Vanderbilt University Medical Center







Medical Center

Medical Center School of Medicine Hospital and Clinic

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Vanderbilt University 2005/2006

Containing general information and courses of study for the 2005/2006 session corrected to 30 June 2005 Nashville The University reserves the right, through its established procedures, to modify the requirements for admission and graduation and to change other rules, regulations, and provisions, including those stated in this bulletin and other publications, and to refuse admission to any student, or to require the withdrawal of a student if it is determined to be in the interest of the student or the University. All students, full- or part-time, who are enrolled in Vanderbilt courses are subject to the same policies.

Policies concerning non-curricular matters and concerning withdrawal for medical or emotional reasons can be found in the *Student Handbook*.

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In compliance with federal law, including the provisions of Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, Vanderbilt University does not discriminate on the basis of race, sex, religion, color, national or ethnic origin, age, disability, or military service in its administration of educational policies, programs, or activities; its admissions policies; scholarship and loan programs; athletic or other University-administered programs; or employment. In addition, the University does not discriminate on the basis of sexual orientation consistent with University non-discrimination policy. Inquiries or complaints should be directed to the Opportunity Development Officer, Baker Building, VU Station B #351809, 2301 Vanderbilt Place, Nashville, Tennessee 37235-1809. Telephone (615) 322-4705 (V/TDD); fax (615) 343-4969.

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Medical School Calendar 2005/2006

FALL SEMESTER 2005

Registration and classes begin 4th year and half of 3rd year class / Tuesday 5 July Registration and classes begin other half of 3rd year class / Monday 1 August Registration 2nd year / Monday 8 and Tuesday 9 August Registration 1st year / Monday 8 to Friday 12 August Classes begin 2nd year / Wednesday 10 August Classes begin 1st year / Monday 15 August Labor Day holidays for 1st, 2nd and 4th year classes / Monday 5 September Mid-term exams 2nd year class / Monday 10 to Thursday 13 October Fall break 1st year class / Wednesday 12 to Sunday 16 October Fall break 2nd year class / Thursday 13 to Sunday 16 October Thanksgiving holidays / Thursday 24 to Sunday 27 November Exam period elective courses 1st and 2nd years / Monday 5 to Friday 9 December Exam period required courses 1st and 2nd years / Monday 12 to Thursday 15 December Fall semester ends 1st and 2nd years / Thursday 15 December Fall semester ends 3rd and 4th years / Friday 16 December Holidays 1st and 2nd year classes / Friday 16 December to Monday 2 January

SPRING SEMESTER 2006

Spring semester begins 1st, 2nd, 3rd and 4th year classes / Tuesday 3, January Mid-term exams 1st and 2nd year classes / Monday 20 to Friday 24 February Spring holidays 1st and 2nd years / Saturday 25 February to Sunday 5 March Spring holidays 3rd year (Med., Surg.) / Saturday 11 to Sunday 19 March Spring holidays 4th year TBA Instruction ends 4th year / Friday 21 April Spring holidays 3rd year (Ob/Gyn, Peds, Psych, Neuro)/ Saturday 22 April to Sunday 30 April Exam period elective courses 1st and 2nd years / Monday 24 to Friday 28 April

Exam period elective courses 1st and 2nd years / Monday 24 to Friday 28 Apri Instruction ends required courses 1st year / Friday 28 April Instruction ends required courses 2nd year / Friday 5 May Exam period required courses 1st year / Monday 1 May to Thursday 4 May Exam period required courses 2nd year / Monday 8 to Thursday 11 May Commencement / Friday 12 May Emphasis Program / 15 May to 6 August Instruction ends 3rd year / Friday 23 June

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Medical Center

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JANE F. TUGURIAN, Executive Assistant, Office of the Vice Chancellor

University Committees

Chemical Safety

The Chemical Safety Committee considers policies and procedures pertaining to the safe handling, transport and use of chemicals and recommends adoption of new or revised policies for the Vanderbilt University Medical Center (VUMC) and Vanderbilt University Campus (VUC) administration through Vanderbilt Environmental Health & Safety (VEHS). It monitors and interprets regulations and/or guidelines of the Environmental Protection Agency (USEPA), the Occupational Safety and Health Administration (OSHA), National Institutes of Occupational Safety Health (NIOSH) and others pertaining to hazardous chemicals and provides technical assistance to Vanderbilt Environmental Health and Safety (VEHS) on these matters. The committee reviews proposed or enacted legislation concerning chemical safety impacting the VUMC and VUC community and informs Departments, Schools and Colleges of legislation, including potential implications and business impact. It assists VUMC and VUC Colleges, Schools and Departments with their internal chemical safety committees and/or programs, in conjunction with Vanderbilt Environmental Health & Safety (VEHS).

Chuck Lukehart, Chair. Todd Graham, Karl Schnelle George Sweeney, Adam List, Ned Porter, Tony Hmelo, Billy Hudson, Fred Guengerich. Administrative and Ex Officio: Bob Wheaton, Andrea George, Kevin Warren, Maralie Exton, David Jones, Jim Slater, Robert Hayes, Michelle Armstrong, Menah Pratt, John Manning.

Institutional Review Board for the Protection of Human Subjects

The Institutional Review Board for the Protection of Human Subjects comprises a Chair and the committees of Behavioral Sciences and Health Sciences, which are composed of physicians, behavioral scientists, a staff attorney, and community members. Acting through its two committees, the board reviews research proposals involving human subjects with respect to the rights and welfare of the human subjects, the appropriateness of methods used to obtain informed consent, and the risks and potential benefits of the investigation. Approval of the board or one of its component committees is required prior to initiation of any investigation.

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Health Sciences Committee, #3

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Human Subjects Radiation Committee/Radioactive Drug Research Committee

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Medical Center Promotion and Tenure Review Committee

The Medical Center Promotion and Tenure Review Committee reports to the Vice Chancellor for Health Affairs. Its membership is made up of representatives from the School of Medicine and the School of Nursing, and the Dean for Graduate Studies and Research. The committee is responsible for review of all promotions to tenure in the Medical Center.

Peter I. Buerhaus, Kathryn M. Edwards, Barbara Grimes, Larry E. Lancaster, Lawrence J. Marnett, Lynn M. Matrisian, Martin P. Sandler, P. Anthony Weil, Lester F. Williams, Jr.

University Animal Care Committee

The University Animal Care Committee is responsible for the establishment and periodic review of University policy on the humane care and use of animals in experimentation. While not involved in the direct administration of any animal facility, the committee makes recommendations to the Chancellor on policies maintained by these facilities.

In reviewing and establishing such policies for animal care, the committee considers prevailing federal, state, and local laws and guidelines and their applicability to situations unique to Vanderbilt. The committee also is concerned that its policies lead to standards that will enhance the quality of scientific investigation in the University.

The committee is free to consult with and take recommendations to the Vice Chancellor for Health Affairs, the Provost, and the deans of the various schools of the University as it formulates and reviews animal care policies.

Richard M. Breyer, Chair. Maurice C. Bondurant, William Chapman, Jin Chen, Benjamin J. Danzo, Frederick Haselton, Raymond Mernaugh, Richard E. Parker, Cathleen C. Pettepher, Lilianna Solnica-Krezel. Administrative/Ex officio: LouAnn Burnett, John Childress, Fred DeWeese, Judson Newbern, Joan Richerson, Jeffrey D. Schall.

Vice Chancellor's Committee for the Veterans Administration

The Vice Chancellor's Committee is the fundamental administrative unit for policy development and evaluation of educational and research programs at the affiliated Veterans Administration Medical Center. It is composed of senior faculty members of the School of Medicine and others who are associated with the Veterans Administration Medical Center. Vanderbilt members are appointed by the chief medical director of the Veterans Administration on nomination by the Vice Chancellor for Health Affairs.

