The Ohio State University
Internal Medicine Residency Program
My residency peer group:

"While I was an intern, I enjoyed complete support from my senior residents, which has eased my transition from medical school."

— Clint Alford, MD – PGY 2 Categorical

Why I chose Ohio State’s Medical Center:

"I had to have a job! I wanted to bring a sense of normalcy and helpful and easy to get along with. Co-residents always help out."

— Lauren Lastinger, MD – PGY 2 Med/Peds

What I enjoy most about my training at Ohio State’s Medical Center:

"Attendants teach a lot, are always friendly and helpful and are easy to get along with. Co-residents always help out."

— Irving Rosenburg, MD – PGY 3 Primary Care Track

How my residency is preparing me for the future:

"I plan to focus on Pulmonary/Critical Care, and at Ohio State there’s a high volume of procedures that have given me the opportunity to experience more."

— Vincent Esquiere, MD – PGY 2 Categorical

Why I chose Ohio State’s Medical Center:

"I'm not from the Midwest, nor had I ever been to Ohio prior to my interview. When (my boyfriend) Vince and I were looking for places to apply for residency, we started by looking at cities where we would like to live. A friend of mine from college is probably Columbus's #1 fan, so just for kicks, we decided to apply to Ohio State. In spite of a blizzard the night before and the entire day of my interview, I couldn't have had a better interview experience. The residents were a blast, and everyone I met just seemed happy. Also, people just seemed to be falling all over themselves to support us in couples matching, which, as anyone who is going through the couples match knows, is a huge bonus."

— Lauren Lastinger, MD – PGY 2 Med/Peds

The Ohio State University Medical Center
Internal Medicine Residency Program

• Early preparation for career choice
• Early opportunities for research project involvement

Research

The Department of Internal Medicine is involved in all aspects of biomedical research, including basic mechanisms of disease, translational studies and clinical trials. Because of our wealth and diversity of patients and our referral patterns, we have had significant impact in the areas of translational and clinical research. The Ohio State University Comprehensive Cancer Center is a good example of this, applying the bench-to-bedside philosophy and bringing new cancer therapeutics to clinical trial. The theme of experimental therapeutics bridges many disciplines, including the Ohio State's Heart and Vascular Center, with its expertise on devices to improve or sustain myocardial function, the Center for Microbial Interface Biology in new antibiotic development and the Ohio SLE Study investigating new immunomodulators for patients with lupus and lupus nephritis.

This work is facilitated by state-of-the-art research facilities such as Ohio State's Biomedical Research Tower and Davis Heart and Lung Research Institute. All of the Department's work is helped by the University's nationally funded Center for Clinical and Translational Science, which provides a number of resources for investigators.

In addition to departmental programs, the investigators in Internal Medicine work on multidisciplinary projects. An example of this is the collaboration between Ohio State's Diabetes Center and the Comprehensive Transplant Center to bring islet transplantation for diabetes a clinical reality. The Department of Internal Medicine at The Ohio State University has a vibrant, active and internationally known faculty. Faculty are very excited about involving trainees in their ongoing projects to expose future physicians to academic medicine. Please inquire with the Department's leadership if you would like to pursue research activities.
New Primary Care Track

Superior Ambulatory Providers
Opportunities to pursue a career focused on ambulatory-based and comprehensive primary care received a boost when OSU was selected one of the Primary Care Residency Expansion programs funded by Health Resources and Services Administration. Four positions are funded with each entering class starting in 2011-2012, and another four senior residents joined the new Primary Care Track to provide additional role models and mentorship. Ambulatory care education is emphasized by placing trainees in Continuity Practice Blocks every other month. Clinics have been relocated to a community-based, inner-city practice setting (CarePoint East) staffed by OSU IM faculty preceptors. Individualized scheduling flexibility allows for longitudinal growth in a variety of Primary Care interest areas.

Committed as a General Internist, but Ready for Anything
Primary Care Track Director Dr. Michael Langan (michael.langan@osumc.edu) guides a uniquely designed program. Robust inpatient training takes place at our four major hospitals (University Hospital East, OSU Main, Ross Heart and James Cancer Hospital) and is integrated with the traditional IM Categorical Track residents. University Hospital East is located down the street from CarePoint East and provides a community hospital experience. Added experiences relevant to Primary Care training include advanced office-based procedural training, a sports medicine requirement and longitudinal office-based quality improvement. Residents will connect with the Near East Columbus community, an ethnically and linguistically diverse and medically underserved community where residents can make a difference.

Primary Care Training Opens Up Diverse Career Opportunities
The nature of the training program prepares residents to care for the medically underserved, urban or rural, from diverse cultural and linguistic backgrounds. Many graduates will choose private or community-based practices, while others will likely seek opportunities to teach, contribute to public health efforts and/or involve themselves in other aspects of academics. The full horizon of primary care is explored through a dedicated Primary Care Journal Club, Primary Care Day events, enriched cultural competency training, opportunities to participate and present at regional and national meetings and dedicated project time.

Division of Cardiovascular Medicine

Leadership
William Abraham, MD
Director, Division of Cardiovascular Medicine
Professor of Internal Medicine, Physiology and Cell Biology
Deputy Director, Davis Heart and Lung Research Institute

Faculty
Sixty full-time clinical and research faculty, many of whom are internationally and nationally recognized experts in the field.

Patient Care
The Division offers comprehensive individualized care using the latest advanced technology to ensure the best outcomes. More than 4,500 inpatients and more than 35,000 outpatients are cared for annually at Ohio State’s Ross Heart Hospital and four community outreach clinics operated by the Division. As part of Ohio State’s Heart and Vascular Center, we have collaborative relationships with the Divisions of Cardiothoracic Surgery and General Vascular Surgery and with Nationwide Children’s Hospital, Section of Pediatric Cardiology.

