
<tr>
<td>Radical cystectomy, conduit</td>
<td>28</td>
</tr>
<tr>
<td>Radical cystectomy, continent diversion</td>
<td>24</td>
</tr>
<tr>
<td>Pelvic exenteration with diversion</td>
<td>6</td>
</tr>
<tr>
<td>Retroperitoneal lymph node dissection</td>
<td>55</td>
</tr>
<tr>
<td>Radical nephrectomy</td>
<td>30</td>
</tr>
<tr>
<td>Partial nephrectomy</td>
<td>25</td>
</tr>
<tr>
<td>Adrenalectomy</td>
<td>3</td>
</tr>
<tr>
<td>Urethrectomy</td>
<td>3</td>
</tr>
<tr>
<td>Penectomy</td>
<td>5</td>
</tr>
<tr>
<td>Inguinal Lymph Node Dissection</td>
<td>6</td>
</tr>
</tbody>
</table>
The research training year consists of a health services track or laboratory research, or may include a combination of both. The research year includes at least 80% protected time for conducting research without clinical responsibilities. The department has robust research databases in the major urologic cancers and can also provide experience working with larger population-based datasets as well. The research training provides the fellow with a valuable educational experience that will result in peer-reviewed publications in urologic cancer journals. Research training also includes instruction in evidence-based medicine, clinical trial design, biostatistics, and grant writing. Fellows also receive education in the basic science and molecular aspects of urologic cancer. Research opportunities may be EITHER in health services research or basic science research although SUO accredited institutions are encouraged to offer both options.

More details of the requirements governed by the SUO are available on the website at [http://suonet.org](http://suonet.org).

**Teaching Staff**

Michael Koch, MD, Professor and Chairman  
Timothy Masterson, MD, Associate Professor and Program Director  
Richard Foster, MD, Professor  
Thomas Gardner, MD, Professor  
Richard Bihrle, MD, Professor  
Ronald Boris, MD, Associate Professor  
Clint Cary, MD, MPH, Assistant Professor

*Should you have any further questions or require any additional information, please don’t hesitate to contact me.*

*Looking forward to meeting you soon!*

*Timothy Masterson, MD*
Contact Information

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Indianapolis, IN  46202

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Indiana University Health Switchboard
(317) 944-5000

More information about our campus—Indiana University Purdue University at Indianapolis (IUPUI) can be viewed at www.iupui.edu

For further information about Indianapolis, please visit the Indianapolis Convention & Visitors Association website:

http://visitindy.com/