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Medical Center

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Medical Center Overview

ANDERBILT University Medical Center (VUMC) has a thr ee-fold mission—the education of health pr ofessionals, research in medical sciences, and patient car e. This mission is carried out in five primary operating units—the School of Medicine, the School of Nursing, The V anderbilt Clinic, V anderbilt University Hospital, and V anderbilt Children's Hospital, wher e patients r eceive exemplary car e from physicians and nurses who are creative teachers and scholars.

Members of the faculty maintain pr oficiency and establish working relationships in the pr ofessional community by participating dir ectly in patient care. Their practice encourages the fr ee flow of ideas among the School of Medicine, the School of Nursing, and the clinical units, facilitating joint research activities. As a result, the Medical Center can undertake significant, innovative programs that set the standar ds for health car e in the region.

Outstanding patient car e and technological innovation have established Vanderbilt's reputation as a leading r eferral center for the Southeast. Physicians from other states and foreign countries refer to Vanderbilt those patients whose health problems demand interdisciplinary skills and expert knowledge. Consequently , students in the Medical Center encounter a wider range of diseases than they would be likely to see in many years of private practice.

The Medical Center furnishes support for University programs in engineering and law—and makes possible the Ann Geddes Stahlman professorship in medical ethics as well as inter disciplinary pr ograms in philosophy, religion, and the social sciences.

Through the education of physicians, nurses, biomedical scientists, and technicians in allied health professions—and an overriding concern for the care of patients—Vanderbilt University Medical Center strives to improve the health of the individual. Thr ough scholarship and r esearch leading to new knowledge about the nature, treatment, and prevention of disease, the Medical Center contributes to the improvement of the health of all.

Facilities

Vanderbilt University Hospital

The hospital is a dramatic, twin-tower str ucture of red brick, specially equipped to provide complex and vital services to its patients, continuing Vanderbilt's century-old tradition of offering the best in patient care.

Routinely, more than 25 per cent of patients seen in the hospitals ar e from states other than T ennessee, with the majority coming fr om Kentucky, Alabama, and Mississippi.

The Monroe Carell Jr. Children's Hospital at Vanderbilt

The new Childr en's Hospital, opened in Febr uary 2004, of fers a full range of services to children, including primary care, health maintenance, and disease prevention. It serves as the pediatric teaching hospital for Vanderbilt Medical School and is a center for clinical r esearch to advance quality care for children. The hospital consists of eight floors and 616,785 square feet, with 206 inpatient beds, 36 intensive care units; 60 neonatal intensive care units, 25 emer gency department rooms, 12 operating rooms, 10 observation rooms, and 3 triage rooms.

The Vanderbilt Psychiatric Hospital

Opened in 1985, this hospital pr ovides care for childr en and adolescents with general psychiatric pr oblems, chemical dependency, and psychosomatic and neur opsychiatric pr oblems. The hospital is a r egional referral center for middle Tennessee and serves as a teaching and research facility for medical students and resident physicians in psychiatry.

The Vanderbilt Clinic

The 535,000 square foot Vanderbilt Clinic houses more than eighty-five medical specialty practice areas, the clinical laboratories, a center for comprehensive cancer treatment, a day surgery center. The clinic was opened in February 1988.

Stallworth Rehabilitation Hospital

Opened in 1993, this up-to-the-minute hospital is the only freestanding facility of its kind in Middle Tennessee. The eighty-bed hospital provides both inpatient and outpatient r ehabilitation services to adults and children who have suffered strokes, head or spinal cord injuries, or have other orthopaedic or neurological diseases r equiring rehabilitation. The hospital contains the Junior Chamber of Commer ce Clinic Bowl Gymnasium, which is specially designed for handicapped sports, including basketball, volleyball, and indoor tennis. The V anderbilt Center for Multiple Sclerosis is also housed in the hospital.

Rudolph A. Light Hall

Completed in 1977, Light Hall pr ovides classr oom and laboratory space for students in the School of Medicine. It houses the department of biochemistry, the department of molecular physics and biophysics, and the Howard Hughes Medical Institute. Named for Dr. Rudolph A. Light, former professor of surgery and member of the Board of Trust, Light Hall is connected by tunnels to Medical Center North and to the hospital and by bridge to the Medical Resear ch Buildings and the V eterans Administration Medical Center.

Ann and Roscoe Robinson Medical Research Building

Laboratories and academic space for pharmacology, biochemistry, and molecular physiology and biophysics ar e housed in the Ann and Roscoe Robinson Medical Research Building. The eight-story building, opened in 1989, is also home to the A. B. Hancock Jr. Memorial Laboratory for Cancer Research and the positron emission tomography (PET) scanner.

The building is linked to Light Hall on all levels and shar es an underground level with The V anderbilt Clinic. The V anderbilt Clinic and the Veterans Administration Medical Center ar e connected to the Medical Research Building by a bridge.

Frances Preston Medical Research Building

This building is named in honor of Frances Williams Preston, President and CEO of Broadcast Music, Incorporated. An addition to the south face of the Frances W illiams Pr eston Building, formerly known as Medical Research Building II, is currently under construction. The purpose of this building is to consolidate the Vanderbilt-Ingram Cancer Center programs into one primary location with a distinct pr esence within the V anderbilt Medical Center campus. The project consists of a new two-story lobby at grade with a patient drop-off area, five office floors, and a conference center floor.

Medical Research Building III

The MRB III building houses sixty-six research laboratories, four teaching laboratories, research support areas, offices, conference rooms, classrooms, and an 8,650-square-foot greenhouse for research and teaching.

The landmark project—a 350,000-square-foot facility designed to promote study between diverse scientific disciplines—is a joint undertaking of the College of Arts and Science and the Medical Center.

Medical Center East-South Tower

Opened in April 2005, this tower is home to the Vanderbilt Orthopaedic Institute, the Bill Wilkerson Center for Otolaryngology and Communication Sciences, and the Vanderbilt Diabetes Clinic.

Medical Center East-North Tower

The original building, constructed in 1993, contains a surgical pavilion and an inpatient thirty-bed obstetrics unit. A four-floor addition was added in 1994. It currently houses adult primary care practice suites and academic and outpatient space for the Department of Ophthalmology and Visual Sciences, the V anderbilt Center for Health Systems Resear ch, and the Vanderbilt Department of Plastic Surgery–Cosmetic Clinic.

Medical Center North

The 21-bed Newman Clinical Resear ch Center, an inpatient orthopaedic unit, a Level I burn center, and a sub-acute care unit are located in Medical Center North. The complex also houses administrative support services for the hospital and Medical Center.

Faculty and administrative of fices and r esearch space for Medical School departments are in Medical Center North. The original portions of the building wer e completed in 1925. Since that time a number of connecting wings and buildings have been added.

Village at Vanderbilt

The Village contains outpatient facilities for psychiatry , dentistry, orthodontics, and aller gy. The Dialysis Center, and the Br east Center are located there.

Oxford House

The Oxford House contains of fice space for a number of Medical Center functions. Major occupants include the Transplant Center, the Department of Emer gency Medicine, Medical Ethics, and the Emeriti Faculty Office.

Mary Ragland Godchaux Hall

Built in 1925, Mary Ragland Godchaux Hall is located between the Jean and Alexander Heard Library and Medical Center North of the Vanderbilt University Hospital. Faculty and administrative of fices and r esearch space for the Nursing School ar e located within this building. Godchaux Hall is currently undergoing a 2-year r enovation to update the building infrastructure. During this r enovation, some faculty and staf f have been relocated to Medical Center North.

The Godchaux Annex contains 3 lar ge lectur e halls, 4 seminar -size classrooms, and a vending machine and commons ar ea totaling 14,200 square feet. All classrooms have either permanently installed pr ojection devices with computers and document cameras, or can be accommodated with similar portable equipment.