Research
More than half of our faculty members are principal investigators for a variety of current research projects in both the laboratory and clinical research settings. Basic science research spans a wide spectrum of focus from mechanisms and treatment of ischemia-reperfusion injury, stem-cell therapy for myocardial infarction, mechanisms of vascular and mitochondrial dysfunction and innovative imaging methods for studying cardiovascular diseases. Clinical trials on new cardiovascular drug and device therapies are conducted in partnership with researchers, healthcare professionals and patients to improve patient care and outcomes. Trials are managed through the Heart and Vascular Research Organization, which brings together clinical and basic researchers in more than 100 clinical research projects, including investigator-initiated single-site studies, NIH-sponsored multisite trials and industry-sponsored trials. Studies focus on heart failure, interventional cardiology, sleep disorders, electrophysiology, non-invasive imaging, exercise/prevention, vascular biology, cardiac genotyping and pulmonary hypertension.

Education
As part of the only academic medical center in central Ohio, the Division is dedicated to training young physicians in the field of cardiovascular medicine, to develop clinical skills necessary of a competent cardiologist and to develop research skills required to be a successful academic physician. There are six fellowships offered within the Division: the Cardiovascular Fellowship Program; a fully accredited Cardiovascular Interventional Fellowship; a one-year Heart Failure Fellowship; a two-year Electrophysiology Fellowship; a five-year Adult Congenital Heart Disease Fellowship; and a one-year Cardiovascular Diagnostics Fellowship.

“Our Division is uniquely positioned to offer exposure to a large variety of complex cardiovascular pathophysiology under the supervision of expert faculty who view education as a priority.”

— Alex Auseen, MD, Director, Division of Cardiovascular Medicine Fellowship Training Program
Division of Dermatology

Leadership
Mark Brachtel, MD
Director, Division of Dermatology
Associate Professor

Faculty
Twenty-three faculty members provide dermatology expertise in patient care, education and research.

Patient Care
We offer both general dermatologic evaluation and accurate diagnoses, with the focus on putting each patient at ease as they deal with potentially emotionally distressing skin conditions. We specialize in contact dermatitis patch testing, phototherapy, dermatologic surgery and Mohs micrographic surgery. We also conduct medical dermatology clinics for complicated and high-risk patients.

Research
In addition to clinical trials, the Division also conducts basic research focusing on the pathogenesis of T cell lymphoma. The long-term goals are to identify biomarkers to improve the accuracy for diagnosis, to monitor response to therapy and to aid the development of novel treatments.

Education
Our categorical residency program, accredited by the Accreditation Council for Graduate Medical Education, includes seven residents and a dermatopathology service with two fellows. Generally, two residents are taken into the four-year program annually. Following specially designed first-year preliminary studies in internal medicine, each resident spends three years learning dermatology through both extensive clinical experience and comprehensive didactic sessions. Clinical experience is gained at a variety of outpatient community, inpatient consult, VA and correctional facility clinics, as well as at specialty clinics in cutaneous lymphoma, severe psoriasis, complex medical dermatology and severe dermatitis.

Division of Endocrinology, Diabetes and Metabolism

Leadership
Kwame Osei, MD
Director, Division of Endocrinology, Diabetes and Metabolism
Professor of Internal Medicine

Faculty
Established 40 years ago, the Division of Endocrinology, Diabetes and Metabolism is one of the oldest true divisions in the field of endocrinology. Members of the Division have made important advances in the fields of diabetes, thyroid cancer, lipid and lipoprotein metabolism and the biology of gut hormones. The faculty of the Division includes clinicians and clinician-scientists who are nationally and internationally recognized experts in the areas of diabetes and its metabolic consequences, thyroid and adrenal cancer and osteoporosis.

Patient Care
In addition to our world-class team of physicians, staff and researchers focused on improving care for patients with type I and type II diabetes, we are a regional and national center for the care of patients with adrenal, pituitary and thyroid diseases, especially thyroid cancer. The Division provides unprecedented subspecialty care for patients with metabolic diseases (including morbid obesity), metabolic bone disorders and osteoporosis and genetic diseases affecting the endocrine organs.

Research
The Division of Endocrinology, Diabetes and Metabolism is highly active in research, particularly in both clinical and basic research projects. Our diabetes clinical research projects are focused on the metabolic aspects of diabetes and on optimizing in-hospital care for patients with diabetes. Ohio State is one of the only programs in the country studying islet cell transplantation as a means to treat type 1 DM. In addition, the Division has ongoing research in the genetics of osteoporosis and a long-standing history of clinical research in benign and malignant thyroid disease. Faculty members with joint appointments at The Ohio State University Comprehensive Cancer Center are actively engaged in clinical trials for thyroid, neuroendocrine and adrenal cancer. For basic research projects, the Division houses NIH-funded investigators studying thyroid and endocrine neoplasia. Ohio State has received the only NIH-supported Program Project grant in the area of thyroid cancer, which brings together researchers from the Division with other researchers on campus interested in this disease. In addition to research carried out directly by faculty members, there are opportunities to interact with clinical and basic faculty from other divisions whose interests overlap the broad scope of endocrinology.

Education
We offer our expertise in training physicians and students, as well as paramedical staff at local, regional, national and international levels. Our Endocrinology, Diabetes and Metabolism fellowship program is a fully accredited two- or three-year program designed to prepare trainees for competence in academic and clinical careers. Through clinical rotations, research and conferences, trainees gain experience in pathophysiology, evaluation and treatment of a broad spectrum of endocrine disease, including pituitary, thyroid, neuroendocrine, adrenal, gonadal, pancreatic, lipid and metabolic bone diseases in adult and pediatric patients. The Division hosts biennial national meetings on thyroid cancer and bone biology, and recently hosted an international meeting on diabetes with attendees and speakers from five continents discussing the latest enhancements in diabetes care.

The Division is recognized and cited as being in the top 3 percent of all American hospitals in the specialty of endocrinology by the U.S. News & World Report survey of America’s Best Hospitals. In the 2011 report, the Division received the highest ranking among Internal Medicine subspecialty programs at Ohio State.
Division of Gastroenterology, Hepatology and Nutrition

“On our residents receive a balanced exposure to both gastroenterology and hepatology through their clinical experiences on the ward, on consults, in the clinic and because of the expert team of faculty attendings and mentors.”

— Robert Kirkpatrick III, MD, Fellowship Program Director, Division of Gastroenterology, Hepatology and Nutrition

Faculty

Twenty-one faculty members have diverse procedural expertise and research interests.

Patient Care

The Division of Gastroenterology, Hepatology, and Nutrition is a rapidly expanding division. Our Division’s current “Teacher of the Year.” Residents and fellows benefit from elective projects as interns. The last decade has been one of growth for the Division in the areas of hepatology, GI malignancy and GI motility, as well as in the clinical applications of endoscopic ultrasound. Investigation of inflammatory bowel diseases has been targeted as an area of programmatic expansion. Interested residents and the nine fellows take advantage of individualized mentoring for clinical and lab-based projects. Residents can get started with projects as interns.

Research

The Division has a track record of excellence in both clinical and basic research, presenting findings at national meetings and publishing results in high impact journals. The last decade has been one of growth for the Division in the areas of hepatology, GI malignancy and GI motility, as well as in the clinical applications of endoscopic ultrasound. Investigation of inflammatory bowel diseases has been targeted as an area of programmatic expansion. Interested residents and the nine fellows take advantage of individualized mentoring for clinical and lab-based projects. Residents can get started with projects as interns.

Education

The GE2 GI/Hepatology Ward service is an excellent inpatient experience led by the Division’s current “Teacher of the Year.” Residents benefit from elective rotations on the Department of Internal Medicine’s busiest inpatient consult service and the state-of-the-art ambulatory clinic suite. Senior residents may choose to rotate through the advanced GI elective. This experience offers in-depth exposure to advanced endoscopic procedures and outpatient specialty clinics, as well as additional consultative experience. Gastroenterology is highlighted within the fundamentals of Internal Medicine introductory lecture series and throughout the year in Tuesday Block conferences and Morning Reports. The fellowship program is highly sought-after by applicants from across the country. A one-year Advanced Gastroenterology Procedures fellowship is an option for those completing the three-year fellowship program.

Division of General Internal Medicine

“Whether you’re seeking a career in medical practice, research or teaching, Ohio State’s Division of General Internal Medicine offers a dynamic learning environment for medical students and residents. As frontline providers of primary care medicine, you will have an opportunity to train alongside faculty with research programs in many areas including genomics, personalized medicine, point-of-service testing, medical education and health outcomes. More than half of our faculty are actively providing important leadership in education within the College of Medicine, the Department of Internal Medicine and The Ohio State University Medical Center. We are striving to advance our knowledge and treatment for personalized care through an innovative and comprehensive clinical, educational and research environment.”

— Linda Strout, DO, Director, Division of General Internal Medicine

Faculty

Twenty-six faculty members provide comprehensive patient care, innovative educational opportunities and a progressive research environment.

Patient Care

As one of the largest divisions in the Department of Internal Medicine, we care for more than 60,000 patients, a year including those in underserved areas of Columbus through three central Ohio community sites. In November 2010, we launched a new primary care practice at CarePoint Lewis Center in cooperation with the Department of Family Medicine and opened a fifth General Internal Medicine ambulatory site in July 2011 within the new CarePoint East facility.

The Department of Health and Human Services Health Resources and Services Administration recently awarded our Division a $3.8-million five-year grant to develop a primary care residency track. We began training eight interns and residents in the fall of 2011. We continue to develop our existing Diabetes, Post-Hospital Discharge and Coma Pain Clinics within the Morehouse practice by integrating residents, a clinical social worker, Pharmaceutical staff and PharmD students to enhance the overall mission across disciplines. The Morehouse practice was recently awarded the highest approval level (3) from the NCQA for its work as a Patient-Centered Medical Home (PCMH). The Stoneridge, Grandview and Lewis Center practices will join Morehouse in beginning the PCMH implementation process. Our comprehensive and proactive approach to pain management, has demonstrated dramatic improvements to quality of care and the promotion of a more positive approach to patient care in the residency clinic.
Research
Our highly collaborative research projects continue to grow in number and include:

• In the fall of 2010, we began participating in a genetics project with the Coriell Institute to evaluate newly-diagnosed patients with hypertension.

• “Teaching to the Core” grant completed (C. Curren, MD, and L. Gaabel, PhD). Medical Home Model for patient care: pairing a medical assistant to work with a physician on a regular basis.

• Efficacy of Quinapril plus Alpha Lipoic acid on Patients with Insulin Resistance Syndrome — A Randomized Crossover Study; Cirsaif.

• Monti grant awarded and research in progress by G. Gnanasekaran, MBBS.

• Developing a plan to work collaboratively with the Division of Hospital Medicine and the Department of Surgery to create a medical system wide approach to perioperative care, including standardization of preoperative consultation exam.

• Health Resources and Services Administration — The Patient Safety & Clinical Pharmacy Services Collaborative Learning Sessions geared toward improving patient care by collaborating on the improvement and integration of the healthcare delivery systems to maximize use of our clinical pharmacy services and safe medication practices.

• Remote Home Blood Pressure Monitoring: A Feasibility Study; N. Tayal, MD.

• Putting the ABIM Charter into Practice for Central Ohio Physicians, expand upon our previous work using innovations in education and leadership to advance professionalism: C. Ledford, MD.

• A protein and energy dense nutritional supplement containing Eicosapentaenoic Acid improved lean body mass in patient with head and neck cancer; Harrison Weed, MD.