Joint Center for Nursing Resear ch (JCNR). Housed on the fifth floor of Godchaux Hall, the JCNR pr ovides research consultation, support, and resources for faculty, students and nursing staff of the School of Nursing, Vanderbilt University Hospital (VUH), the Nashville V eterans Administration Hospital (VAMC) and St. Thomas Hospital (STH). The Associate Dean for Research, the Director of the JCNR, and the Assistant Directors from VUSN, VUH, V AMC and STH, plus an administrative assistant, grants manager and full-time statistician pr ovide assistance. They assist with grant pr oposal development, Institutional Review Boar d application, paper and poster pr eparation, data base management, instr ument development, use of computers in literatur e searches, reference retrieval and manuscript pr eparation. The r esources of the JCNR ar e available to all School of Nursing investigators.

Patricia Champion Frist Hall

In 1998 the new 25,000-squar e-foot Patricia Champion Frist building located adjacent to Godchaux Hall was completed. This building houses a multi-media classr oom with installed networking for seventy-five students, two health assessment/multi purpose classr ooms, a student lounge, a reception area, and fifty faculty of fices. Two of the larger classrooms have installed infrastructure capable of video streaming live lectures that are then converted to CD-ROM format. Godchaux Hall, the Annex, and Frist Hall are joined by a common Atrium, which houses a kitchen area for faculty, staff, and students. Thus, the three buildings of the School of Nursing and the Atrium form a self-contained, cohesive instructional and social complex.

Kim Dayani Human Performance Center

The Dayani Center is devoted to health pr omotion, fitness testing and evaluation, cardiac rehabilitation, employee wellness, and fitness and nutrition research.

The center, named in honor of Dr . Kim Dayani (M.D. '65), of fers membership primarily to V anderbilt faculty and staf f members, but a limited number of memberships are available to the public.

The Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences

The Vanderbilt Bill Wilkerson Center is devoted to compr ehensive patient care, education, and research in the field of communication disorders and diseases, as well as ailments of the ear, nose, and throat, and head and neck. Its programs are highly r egarded nationally; *U.S. News & W orld Report*'s 2004 survey, "America's Best Graduate Schools," listed Vanderbilt's special training in audiology first among 1 18 other programs, and speech pathology tied for sixth out of 225 other institutions. The Department of Otolaryngology placed 15th in last year's rankings of hospitals and medical specialties and celebrates its twentieth anniversary in 2006. A new facility housing the V anderbilt Bill Wilkerson Center opened in 2005.

Medical Arts Building

Immediately adjacent to the hospital, the Medical Arts Building provides members of the clinical faculty with convenient of fice space.

Libraries

The Jean and Alexander Heard Library

This is the collective name for all the libraries at Vanderbilt, which have a combined collection of more than 2.8 million volumes. It comprises the Central, Biomedical, Divinity, Law, Management, Music, Peabody, and Science and Engineering libraries, each of which serves its r espective school and disciplines. Special Collections, the University Archives, and the Television News Archive are also part of the library system. The facilities, resources, and services of these divisions ar e available to all Vanderbilt faculty and staf f members, students, and alumni/ae. Most materials are shelved in open stacks and ar e available to users thr ough Acorn, the library's integrated, automated system. Acorn also pr ovides access to a growing number of full-text journals, as well as indexes and other research resources. Acorn and the library homepage (*www.library.vanderbilt.edu*/) are accessible via the campus network and from workstations in each library.

The Annette and Irwin Eskind Biomedical Library

The Eskind Biomedical Library (EBL) is a modern 78,000-net-squar e-foot facility, dedicated in April 1994. The construction of this awar d-winning library building was made possible by a gift from Vanderbilt Alumnus Irwin Eskind and his wife, Annette. With a staff of forty-eight, the library collects and provides access to materials to support the teaching, r esearch, and service missions of V anderbilt University Medical Center . Library holdings include more than 212,000 print volumes, of which about 81,000 ar e monographs and about 131,000 ar e serials. The library r eceives 1,181 print serial titles and has a small collection of non-print material. Most materials ar shelved in open stacks and are available to users through Acorn, the library's integrated, automated catalog. Acorn is Web-based and accessible via the campus network and from workstations in the library. A unique collection of rare books, photographs, and historical items can be found in the Historical Collections Room. The EBL Medical Center Archives is a repository for manuscripts and institutional r ecords reflecting the history of the Medical Center and the history of medicine.

In addition to print materials, EBL provides access to more than 2,600 full-text electronic journal titles, a number that is growing rapidly. It also makes available many online texts such as *Harrison's Online* and *Nelson Textbook of Pediatrics,* and multimedia pr ograms such as A.D.A.M.[™]. In addition, EBL offers the Books@Ovid collection, including fifty-four titles and LWW Oncology, comprising fourteen electr onic texts. The library subscribes to a wide variety of information sour ces fr om commer cial providers. MDConsultTM, STAT!-Ref.TM, and Current Protocols Online are collections of full-text electr onic resources. CRL Online (Clinical Reference Library[™]) is a compr ehensive clinical dr ug information database. UpToDateTM is a database of clinical topic r eviews based on clinical evi dence. HealthGate Clinical Guidelines, a clinical consulting tool, provides evidence-based compr ehensive practice guidelines along with corr sponding sections written at the consumer level. Ovid[™] T echnologies provides access to several databases, including MEDLINE, CINAHL[™] (nursing and allied health), Ovid[™] Evidence-Based Medicine Reviews, EMBASE Drugs & Pharmacology[™], and HaPI[™]. The library also pr 0vides Web access to the Science Citation Index Expanded[™], Journal Citation Reports[™], and ScienceDir ect[™]. Further, EBL's connection to the

World Wide Web provides global access to a wide range of internet-based information r esources which have been fully integrated into the Digital Library portal to pr ovide rapid and easy access. Access to MEDLINE and other NLM databases is provided through PubMed and the NLM Gateway. Also available is the National Center for Biotechnology Information's wide range of molecular biology and genomics resources, including GenBankTM, LocusLinkTM, OMIMTM and a tool for viewing the human genome. In addition, the network brings into the library a number of Medical Center information systems.

Orientations and training sessions on electronic resources are offered regularly in the state-of-the-art T raining Room. The T raining Room features fourteen training stations, a master station for the trainer, and multimedia projection capabilities. Classnet®, an integrated hardware utility, allows the trainer to assume control of trainees' computers, the multimedia player, and the classron on projector, which facilitates interactive instruction and demonstration.

The EBL provides staf f and patr ons with the computer equipment needed to support their information needs. Most public workstations in the library have the same desktop and functionality as other "shar ed" workstations thr oughout the Medical Center . All eighty-four publicly available computers in the library ar e connected to the Medical Center network, and the library makes as many of its resources as possible available via the network. The library has a multimedia workstation available for CD-ROM titles that cannot be networked. In addition, eleven laptop computers programmed to work with wireless technology can be checked out for use in the library.

The library is committed to service, and its most important resource is the expertise of its staf f. Librarians help students, r esidents, and faculty stay abreast of the latest findings in the literatur e by actively participating on clinical rounds and providing targeted support to researchers. Bioinformatics support is provided through regular training classes and individualized consultations. Members of the Collection Development T eam are available to meet with faculty developing new courses or pograms to assess the information needs of those endeavors and determine the most appr opriate way to fulfill those needs. The library has also established a program to provide VUMC patients and their families with the latest in health information. Through AskELIS synchronous services (Library Information Desk, Search-Doc, and Learning Site), staf f expertise is available on the desktop thr ough the Web. EBL also recently added specialized Digital Libraries for the Children's Hospital, Bioresearch, Nursing, Public Health, and Consumer Health users to customize the electr onic delivery of information to specific user groups. Online knowledge modules provide 24-hour interactive instruction in health science resources and bibliographic management tools. Other services include circulation of books, management of r eserve materials, document delivery to obtain needed material held by other institutions, reference and research services, and guidance in the use of new information technologies. EBL staff members also guide development of VUMC's Web pages and create online tools, such as the Learning Module Shell, to promote the reuse of information. As part of the Informatics Center, library staff work in partnership with researchers in the Division of Biomedical Informatics and the Information Management Department to innovate the delivery of health information to Vanderbilt and to the larger regional community.