• Medication regulating mitochondrial thiol-redox and function in oxidative stress in humans—A holistic therapeutic approach for neurobehavioral disorders: OIA Gateway Seed Grant; G. Gnanasekaran, MD.

Education
The Division’s significant presence in community neighborhoods provides a valuable place for residents and students to learn how to provide exceptional, cost-effective care for individuals. We are a major source of medical student training in physical diagnosis, doctor-patient relationships, geriatrics and ambulatory primary care, and for medical resident training in prevention and primary care with a traditional GIM residency program as well as a new primary care track.

The Division also houses the Geriatric Medicine Fellowship program. We are accredited for one fellow a year, and the Fellowship provides one year of clinical training in outpatient and consultative geriatrics and nursing home care, with rehabilitation, palliative care and dementia rotations. Trainees interested in clinical careers in geriatrics sit for the Boards after one year. However, there is an optional second year with a research focus that prepares graduates for an academic career in geriatrics.

“Medical students and residents receive broad exposure to many different aspects of hematology. Medical students rotate monthly through lymphoma, myeloma and benign hematology inpatient service, as well as many of the specialty hematology clinics. Residents have access to the same rotations, but can also choose elective rotations in leukemia, blood and marrow transplantation and hematology consultation.”
— Kristie Blum, MD, Director, Hematology/ Oncology Fellowship Training Program

Division of Hematology

Leadership
John Byrd, MD
Director, Division of Hematology
Professor of Medicine and Medicinal Chemistry
D. Warren Brown Chair of Leukemia Research

Faculty
The Division of Hematology comprises 35 faculty members, including 29 physicians/physician scientists and six PhD researchers. The major focus in the Division of Hematology is performing transformative research for the treatment of benign and malignant blood cancers that translates basic findings to the bedside where new therapies are applied. Additionally, the Division is proactive in the introduction of novel treatment approaches in bone marrow transplantation with national leadership in both the Cancer and Leukemia Group B (CALGB) and Clinical Trials Network. The Division of Hematology is highly committed to training basic, translational and clinical physician scientists both as part of the Internal Medicine residency program and also as fellows in the Hematology and Medical Oncology Fellowship program.

Patient Care
Our vision: Creating a cancer-free world. One person, one discovery at a time.

The Division of Hematology provides innovative, personalized patient care through Ohio State’s Comprehensive Cancer Center – James Cancer Hospital and Solove Research Institute. Specific clinical subspecialty treatment teams focus on myeloid, myeloma, benign hematogy, chronic lymphocytic leukemia and lymphoma. The Blood and Marrow Transplant (BMT) program has earned international recognition for advancements in treating cancer. For example, our program developed and demonstrated the effectiveness of a radiation-free preparative regimen for bone marrow transplantation that is used throughout the world for treating diseases, such as chronic myelogenous leukemia. Our program was also one of the first to recognize the benefit of the effectiveness of the donors’ immune system in fighting a patient’s leukemia. A comprehensive BMT program, we offer transplants for a wide variety of diseases using either the patient’s own stem cells or those donated by a family member or an unrelated volunteer.

Research
The Division’s research focuses on discovering biologic mechanisms underlying the development of hematologic malignancies, searching for genetic and epigenetic aberrations that modify response to treatment and developing novel drug therapies for targeting specific molecular alterations in patients with hematologic malignancies. A common goal in the Division is to move rapidly toward personalized therapy programs tailored to individual patients based on the genetic and therapeutic makeup of their diseases. To pursue this goal, basic researchers and clinicians in the Division work side-by-side to ensure that each novel discovery made in the laboratories is utilized for designing novel therapeutic strategies. Each observation made in the clinic is carefully considered to understand the basic mechanisms of hematologic malignancies at the bench.

The Division is highly recognized for its scientific achievements. Recently, the National Cancer Institute (NCI) awarded one of only two Leukemia Specialized Programs of Research Excellence (SPORE) grants to Dr. John Byrd, Division director. Dr. Byrd was also awarded a prestigious Specialized Center of Research (SCOR) grant by the Leukemia & Lymphoma Society of America. The Division of Hematology is the only division in the country to have been awarded both of these grants.

The Division also participates in clinical trials and correlative science studies conducted by the Cancer and Leukemia Group B (CALGB), a multidisciplinary national cooperative clinical cancer study group funded by the NCI. Members of the Division are currently chairs or members of several CALGB committees and lead CALGB clinical trials in leukemia and lymphoma. The Division also includes a superb benign hematology service with access to cutting-edge clinical trials to patients with coagulation, hemoglobin and other rare hematologic disorders.

Education
The Division of Hematology collaborates with the Division of Oncology to oversee the combined Hematology and Medical Oncology fellowship program. The program offers two distinct tracks:

• The three-year hematology/oncology training program, which offers trainees dual board eligibility in hematology and oncology in accordance with the American Board of Internal Medicine standards.

• Two-year medical oncology training program, which offers trainees board eligibility in medical oncology in accordance with the American Board of Internal Medicine standards.

• Both tracks offer intensive clinical training (18 months for dual certification and 12 months for oncology certification) and protected research time.

“The Division offers clinical electives in geriatric medicine, appropriate for all medical students, geriatricians as role models, a geriatrics fellowship and several didactic presentations a year of the fellow, resident and medical student level.”
— Robert Morden, MD, Director, Geriatrics Fellowship Training Program
Division of Hospital Medicine

Leadership
Nathan O’Dorisio, MD
Director, Division of Hospital Medicine
Assistant Professor

Faculty
Thirty faculty members, 11 of whom are dual trained in Internal Medicine and Pediatrics, provide inpatient care throughout Ohio State’s Medical Center.

Patient Care
Now entering our ninth year of service, we are active in a variety of care models. This includes the General Medicine house staff teaching service as well as attending-only services. We provide inpatient hospital care including service lines in cardiology, hematology/oncology, pulmonary, orthopedics and general medicine. We have an active consultative service for General Medicine across the Health System. Unique to Ohio State is our combined Med/Peds service at Nationwide Children’s Hospital, which serves both as a pediatric hospitalist model and as an adult consultative service for those patients who are hospitalized at Nationwide Children’s Hospital, but are older than the age of 18 — particularly adults with congenital diseases.

Research
We lead a quality initiative in DVT (deep venous thrombosis) prevention and sit on the Hospital’s Quality Improvement Board, as well as on the Pharmacy and Therapeutic committees. The Division published “Just the Facts: Hospital Medicine” as well as multiple publications in national journals.

Education
While continuing a busy clinical practice, the Division has been very successful with teaching and academics, including managing the house staff teaching services. Our faculty led several committees within the College and the Department of Internal Medicine, including clerkship directorates, quality improvement, third- and fourth-year medical students and the Internal Medicine residency.

“We offer an opportunity to work with specialists in the care of inpatient medicine, including transition of care, co-management with subspecialists and surgical services. As a member of the fastest-growing medical specialty in recent years, we continue to provide individual patient/educational contact, as well as a chance to work in close collaboration with the attending physician and the entire team.”
— Nathan O’Dorisio, MD, Director, Division of Hospital Medicine

Division of Human Genetics

Leadership
Albert de la Chapelle, MD, PhD
Interim Division Director, Division of Human Genetics

Judith Westman, MD
Clinical Director, Division of Human Genetics, Clinical Cancer Genetics Program and Medical Genetics Program

Faculty
Nine full-time faculty members and six active faculty members with joint appointments in the Division, several of whom provide leadership in national organizations, have unique expertise in genetic risk assessment and counseling, education and research.

Patient Care
Targeting adult onset disorders, we provide consultation services to the people of Ohio and surrounding states, as well as expert consultations to physicians and other professionals. Our patients receive comprehensive assessment of their cancer or other risks from a consultation team consisting of a genetic counselor and a physician, coordination of genetic testing when appropriate and recommendations for modification of health management. New programs have been developed to assist in surgical and medical decision-making for individuals with newly diagnosed breast or ovarian cancers. We have developed partnerships with Genesis HealthCare System in Zanesville (Ohio) and with Holzer Health Systems in Gallipolis (Ohio) that enhance accrual to our cancer genetics research protocols as well as ensure comprehensive patient care in cancer genetics in central and southeast Ohio.

Research
The Division coordinates clinical-genomic databases, specimen repositories and the use of both-in-house and referral diagnostic facilities to support clinical research in human genetics, giving patients and physicians in the community at large free access to human genetics research protocols. Our staff enrolls around 1,600 individuals in nontherapeutic research each year, mainly to the approximately 20 studies initiated by Ohio State investigators. In addition, we collect samples (blood, mouthwash tumors, etc.) from around 2,200 individuals each year for research purposes.

A new collaboration has been announced with Ohio State’s Center for Personalized Health Care and the Coriell Institute for Medical Research, which expands the Division’s existing emphasis on using genetics and genomics in the personalization of health care. Family History collection is the most established tool for personalized health care. The Division developed Family-HealthLink, a user-friendly online tool that estimates familial risk for both cancer and coronary heart disease. It is a free service that is designed to help individuals learn more about their risks and the steps that can be taken to focus on prevention efforts. It can be found at https://family.healthlink.osumc.edu.

The Division provides numerous local, regional and national educational talks along with leadership in national organizations such as the National Society of Genetic Counselors, the American Board of Genetic Counseling and the National Board of Medical Examiners.
Division of Cancer Prevention and Control

Leadership
Electa Paskett, PhD
Chair, Division of Cancer Prevention and Control
Joint Professor
Marvin N. Rowley Chair in Cancer Research Epidemiology

The Division of Cancer Prevention and Control (CPC) was established in May 2010. The Division has three goals: to foster the development and growth of the Population Sciences research program of Ohio State’s Comprehensive Cancer Center (OSUCCC), as well as Population Sciences research within the College of Medicine (COM); to facilitate the professional development of fellows and junior faculty within the Department of Internal Medicine (DIOM) in relation to Population Sciences and clinical research; and to provide expertise to other investigators in the DIOM and COM regarding Population Sciences, health outcomes and comparative effectiveness research. This is a nonclinical division.

Key accomplishments in the last year:
- This new division was formed and faculty and a post-doc were hired.
- Large NCI-funded grants were competitively renewed: PSO Center for Population Health and Health Disparities ($10 million TDC) and Appalachian Community Cancer Network through sub-contract with the University of Kentucky — $14 million TDC to Ohio State); strong publication record; strong research grant base.
- Continued contribution to NCI cooperative groups in leadership positions (committee chair and role in new alliances) and protocol chair, as well as renewal of CALGB CCOP Research Base grant.
- Recognition to DIOM, COM and OSU through service: ASPO president, NIH study section member, deputy editor of journal, Cancer Epidemiology, Biomarkers and Prevention, and chair of multicenter, large NCI-funded initiatives (PNRP, CPHHD).
- Teaching/Mentoring: Seven high school students, 13 undergraduates, 18 graduate students, six doctoral students, one post-doctoral student, one medical student, three junior faculty and two other faculty.
- Continued contribution to NCI cooperative groups in leadership positions (committee chair and role in new alliances) and protocol chair, as well as renewal of CALGB CCOP Research Base grant.
- Recognition to DIOM, COM and OSU through service: ASPO president, NIH study section member, deputy editor of journal, Cancer Epidemiology, Biomarkers and Prevention, and chair of multicenter, large NCI-funded initiatives (PNRP, CPHHD).
- Teaching/Mentoring: Seven high school students, 13 undergraduates, 18 graduate students, six doctoral students, one post-doctoral student, one medical student, three junior faculty and two other faculty.
- NCI-funded initiatives (PNRP, CPHHD).