The library's W eb site (*www.mc.vanderbilt.edu/biolib/*) has more details, including a succinct description of the library's collection, pr ograms and services and a responsibility chart (in the "Who's Who at Eskind" section).

Professional and Supervisory Staff

DEBORAH BROADWATER, M.L.S., Assistant Director for Collection Development JOHN CLARK, M.S., Health Systems Analyst Programmer MARK DESIERTO, M.S.L.I.S., Library Intern MARCIA EPELBAUM, M.A., Assistant Director for Library Operations GAYLE GRANTHAM, Health Information Specialist NUNZIA GIUSE, M.D., M.L.S., Director REBECCA JEROME, M.L.I.S., Assistant Director for Filtering and Evidence-Based Services TANEYA KOONCE, M.S.L.S., Assistant Director for Web Development QINGHUA KOU, M.S., Health Systems Analyst Programmer PATRICIA LEE, M.L.S., Assistant Director for Fee-Based Services FRANCES LYNCH, M.L.S., Associate Director for Administration JENNIFER LYON, M.L.I.S., M.S., Coordinator, Research Informatics Consult Service SANDRA L. MARTIN, M.L.S., Ed.S., Ed.D., Assistant Director for Children's Hospital Services DAN E. MCCOLLUM, Administrative Assistant Director for Auxiliary Centers SHANNON A. MUELLER, M.L.I.S., Librarian JEREMY NORDMOE, M.A., Coordinator, Medical Center Archives CHRISTOPHER RYLAND, M.S.I.S., Coordinator for Special Collections NILA SATHE, M.A., M.L.I.S., Assistant Director for Research MARY H. TELOH, M.A., Coordinator, Historical Collections PAULINE TODD, M.S., Librarian MARGARET W. WESTLAKE, M.L.S., Assistant Director for Staff Training ANNETTE M. WILLIAMS, M.L.S., Associate Director TAO YOU, M.L.I.S., Librarian JERRY ZHAO, M.S., M.L.I.S., Systems Software Specialist

Affiliated Facilities

Vanderbilt is closely af filiated with the 485-bed V eterans Administration Medical Center—a Vice Chancellor's Committee hospital containing 439 acute-care beds and outpatient facilities.

The Medical Center uses the facilities of Baptist Hospital, Meharry Medical School/Nashville General Hospital, the Luton Community Mental Health Center, the Middle T ennessee Mental Health Institute, the Metr o Nashville–Davidson County Health Department, Southern Hills Hospital, and Centennial Medical Center.

Information Technology Services (ITS)

Information Technology Services, formed by the recent merger of Academic Computing and Information Services (ACIS) and Telecommunications, advances Vanderbilt's information infrastructure and offers services for voice, data, and video technologies. In addition to providing reliable and cost effective telecommunications services, ITS designs, manages, and maintains VUnet, the data network that is Vanderbilt's link to the Internet. Key services of VUnet include the VUmail electronic message system; VUspace, a networked file system available to students, faculty, and staff; and Prometheus, an online vehicle that makes it easy for faculty to put course materials on the W eb. For mor e information, see *www.vanderbilt.edu/its*. For more information about computing at V anderbilt, visit V anderbilt's computing homepage at *www.vanderbilt.edu/compute/*.

Canby Robinson Society

In 1978, Vanderbilt established the Canby Robinson Society in honor of George Canby Robinson, M.D., dean of the Medical School fr om 1920 to 1928. It was through Dr. Robinson's leadership that the teaching hospital and the research laboratories were placed under one roof, thrusting Vanderbilt to the forefront of medical education. His innovation regarding the diversity of the Medical School's curriculum, with emphasis on biomedical research and improved health care, is a legacy that continues today.

With a membership of nineteen hundr ed plus and a working twentyfive-member board, this donor society pr omotes both unr estricted and restricted gifts in support of the Medical Center's programs. Through the leadership of this group, private support to the Medical Center continues to increase. The Canby Robinson Society of fered twenty-one full scholarships this past year.

Founders Circle

DR. AND MRS. BEN J. ALPER Nashville MR. AND MRS. BARRY BAKER Nashville DR. DIXON N. BURNS Tulsa, Oklahoma MR. AND MRS. MONROE J. CARELL, JR. Nashville MRS. CAROLYN PAYNE DAYANI Scottsdale, Arizona DR. AND MRS. WILLIAM R. DELOACHE Greenville. South Carolina DR. AND MRS. IRWIN B. ESKIND Nashville MRS. A. B. HANCOCK, JR. Paris, Kentucky MISS VIRGINIA E. HOWD Cincinnati, Ohio

MRS. E. BRONSON INGRAM Nashville DR. AND MRS. HARRY R. JACOBSON Nashville MRS. GEORGE C. LAMB, JR. Durham, North Carolina DR. AND MRS. JAMES R. LEININGER San Antonio, Texas MRS. JACK C. MASSEY Nashville MRS. CHARLES S. NICHOLS Nashville MRS. JOHN S. ODESS Chelsea, Alabama DR. THEODORE P. PINCUS Nashville MRS. DAVID Y. PROCTOR, JR. Nashville DR. HERBERT J. SCHULMAN Nashville

Founders Circle, continued	MR. AND MRS. STEVE TURNER Nashville
DR. EUGENE A. STEAD, JR.	MR. AND MRS. DAVID K. WILSON
Bulluk, North Carolina	Nashville
MR. AND MRS. CAL TURNER, JR.	MR. AND MRS. THOMAS L. YOUNT
Goodlettsville, Tennessee	Nashville
Stewards Circle MR. AND MRS. HOWELL E. ADAMS Nashville DR. AND MRS. LEO M. BASHINSKY Birmingham, Alabama DR. AND MRS. ROBERT N. BUCHANAN, JR. Nashville MR. AND MRS. LUCIUS E. BURCH III Nashville MR. AND MRS. CORNELIUS A. CRAIG II Nashville DR. AND MRS. E. WILLIAM EWERS Nashville DR. AND MRS. WILLIAM A. HEWLETT Nashville	MR. AND MRS. LEO KING Henderson, Kentucky DR. AND MRS. JAMES TRUE MARTIN Nashville MRS. EDGAR M. MCPEAK Rusk, Texas MR. AND MRS. GLENN H. MERZ Nashville MRS. BARBARA L. ROGERS Nashville DRS. JOHN L. AND JULIA E. SAWYERS Nashville MR. AND MRS. SARGENT SHRIVER Potomac, Maryland MR. AND MRS. DONALD N. TEST, JR. Dallas, Texas
DR. AND MRS. JACK E. KEEFE III	MRS. HILLIARD TRAVIS
Key Biscayne, Florida	Nashville
MS. MARY E. KELLER	MRS. ELTON YATES
Nashville	Pinehurst, North Carolina

The University

When Commodore Cornelius Vanderbilt gave a million dollars to build and endow Vanderbilt University in 1873, he did so with the wish that it "contribute to strengthening the ties which should exist between all sections of our common country."

A little more than a hundred years later, the Vanderbilt Board of Trust adopted the following mission statement: "W e reaffirm our belief in the unique and special contributions that V anderbilt can make toward meeting the nation's r equirements for scholarly teaching, training, investiga tion, and service, and we r eaffirm our conviction that to fulfill its inherited r esponsibilities, V anderbilt must r elentlessly pursue a lasting future and seek highest quality in its educational undertakings."