Division of Infectious Diseases

Leadership
Susan Koletar, MD
Director, Division of Infectious Diseases
Professor of Internal Medicine
Stanley Martin, MD
Associate Director, Division of Infectious Diseases Fellowship Training Program

Faculty
The Division of Infectious Diseases comprises 23 faculty members who are national and local leaders in a broad array of interests, spanning the basic sciences to translational research, watch clinical expertise in the diagnosis and treatment of infections, microbial epidemiology and infection control.

Patient Care
From the healthiest and most stable of ambulatory patients in the outpatient clinics to the sickest of the sick in our intensive care units, infectious diseases experts are called upon to offer insight and provide expertise in a comprehensive way to their care. The Division offers subspecialty care for HIV-infected patients, surgical patients, the critically ill and transplant- and other medically immunocompromised hosts, as well as oversight in the Columbus Department of Public Health’s sexual health and tuberculosis clinics. Faculty and fellows currently operate five inpatient consult services: two general ID consult services, one transplant service, one cancer-specific service and one service at Ohio State’s University Hospital East. These services see anywhere from 50 to 100 new patients monthly and interact with every group of physicians and surgeons participating in patient care at Ohio State. Our ambulatory clinic sees a large portion of patients in follow-up after leaving the hospital, manages outpatient antimicrobial use and cares for the largest HIV-infected population in the state of Ohio.

Research
Research activities in the Division of Infectious Diseases cover every aspect of the field. Currently, we operate one of the country’s largest AIDS Clinical Trials Units (ACTU) and engage in a broad array of multicenter clinical trials regarding the treatment and management of HIV. Along with the newly founded Department of Microbial Infection and Immunity in the College of Medicine, faculty and fellows participate in basic science and translational research involving intracellular bacterial and fungal pathogens such as tuberculosis and histoplasmosis, as well as parasitology and antiparasitic pharmacology, HIV mother-to-child transmission and gastrointestinal bacterial pathogenesis. Clinical research is also a big part of the Division, with ongoing funded investigations in multicenter epidemiology of drug-resistant pathogens in the healthcare setting such as MRSA, C. difficile and multidrug-resistant Gram negative bacteria. Other clinical research involves women’s sexual health epidemiology, international health, antimicrobial usage, osteomyelitis, tuberculosis and transplant patients. Faculty members also engage in research of medical education and evidence-based medicine practices.

Education
The Division is dedicated to the training of fellows in the field of infectious diseases, and our program has been in operation for more than 30 years. Creating the next generation of infectious diseases experts is a central tenet to what we do as a division. Our fully accredited two-year program has the option of a third year for those interested in pursuing a career in academics. Currently, we enroll three new fellows into our program every year and offer experiences in every subspecialty field within infectious diseases.
Division of Medical Oncology

Leadership
Miguel Villalona-Calero, MD
Director, Division of Medical Oncology
Director of Solid Tumor Experimental Therapeutics
Professor of Internal Medicine and Pharmacology

Faculty
Twenty-four faculty members, many of whom are nationally and internationally recognized experts, are focused on individual solid malignancies. We offer innovative, state-of-the-art personalized care and access to clinical trials featuring novel therapeutic agents and bench-to-bedside translational science.

Patient Care
Clinical care of adult patients is primarily delivered in Ohio State’s Comprehensive Cancer Center – James Cancer Hospital and Solove Research Institute and its nearby outpatient facilities. The OSUCCC – James is a 180-bed, free-standing cancer hospital. Outpatient facilities include the new 110,000-square-foot JamesCare Comprehensive Breast Center, the 70,000-square-foot Martha Morehouse Medical Plaza for Solid Tumor Oncology and Ohio State’s University Hospital East. Approximately 1 million square feet of new space for the new OSUCCC – James is currently under construction. These new centralized research and clinical facilities will provide a 302-bed cancer hospital, surgery, radiation therapy, all cancer outpatient clinics and wet/dry research space.

Research
Early phase I/II clinical trials through the National Cancer Institute (NCI) continue to be the focus of the Division, which is also a major scientific and accrual contributor to the Cancer and Leukemia Group B. Members of the Division participate in a PO1 grant focused on thyroid cancer; a Lance Armstrong Survivorship Center grant, a U01 grant and a NO1 contract for early therapeutics trials of novel agents with phase 1 and 2 intent, as well as R01, R21, K awards and foundation grants focused on improving outcome for patients’ diseases. The faculty are also on the forefront of investigation on the anticancer properties of phytochemicals derived from food products for both cancer prevention and therapy and on the study of pathogenesis, prevention and therapeutics of virus associated cancers. The Division continues to make progress obtaining new programmatic grants, R01 and R21 grants and renewing long-standing grants, and is vigorously expanding its clinical and research faculty.

Education
The multidisciplinary tumor-focused clinics and the faculty disease-specific expertise provide for an exceptional training experience. Recent endeavors will expand our ability to train outstanding translational physician scientists in the areas of experimental therapeutics, immunology and prevention over the next several decades. Fellows have access to T32 support and to Pelotonia (annual bike ride to support cancer research) fellowship funds. Drs. Byrd (from the Division of Hematology), Ottenson and Devine, together with Dr. Carson from Ohio State’s Department of Surgery (Division of Surgical Oncology), put forth a K12 grant to fund institutional training of MD and PhD scientists focused on drug development in cancer therapeutics that was funded and now supports salary and research for four junior faculty members.