Today as Vanderbilt pursues its mission, the University more than fulfills the Commodor e's hope. It is one of a few independent universities with both a quality under graduate program and a full range of graduate and professional programs. It has a strong faculty of more than 2,000 fulltime members and a diverse student body of about 10,000. Students from many regions, backgrounds, and disciplines come together for multidisciplinary study and research. To that end, the University is the fortunate recipient of continued support fr om the Vanderbilt family and other private citizens. The 330-acre campus is about one and one-half miles fr om the downtown business district of the city, combining the advantages of an urban location with a peaceful, park-like setting of br oad lawns, shaded paths, and quiet plazas.

Off-campus facilities include the Arthur J. Dyer Observatory, situated on a 1,131-foot hill six miles south.

The schools of the University of fer the following degrees:

College of Arts and Science. Bachelor of Arts, Bachelor of Science.

Graduate School. Master of Arts, Master of Arts in Teaching, Master of Liberal Arts and Science, Master of Science, Doctor of Philosophy.

Blair School of Music. Bachelor of Music.

Divinity School. Master of Divinity, Master of Theological Studies. *School of Engineering.* Bachelor of Engineering, Bachelor of Science, Master of Engineering.

Law School. Doctor of Jurisprudence.

School of Medicine. Doctor of Medicine, Doctor of Audiology, Master of Medical Physics, Master of Public Health, Master of Science in Clinical Investigation.

School of Nursing. Master of Science in Nursing.

Owen Graduate School of Management. Master of Business Administration.

Peabody College. Bachelor of Science, Master of Education, Master of Public Policy, Doctor of Education.

No honorary degrees are conferred.

Accreditation

Vanderbilt University is accr edited by the Commission on Colleges of the Southern Association of Colleges and Schools to awar d Bachelor's, Master's, Specialist's, and Doctor's degrees. Vanderbilt is a member of the Association of American Universities.



Life at Vanderbilt

ANDERBILT provides a full complement of auxiliary services to meet the personal needs of students, to make life on the campus comfortable and enjoyable, and to pr ovide the pr oper setting for academic endeavor.

Graduate Student Council

The Graduate Student Council, consisting of one student r epresentative from each graduate pr ogram, serves to ascertain graduate student opinion and communicate it appropriately. The council and its committees are available to students and members of the administration and faculty for consultation regarding matters concerning the Graduate School and the graduate student body. The council also provides the Graduate Honor Council, which hears any cases involving graduate students and pr otects the compact with the University. The Graduate Student Council co-sponsors seminars r elated to graduate student education and serves as a volunteer or ganization, collecting clothes, food, and toys for various community pr ograms and allowing graduate students to volunteer a little time out of a busy schedule. Finally, the council organizes many graduate student social functions.

Housing Facilities

To support the housing needs of new and continuing graduate and ppfessional students, the Of fice of Housing and Residential Education pr ovides a W eb-based of f-campus r eferral service (*https://apphost1.acis .vanderbilt.edu/off_campus_referral*). The referral service lists information on housing accommodations of f campus. The majority of r ental property is close to the campus. Cost, furnishings, and conditions vary gr eatly. For best choices, students seeking of f-campus housing should visit the of fice or consult the W eb site by early July for suggestions and guidance. The Web site includes advertisements by landlor ds looking specifically for Vanderbilt-affiliated tenants, as well as by Vanderbilt students looking for roommates. Listings are searchable by cost, distance fr om campus, number of bedrooms, and other parameters. Students may also post "wanted" ads seeking r oommate or housemate situations. On-campus University housing for graduate or professional students is not available.

Change of Address

Students who change either their local or permanent mailing addr ess are expected to notify school and University registrars immediately. Candidates for degrees who are not in residence should keep the school and University Registrar informed of curr ent mailing addr esses. To change or update addresses, go to *www.vanderbilt.edu/students.html*, then click on *Address Change* under *Student Services*.

The Commodore Card

The Commodore Card is the Vanderbilt student ID card. It can be used to access debit spending accounts, VU meal plans, and campus buildings such as r esidence halls, libraries, academic buildings, and the Student Recreation Center.

ID cards are issued at the Commodore Card Office, 184 Sarratt Student Center, Monday through Friday from 8:30 a.m. to 4:00 p.m., and Tuesdays until 7:00 p.m.

For more information, see the Web site at *http://thecard.vanderbilt.edu*.

Eating on Campus

Vanderbilt Dining operates several food facilities throughout campus that provide a variety of food and services. The lar gest dining facility is Rand Dining Center behind the Sarratt Student Center , serving br eakfast, lunch, and dinner, Monday thr ough Friday, and br unch and dinner on Satur day and Sunday. Six convenience stor es on campus of fer grab-and-go snacks, beverages, and gr oceries. Three of the stor es have hot food and made-toorder items. All units accept the Commodore Card, cash, or checks. For more information, visit the Web site at *www.vanderbilt.edu/dining*.

Obtaining Information about the University

Notice to curr ent and pr ospective students: In compliance with applicable state and federal law, the following information about Vanderbilt University is available:

Institutional information about V anderbilt University, including accreditation, academic pr ograms, faculty, tuition, and other costs, is available in the catalogs of the Colleges and Schools on the V anderbilt University Web site at *www.vanderbilt.edr/setalogs*. A paper copy of the *Undergraduate Catalog* may be obtained by the Vanderbilt University Bookstore, Rand Hall, 2301 V anderbilt Place, Nashville, TN 37240 or by calling (615) 322-2994. Paper copies of the catalogs for the graduate and professional schools may be available from the individual schools.

Information about financial aid for students at V anderbilt University, including federal and other forms of financial aid for students, is available from the Office of Student Financial Aid on the Vanderbilt University Web site at *www.vanderbilt.edu/FinancialAid/index.html*. The Of fice of Student Financial Aid is located at 2309 W est End Avenue, Nashville, TN 37203-1725, (615) 322-3591 or (800) 288-0204.

Information about graduation rates for students at Vanderbilt University is available on the Vanderbilt University Web site at *http://virg.vanderbilt.edu* /virg/option1/virg1_flash.htm. Select "Factbook," then "Student Profile," then

"Retention Rates." Paper copies of information about graduation rates may be obtained by writing the Of fice of the University Registrar, Vanderbilt University, Peabody #505, 230 Appleton Place, Nashville, TN 37203-5721 or by calling (615) 322-7701.

The annual *Security at Vanderbilt* report on University-wide security and safety, including related policies, procedures, and crime statistics, is available from the V anderbilt University Police Department on the University Web site at *http://police.vanderbilt.edu/secatvu.htm*. A paper copy of the report may be obtained by writing the V anderbilt University Police and Security Office, 2800 V anderbilt Place, Nashville, TN 37212 or by calling (615) 343-9750. For more information, see "Vanderbilt Police Department" below.

A copy of the annual *Equity in Athletics Disclosure Act Report* on the Vanderbilt University athletic pr ogram participation rates and financial support data may be obtained by writing the V anderbilt University Of fice of Athletics Compliance, 2601 Jess Neely Drive, P .O. Box 120158, Nashville, TN 37212 or by calling (615) 322-4727.

Information about your rights with r espect to the privacy of your educational records under the Family Educational Rights and Privacy Act is available from the Office of the University Registrar on the Vanderbilt University Web site at *www.registrar.vanderbilt.edu/academicrec/privacy.htm.* Paper copies of this information about educational r ecords may be obtained by writing the Office of the University Registrar, Vanderbilt University, Peabody #505, 230 Appleton Place, Nashville, TN 37203-5721 or by calling (615) 322-7701. For more information, see "Confidentiality of Student Records" below.

Services to Students

Confidentiality of Student Records (Buckley Amendment)

Vanderbilt University is subject to the pr ovisions of federal law known as the Family Educational Rights and Privacy Act (also r eferred to as the Buckley Amendment or FERPA). This act affords matriculated students certain rights with respect to their educational records. These rights include:

The right to inspect and review their education records within 45 days of the day the University receives a request for access. Students should submit to the University Registrar written requests that identify the record(s) they wish to inspect. The University Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the University Registrar does not maintain the records, the student will be directed to the University official to whom the request should be addressed.

The right to request the amendment of any part of their education records that a student believes is inaccurate or misleading. Students who wish to request an amendment to their educational record should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the student will be notified of the decision and advised of his or her right to a hearing.

The right to consent to disclosures of personally identifiable information contained in the student's education records to third parties, except in situations that FERPA allows disclosure without the student's consent. One such situation is disclosure to school officials with legitimate educational interests. A "school official" is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including University law enforcement personnel and health staff); a person or company with whom the University has contracted; a member of the Board of Trust; or a student serving on an official University committee, such as the Honor Council, Student Conduct Council, or a grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

The Buckley Amendment provides the University the ability to designate certain student information as "dir ectory information." Dir ectory information may be made available to any person without the student's consent unless the student gives notice as pr ovided for below. Vanderbilt has designated the following as directory information: the student's name, addresses, telephone number, e-mail address, student ID photos, date and place of birth, major field of study, school, classification, participation in officially recognized activities and sports, weights and heights of members of athletic teams, dates of attendance, degr ees and awar ds received, the most recent previous educational agency or institution attended by the student, and other similar information. Any new entering or curr ently enrolled student who does not wish disclosur e of directory information should notify the University Registrar in writing. No element of dir ectory information as defined above is released for students who request nondisclosure except in situations allowed by law. The request to withhold directory information will r emain in effect as long as the student continues to be enrolled, or until the student files a written request with the University Registrar to discontinue the withholding. T o continue nondisclosur e of directory information after a student ceases to be enr olled, a written request for continuance must be filed with the University Registrar during the student's last term of attendance.

If a student believes the University has failed to comply with the Buckley Amendment, he or she may file a complaint using the Student Complaint and Grievance Pr ocedure as outlined in the *Student Handbook*. If dissatisfied with the outcome of this pr ocedure, a student may file a written complaint with the Family Policy and Regulations Of fice, U.S. Department of Education, Washington, D.C. 20202.

Questions about the application of the pr ovisions of the Family Educational Rights and Privacy Act should be directed to the University Registrar or to the Office of the General Counsel.

Vanderbilt Directory Listings

Individual listings in the online *People Finder Dir ectory* consist of the student's full name, school, academic classification, local phone number, local address, box number, and permanent addr ess. The printed *Vander-bilt Directory* also contains these items unless the student blocks them by

September 1 using the update option of the *People Finder Dir ectory*. Student listings in the *People Finder Directory* are available to the V anderbilt community via logon ID and e-passwor d. Students have the option of making their *People Finder* listings available to the general public (viewable by anyone with access to the Internet), of adding additional contact information such as cellular phone, pager, and fax numbers, and of blocking individual directory items or their listing in its entirety. Students who have placed a dir ectory hold with the University Registrar will not be listed in the online directory. To avoid being listed in the printed directory, the request for a directory hold must be on file prior to September 1.

Directory information should be kept curr ent. Students may r eport address changes via the W eb by going to *www.vanderbilt.edu/students.html* and clicking on *Address Change* under *Student Services*.

Psychological and Counseling Center

The Psychological and Counseling Center is a broad-based service center available to full-time students, faculty, staff, and their partners and dependents. Services include: 1) family, couples, individual, and group counseling and psychotherapy; 2) psychological and educational assessment; 3) car eer assessment and counseling; 4) programs such as assertiveness training; marital communication; individual r eading and study skills/test-taking tech - niques; body image, stress, and time management; group support programs for acquiring skills such as r elaxation; 5) administration of national testing programs; 6) outreach and consultation; 7) special pr ogramming related to diversity issues; 8) campus speakers and educational pr ograms.

Eligible persons may make appointments by visiting the Psychological and Counseling Center or by calling (615) 322-2571. Services ar e confidential to the extent permitted by law. For more information, see the Web site, *www.vanderbilt.edu/pcc*. The site also contains self-reflection questions and information resources for counseling services.

Career Center

The Vanderbilt Career Center helps students of V anderbilt University develop and implement car eer plans. This is accomplished by of fering a variety of services and educational pr ograms that help students determine career options, learn job search skills, gain career-related experience, and connect with employers.

Services include individual car eer advising, car eer resource center, graduate and pr ofessional school services, car eer-related seminars and workshops, resume consultation, video interview training, internship information service, car eer fairs, campus interviews, cr edentials services offered through Interfolio, part-time and full-time job listings, and esume referrals. For detailed information about the Car eer Center, visit the Web site at *www.vanderbilt.edu/career*, or visit our of fice at 310 25th Avenue South, Suite 220.

Student Health Center

The Vanderbilt Student Health Center (SHC) in the Zerfoss Building is a student-oriented facility that provides routine and acute medical car e similar to services rendered in a private physician's office or HMO.

The following primary care health services are provided to students registered in degr ee-seeking status without char ge and without copayment: visits to staff physicians and nurse practitioners; personal and confidential counseling by mental health pr ofessionals; routine procedures; educational information and speakers for campus gr oups; and specialty clinics held at the SHC.

These SHC primary car e services ar e designed to complement the student's own insurance policy , HMO, MCO, etc., coverage to provide comprehensive care. Students are billed for any services provided outside the SHC or by the Vanderbilt University Medical Center.

The entire medical staff is composed of physicians and nurse practitioners who have chosen student health as a primary interest and responsibility.

The Zerfoss Student Health Center is open fr om 8:00 a.m. to 4:30 p.m., Monday through Friday, and 8:30 a.m. until noon on Satur day, except during scheduled br eaks and summer. Students should call ahead to schedule appointments, (615) 322-2427. A student with an urgent problem will be given an appointment that same day or "worked in" if no appointment is available. When the Health Center is closed, students needing acute medical car e may go to the Emer gency Department of V anderbilt University Hospital. They will be char ged by the VU Medical Center for Emergency Department services.

Students may also call (615) 322-2427 for twenty-four -hour emergency phone consultation, which is available seven days a week (except during summer and scheduled academic br eaks). On-call Student Health pr ofessionals take calls after regular hours. Calls between 11:00 p.m. and 7:00 a.m. are handled by the V anderbilt University Emer gency Department triage staff. Mor e information is available on the W eb (*www.vanderbilt.edu/student_health*).

Student Accident and Sickness Insurance Plan

All degree-seeking students r egistered for 4 or mor e credit hours or actively enrolled in research courses that are designated by Vanderbilt University as full-time enrollment are required to have adequate health insurance coverage. The University offers a sickness and accident insurance plan that is designed to provide hospital, surgical, and major medical benefits. A brochure explaining the limits, exclusions, and benefits of insurance coverage is available to students in the Of fice of Student Accounts or at the Student Health Center.

The annual premium is in addition to tuition and is automatically billed to the student's account. Coverage extends from August 12 until August 12 of the following year, whether a student remains in school or is away from the University. A student who does not want to subscribe to the insurance plan of fered through the University must complete an online waiver form thr ough the Office of Student Accounts (*www.vanderbilt.edu/stuaccts*) or via the insurance company (*www.kosterweb.com*) indicating the other insurance information. This process must be completed by August 1 for new and returning students enrolling in the fall for annual coverage. Newly enr olled students for the spring term must complete the online waiver pr ocess by January 1. The online waiver process indicating comparable coverage **must be completed every year** in order to waive participation in the Student Accident and Sickness Insurance Plan.

Family Coverage. Students who want to obtain coverage for their families (spouse, children, or domestic partner) may secure application forms by contacting the on-campus Student Insurance representative, (615) 343-4688. Additional premiums are charged for family health insurance coverage.