The leaps in understanding of the drivers of malignancies that have occurred over the last few years and the rapid application of these discoveries into therapeutic gains make the programs with strong training in clinical trials and experimental therapeutics the best bet for aspiring academic and community oncologists alike. Our combined Hematology and Oncology fellowship will continue to be among the leaders in this field.”
— Miguel Villalona-Calero, MD, Director, Division of Medical Oncology

Division of Nephrology

Leadership
Brad Rovin, MD
Director, Division of Nephrology
Professor of Internal Medicine and Pathology

Faculty
Sixteen clinical faculty members provide inpatient nephrology and transplant medicine services, three consult services and outpatient care. Two PhD scientists work with clinical faculty in the division laboratories.

Patient Care
Ranked among the top nephrology programs in the country by U.S. News & World Report for the last five years, the Division provides state-of-the-art care for patients with chronic kidney disease (CKD), acute kidney injury, hypertension, glomerulonephritis, electrolyte and acid-base disorders and solid organ transplants. Additionally, our faculty care for more than 200 patients with end-stage kidney disease on renal replacement therapy at nine dialysis clinics. Many of our members serve as medical directors of dialysis units, providing clinical oversight of these centers. Two unique features of the program are a busy interventional nephrology clinic for care and maintenance of dialysis access, and a multidisciplinary lupus/vasculitis/glomerulonephritis clinic with the Division of Rheumatology and Immunology.

Research
We are engaged in basic science and translational and clinical research designed to define mechanisms of kidney disease and identify and test new therapeutics for treating kidney diseases. The Division is recognized internationally for its work in the areas of systemic lupus erythematosus, urine biomarker discovery, anemia of chronic kidney disease and calcium-phosphate homeostasis in chronic kidney disease. Research is supported by grants from the NIH, private foundations and the pharmaceutical industry. Division researchers recently were awarded three grants from the NIH: the SPRINT grant will study the effect of blood pressure control on hypertensive chronic kidney disease patients; the GO grant was awarded to identify genetic risk factors for the progression of lupus nephritis to end-stage renal disease or irreversible renal failure; and the CKD Biomarker Consortium was awarded to identify predictors of CKD early in a patient’s course so therapies to prevent CKD/ESRD can be developed.

Education
We are engaged in the educational process at every level, including medical school, internal medicine residency, nephrology fellowship and continuing medical education. We offer clinical rotations in outpatient settings, on hospital ward teams and on hospital consult teams. Trainees can gain experience in the evaluation and management of patients with a wide variety of conditions including acute kidney injury, chronic kidney disease, end-stage kidney disease, hypertension and kidney stones. We have a dedicated multidisciplinary clinic for glomerular diseases. Several of our faculty members perform the full spectrum of interventional nephrology procedures. A team of four transplant fellowship-trained faculty manages patients with kidney, pancreas and liver transplants. Our Fellows have at least three hours per week of formal didactics. These include clinical cases, renal pathology and a core curriculum.

Several faculty members serve on committees for the National Kidney Foundation, the American Society of Nephrology, the Lupus Foundation of America, editorial boards for the major nephrology journals, NIH study sections and scientific advisory boards for major pharmaceutical companies.

“’We offer the opportunity to learn nephrology by participating in clinical care as well as in formal didactics and nephrologic research with guidance from 18 expert faculty.”
— Chris Veletakis, MD, Associate Program Director, Internal Medicine Residency Training Program

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— Miguel Villalona-Calero, MD, Director, Division of Medical Oncology
Leadership
Stephen Hoffmann, MD
Interim Director, Division of Pulmonary, Allergy, Critical Care and Sleep Medicine
Associate Professor of Clinical Internal Medicine

Faculty
Ranked 25th nationally for Respiratory Disorders in 2011 by U.S. News & World Report, the Division of Pulmonary, Allergy, Critical Care and Sleep Medicine (PACCS) provides an innovative teaching environment, participates in exciting patient care advancements through clinical, translational and basic science research and provides excellent clinical care at a variety of locations. The Division is made up of 15 PhD and 34 MD faculty (17 of whom were chosen among The Best Doctors in America®, a list published by Best Doctors, an international company affiliated with Harvard University School of Medicine) as well as numerous clinical and research professionals.

Patient Care
The Division provides care to all critical care patients within Ohio State’s Medical Center in four ICUs with three different care models including a traditional house staff model, an NP-run model and co-management with a hospitalist. Our faculty see a diverse array of pulmonary, allergy and sleep medicine patients in both inpatient and outpatient settings. We have developed a number of programs in areas of special interests including asthma, ARDS, cystic fibrosis, emphysema, HIV-associated lung disease, interstitial lung disease, interventional pulmonology, lung cancer, pulmonary hypertension, pulmonary rehabilitation, pulmonary transplantation, sepsis and sarcoidosis.

Research
We continue to have an active and vibrant research portfolio of basic science and translational and clinical research. Last year, Division staff received more than $8.5 million in research funding and had 65 active clinical trials and numerous collaborative research projects both on campus and with institutions around the world. Among the Division’s efforts are clinical trials being conducted in critical care, asthma, emphysema, acute respiratory distress syndrome, HIV-associated lung disease and pulmonary therapeutics. Basic research efforts include exploration in cell signaling, cell survival and apoptosis, respiratory muscle physiology, pathogenesis of Multiple Organ Dysfunction Syndrome and the regulation of inflammation in the lung. Among recent projects were:

• Ongoing participation in the Long-Term Oxygen Treatment Trial (LOTT)
• Evaluating weakness in critically ill patients
• Examining the prevalence of obstructive sleep apnea in patients with chronic wounds
• Studying the utilization of steroids in pregnant asthmatics
• Evaluating the correlation between nutritional zinc status and sepsis
• Discovering the role of microRNA in pulmonary fibrosis
• Evaluating the role of microRNA in host interactions with pulmonary pathogens
• National multicenter study validating a lung cancer risk test among high-risk smokers
• Studying the effect of smoking cessation on lung innate immune function in HIV-infected individuals