International Student Coverage

International students and their dependents residing in the United States are required to pur chase the University's international student health and accident insurance plan. No exceptions are made unless, in the judgment of the University, adequate coverage is provided from some other source. This insurance is required for part-time as well as full-time students. Information and application forms are provided through the Student Health Center.

Child Care Center

Vanderbilt Child Car e Center operates as a service to University staf f members, faculty members, and students. The pr ogram serves childr en from six weeks to five years of age. The center is accr edited by the National Academy of Early Childhood Programs.

Services for Students with Disabilities

Vanderbilt is committed to the pr ovisions of the Rehabilitation Act of 1973 and Americans with Disabilities Act as it strives to be an inclusive community for students with disabilities. Students seeking accommodations for any type of disability are encouraged to contact the Opportunity Development Center. Services include, but ar e not limited to, extended time for testing, assistance with locating sign language interpreters, audio-taped textbooks, physical adaptations, notetakers, and reading services. Accommodations are tailored to meet the needs of each student with a documented disability. The Opportunity Development Center also serves as a r esource regarding complaints of unlawful discrimination as defined by state and federal laws.

Specific concerns pertaining to services for people with disabilities or any disability issue should be dir ected to the Assistant Director for Disability Pr ograms, Opportunity Development Center , VU Station B #351809, 2301 Vanderbilt Place, Nashville, T ennessee 37235-1809; phone (615) 322-4705 (V/TDD); fax (615) 343-0671; www.vanderbilt.edu/odc/.

Vanderbilt Police Department

The Vanderbilt University Police Department, (615) 322-2745, is a professional law enforcement agency dedicated to the protection and security of Vanderbilt University and its diverse community.

The Police Department comes under the char ge of the Of fice of the Vice Chancellor for Administration. As one of T ennessee's larger law enforcement agencies, the Police Department provides comprehensive law enforcement and security services to all components of V anderbilt University including the academic campus, Vanderbilt University Medical Center, and a variety of University-owned facilities thr oughout the Davidson County area. Non-commissioned and commissioned of ficers staff the department. Commissioned of ficers are empowered to make arr ests as "Special Police Officers," through the authority of the Chief of Police of the Metr opolitan Government of Nashville and Davidson County . Vanderbilt officers with Special Police Commissions have the same authority as that of a municipal law enforcement officer while on property owned by Vanderbilt, on adjacent public streets and sidewalks, and in nearby neighborhoods.

The Police Department includes a staf f of more than 100 people, or ganized into two divisions: operations and administration. All of V anderbilt's commissioned of ficers have completed of ficer training at a state certified police academy. Those officers hold Special Police Commissions and are required to attend annual in-service, as well as on-the-job training. The department also employs non-academy-trained officers for security-related functions and as part-time student security of ficers.

The Police Department has several services and pr ograms in place to help protect and educate the Vanderbilt community.

Vandy Vans—The Police Department administers the V andy Vans escort system at V anderbilt University. The main component of the sys tem is a van service that pr ovides vehicular escorts to designated loca tions on campus. The van service consists of two vans that operate fr om dusk to 2:00 a.m. (5:00 a.m. on Satur day and Sunday mornings).

One van makes a continuous loop ar ound campus, taking appr oximately thirty minutes, making the following ten stops: Police Headquarters, Lupton dormitory at Branscomb Quad, 24th Avenue between Carmichael Towers East and West, Kissam Quad at Hemingway, Wesley Place Garage, Hill Student Center, North Hall, the Blair School of Music, Highland Quad at Morgan Circle, and McGugin Center.

A second van runs an express route stopping at the following locations: Lupton dormitory at Branscomb Quad, Kissam Quad at Hemingway, North Hall, and Highland Quad at Morgan Circle.

Stops were chosen based on location, the accessibility of a secur e waiting area, and student input. Signs, fr eestanding or located on existing structures, identify each stop. A walking escort can be r equested to walk students from their stop to their final destination. A van is also accessible to students with mobility impairments. As a supplement to the V andy Vans escort system, walking escorts ar e available for students walking to and from any location on campus during the nighttime hours. W alking escorts ar e provided by VUPD of ficers. The telephone number to call for a walking escort is (615) 421-8888 (off campus) or 1-8888 (on campus).

Emergency Phones—More than 100 emergency telephones are located throughout the University campus and Medical Center parking ar eas. Using one of these phones will connect the caller dir ectly to the Police Communications Center. An open line on any emergency phone will activate an emergency response from an officer.

Lost and Found—Recovered property may be turned in at any time to the Police Department. Inquiries about lost items may be made by contacting VUPD's Lost and Found Office, Monday through Friday, 8:30 a.m. to 4:00 p.m. The telephone number is (615) 343-5371.

The Office of Crime Prevention for the Police Department offers several programs and services to the Vanderbilt community. It includes a variety of topics including sexual assault, domestic violence, workplace violence, personal safety, RAD (Rape Aggression Defense) classes, and victim assistance. For further information on available pr ograms and services, call (615) 322-2558 or e-mail *crimeprevention.atwood@vanderbilt.edu*.

Additional information on security measur es, programs and services, and crime statistics for the V anderbilt community is available fr om the Police Department, 2800 Vanderbilt Place, Nashville, TN 37212. Information is also available at *http://police.vanderbilt.edu*.

Campus Security Report

In compliance with the Jeanne Clery Disclosur e of Campus Security Policy and Campus Crime Statistics Act and the T ennessee College and University Security Information Act, Vanderbilt University will pr ovide you, upon request, an annual Security Report on University-wide security and safety, including related policies, procedures, and crime statistics. A copy of this report may be obtained by writing or calling the V anderbilt University Police Department, 2800 Vanderbilt Place, Nashville, Tennessee 37212 or by telephone at (615) 343-9750. You may also obtain this report on the Web site at *http://police.vanderbilt.edu/secatvu.htm*.

Parking and Vehicle Registration

Parking space on campus is limited. Motor vehicles operated on campus **at any time** by students, faculty, or staff must be registered with the Office of Traffic and Parking located in the Wesley Place Garage. A fee is charged. Parking regulations are published annually and are strictly enforced. More information is available at *www.vanderbilt.edu/traffic_parking/*.

Bicycles must be registered with the VU Police Department.

Bishop Joseph Johnson Black Cultural Center

The Bishop Joseph Johnson Black Cultural Center (BJJBCC) provides educational and cultural pr ogramming on the African and African American experience for the V anderbilt and Nashville communities. Dedicated in 1984, the center is named for the first African American student admitted to Vanderbilt (in 1953), Bishop Joseph Johnson (B.D., '54; Ph.D., '58). The center represents one of V anderbilt's numerous efforts at acknowledging and promoting diversity.

One of the center 's aims is to foster an understanding of the values and cultural heritage of people of African descent worldwide. In this regard, the center serves as a resource for information on African and African American life and cultur e. Symposia, lectur es, musical performances, art exhibitions, audiovisual materials, and publications on the African and African American experience provide a broad spectrum of activities for the University and the general public. The center also provides an office space for the *Afro-Hispanic Review*, which is edited by Vanderbilt faculty and graduate students.

Another of the center 's aims is student support. The center does this by providing a meeting space for numerous Vanderbilt student groups. Additionally, center staf f members advise campus student or ganizations on a range of projects. The center promotes student recruitment by hosting various pre-college groups and ef forts. One additional goal of the center is community outreach and service. To this end, the center sponsors a Community Speakers Series designed to bring community leaders to campus for talks and for ums. The center r eaches out to civic and cultural groups and works cooperatively with them. The BJJBCC also provides space for tutoring sessions and mentoring activities for young people fr om Metr o Nashville Public Schools and other institutions, such as the YMCA.