Education
The Division also maintains four fellowship programs: pulmonary/critical care medicine, sleep medicine, allergy/immunology and interventional pulmonary medicine. The overall goal of our fellowship programs is to provide fellows with well-rounded training programs designed to enhance their clinical skills and scientific knowledge and provide the tools necessary to develop their research skills. Our programs offer an outstanding balance in clinical training, educational activities and both basic and patient-oriented/translational research. We offer state-of-the-art facilities, a diverse patient population, the full spectrum of specialized clinical programs and basic science and clinical research opportunities. The Division also has an established basic science training program with a T32 training grant and a formal training program in clinical research, with established collaborations across The Ohio State University.
Division of Rheumatology and Immunology

Leadership
Wael Jarjour, MD
Director, Division of Rheumatology and Immunology
Associate Professor of Internal Medicine

Kevin Hackshaw, MD
Director, Division of Rheumatology and Immunology Fellowship Training Program

Patient Care
Nine division faculty members provide specialized care for patients with a varied spectrum of clinical disorders, ranging from autoimmune disorders to degenerative musculoskeletal diseases. Our outpatient clinics serve a large, diverse patient population that spans the range of rheumatic diseases. Most clinic services are provided at CarePoint East. Outpatient care is also provided at Stoneridge Internal Medicine and CarePoint Gahanna. Our multidisciplinary clinic for the care of patients with lupus or systemic vasculitis is located at CarePoint East. University Hospitals East is the primary inpatient facility for rheumatology and immunology patients.

Research
The Division’s research effort is focused primarily on systemic autoimmune diseases. Many of our projects involve collaboration with faculty across campus that brings researchers together to enhance our understanding of rheumatic diseases and to improve the care of patients with these diseases. Areas of special interest include gender bias in autoimmune diseases, biomarkers in lupus, cardiovascular diseases in lupus, transition of care for patients with rheumatic diseases from adolescence to adulthood and osteoporosis. Researchers in the Division are also involved in clinical trials that are examining the next generation of therapeutics for many rheumatic diseases including osteoporosis, inflammatory arthritis, systemic lupus erythematosus and osteoarthritis.

Education
The Division continues to make advances in academic excellence and research while serving the University and the community in the clinical setting. Our faculty strives to create an exciting learning environment for fellows, residents and medical students by teaching clinical rheumatology concepts in the clinics and in didactic conferences. The goal of the educational effort is for the learner to develop a basic understanding of pathophysiology, epidemiology, clinical manifestations and diagnosis of various rheumatic diseases. The Division offers an ACGME-accredited fellowship program and has trained an average of two fellows per year since 2000. The Division also hosts an annual musculoskeletal ultrasound conference that attracts rheumatologists from academia and private practice for its hands-on approach.

The Ohio State University Medical Center Expansion

A $1-billion construction project including a new OSUCCC – James expansion broke ground in 2010, representing the largest development project in The Ohio State University’s history. A massive undertaking, the expansion endeavors to build a centralized, ecofriendly health and research environment that supports high-quality, patient-centric, personalized medicine — in addition to creating more than 10,000 full-time jobs over the course of the expansion.

Once complete, the new Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, a new critical care building, as well as integrated, state-of-the-art research facilities will provide scientists, researchers and clinicians with a single collaborative environment for research, education and patient care.
About Columbus

Columbus offers a diverse range of cultural and artistic events, sports, restaurants, festivals and more — all within close proximity to the Medical Center.

As one of the fastest-growing metropolitan areas and the 16th largest city in America, Columbus offers many cultural and entertainment advantages. The Columbus Symphony Orchestra, ProMusica Chamber Orchestra, BalletMet and Opera Columbus are all regional leaders. Art lovers will appreciate the collections and exhibits displayed at the Columbus Museum of Art and the Wexner Center for the Arts, as well as the variety of art galleries tucked among the mix of specialty shops and eateries in Columbus, Short North and Arena District. The Franklin Park Conservatory, Ohio’s Center of Science and Industry, the Lifestyle Communities Pavilion and the nation’s top-ranked Columbus Zoo and Aquarium offer additional leisure activities. Theater companies, popular music venues and nightclubs are also available, and the city is known for its wide variety of excellent restaurants.

Nature lovers have easy access to some of the most breathtaking parks and scenic rivers in the Midwest, offering hiking, camping, biking and boating activities. Nearby glacier-carved gorges, waterfalls and towering cliffs provide opportunities for exploring some of the area’s natural wonders, including Hocking Hills State Park, located just an hour away in the foothills of the Appalachian Mountains.

In addition to Ohio State Buckeyes football, sports fans can enjoy the NHL’s Columbus Blue Jackets, the National MLS Champion Columbus Crew men’s professional soccer team and the Columbus Clippers, the AAA-affiliate of the Cleveland Indians. The PGA Memorial Golf Tournament is held annually at Jack Nicklaus’s Muirfield Village Golf Club and thousands of runners participate each fall in the Columbus Marathon.

To learn more about Columbus, visit:
liveworkplaycolumbus.com
metroparks.net
experiencecolumbus.com
columbusunderground.com

Contact Us

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http://www.internalmedicine.osu.edu/cardiovascular/

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Gastroenterology
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General Internal Medicine
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http://internalmedicine.osu.edu/general/education/geriatricfellowship/index.cfm

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Allergy/Immunology Fellowship
http://internalmedicine.osu.edu/pulmonary/education/allergy-immunology-fellowship-program/index.cfm

Sleep Medicine Fellowship
http://internalmedicine.osu.edu/pulmonary/education/sleep-medicine-fellowship-program/index.cfm

Palliative Medicine
http://www.palliativecare.osu.edu/

Rheumatology
http://internalmedicine.osu.edu/rheumatology/

Cancer Prevention and Control
http://cancer.osu.edu/research/cancerresearch/researchprograms/cancercontrol/members/Pages/index.aspx?mid=239