Recently expanded, and r enovated, the center houses a computer lab, a small library, a seminar r oom, an auditorium, a student lounge ar ea, and staff offices. The center is open to all V anderbilt students, faculty, and staff for programs and gatherings thr oughout the year. More information is available on the BJJBCC Web site at *www.vanderbilt.edu/BCC*.

International Student and Scholar Services

International Student and Scholar Services fosters the education and development of non-immigrant students and scholars to enable them to achieve their academic and professional goals and objectives. ISSS provides advice, counseling, and advocacy r egarding immigration, cr oss-cultural, and personal matters. ISSS supports an environment conducive to international education and inter cultural awareness via educational, social, and cross-cultural programs.

ISSS provides immigration advising and services, including the processing of immigration paperwork, to mor e than 1,500 international students and scholars. The of fice works with admission units, schools, and departments to generate documentation needed to bring non-immigrant students and scholars to the U.S. Further, ISSS keeps abreast of the regulations pertaining to international students and scholars in accor dance with the Department of Homeland Security (Bureau of Citizenship and Immigration Services) and the Department of State. ISSS coor dinates biannual orientation programs for students and ongoing orientations for scholars, who arrive throughout the year.

In order to connect international students with the greater Nashville community, ISSS coor dinates First Friends, which matches international students with Americans both on and of f campus. The weekly W orld on Wednesdays presentations inform, br oaden perspectives, and facilitate cross-cultural understanding thr ough discussions led by students, faculty , and staff. International Education Week in the fall and International Awareness Festival in the spring provide the campus with additional opportunities to learn about world cultures and to celebrate diversity. A range of programs and activities is provided throughout the year to addr ess a variety of international student needs and inter ests. These pr ograms include V anderbilt Partners for International Education (a community service program), a Winter Party, an International Stress Fest, and a Graduation Send-Off. Additionally, ISSS staff have been instrumental in developing and implementing the Tennessee Conference for International Leadership which brings together international students from across the state for workshops and activities.

Margaret Cuninggim Women's Center

The Women's Center was established in 1978 to pr ovide support for women at Vanderbilt as well as resources about women, gender, and feminism for the University community. In 1987, the center was named in memory of Mar garet Cuninggim, dean of women and later dean of student services at Vanderbilt.

Programs for students, faculty, and staff are scheduled throughout the fall and spring semesters and ar e publicized on the W eb at *www. vanderbilt.edu/WomensCenter* and in the monthly newsletter *Women's VU*, which is distributed without char ge to campus addr esses on r equest. A student group that works closely with the W omen's Center, Vanderbilt Feminists, is open to all interested students, both male and female.

The center houses a small library with an excellent collection of books, journals, and tapes. Books and tapes cir culate for four weeks. Copy facilities are available. The Women's Center is also home to Pr oject Safe (PS), a coordinated program of education about, pr evention of, and r esponse to violence against women on campus.

Office for GLBT Life

The Vanderbilt Office for Gay, Lesbian, Bisexual, and T ransgendered Life serves the entir e Vanderbilt community through education, research, programming, counseling, and social events. Visitors are invited to use the office's resource library for r esearch around GLBT issues. The Office for GLBT Life continually seeks to expand its r esources and strives to ensure that Vanderbilt University has the most current information concerning GLBT life, gender and sexual diversity, inclusiveness, and social justice. For mor e information, visit *www.vanderbilt.edu/glbt*, e-mail *glbtoffice*@ *vanderbilt.edu*, or phone (615) 322-3330.

Schulman Center for Jewish Life

The 10,000-square-foot Ben Schulman Center for Jewish Life was for mally dedicated in the fall of 2002. The Ben Schulman Center is the home of Vanderbilt Hillel. The goal of the center is to provide a welcoming community for Jewish students at Vanderbilt to further religious learning, cultural awareness, and social engagement. The center of fers worship, fellowship, lectures, and social action projects for Vanderbilt's growing Jewish community as well as for any student who wants to learn more about Judaism. The Schulman Center is also home to Grin's Cafe, Nashville's only kosher and vegetarian restaurant. For further information about the Schulman Center , please call 322-8376 or e-mail *hillel@vanderbilt.edu*.

Religious Life

The Office of the University Chaplain and Affiliated Ministries exists to provide occasions for r eligious reflection and avenues for service, worship, and action. Ther e are many opportunities to clarify one's values, examine personal faith, and develop a sense of social r esponsibility.

The Holocaust and Martin Luther King Jr. lecture series, as well as Project Dialogue, provide lectures and programs investigating moral issues, political problems, and religious questions.

Baptist, Episcopal, Jewish, Pr esbyterian, Reformed University Fellowship, Roman Catholic, and United Methodist chaplains work with individuals and student gr oups. Provisions for worship ar e also made for other student religious groups. Counseling and crisis referrals are also available.

Extracurricular Activities

Sarratt Student Center

The Sarratt Student Center (*www.vanderbilt.edu/sarratt*), named for former mathematics professor and dean of students Madison Sarratt, pr ovides a variety of facilities, programs, and activities. The center houses a cinema; an art gallery; art studios and darkr ooms for classes and individual pr ojects; work and of fice spaces for student or ganizations; comfortable reading and study lounges fully wir ed for Internet access; lar ge and small meeting rooms; and lar ge, open commons and courtyar d areas for r eceptions or informal gathering. The center also houses the Pub (Over cup Oak) r estaurant and the Stonehenge Cafe, and leads directly to Rand Dining Room, the Varsity Market, and the Bookstor e. The V anderbilt Program Board plans concerts, film scr eenings, classes, speakers, r eceptions, gallery showings, and many other events throughout the campus. The center's Welcome Desk serves as a campus information center and is a T icketmasterTM outlet, handling ticket sales for most of the University's and Nashville's cultural events. Sarratt Student Center is home to the Division of Student Life, the Of fice of Greek Life, the Commodor e Card Office, and Vanderbilt Student Communications (including the student newspaper, radio station, and yearbook).

Student Life Center

Opened in April 2005, the Vanderbilt Student Life Center is the University's new community keystone. It is both the fulfillment of students' vision to have a lar ge social space on campus and a wonderful comple ment to the Sarratt Student Center.

With its multiple-function rooms, meeting spaces, student lounge ar ea, and the 9,000-squar e-foot Commodore Ballroom, the center will become the social hub at V anderbilt, which is committed to of fering students and the campus community the best educational experience in the country.

The center also will be home to the Career Center, International Student and Scholar Services, Health Professions Advisory Office, Office of Honor Scholarships and ENGAGE, Office of International Services, and Office of Study Abroad Programs.

Recreation and Sports

Graduate and pr ofessional students ar e encouraged to participate in the many physical activity classes, intramurals, and sport clubs offered by the University. All students pay a mandatory r ecreation fee which supports facilities, fields, and pr ograms (see the chapter on Financial Information). Spouses must also pay a fee to use the facilities.

Physical activity classes of fered include racquetball, fly fishing, and scuba, along with r ock climbing and kayaking. Thirty-eight sport clubs provide opportunity for participation in such favorites as sailing, fencing, rugby, and various martial arts.

The University r ecreation facilities include gymnasiums, tracks, and four softball diamonds. The four lighted multipurpose playing fields ar e irrigated and maintained to assure prime field conditions.

The Student Recr eation Center houses a 36 meter x 25 yar d swimming pool; three courts for basketball, volleyball, and badminton; six racquetball and two squash courts; a weight and fitness r oom; a wood-floor activity room; a rock-climbing wall; an indoor track; a mat room; locker rooms; and a Wellness Center. Lighted outside basketball and sand volleyball courts and an outdoor recreation facility complement the center.



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School of Medicine

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STEVEN G. GABBE, M.D., Dean

- G. ROGER CHALKLEY, D.Phil., Senior Associate Dean for Biomedical Research Education and Training
- GERALD S. GOTTERER, M.D., Ph.D., Senior Associate Dean for Faculty and Academic Administrative Affairs
- F. ANDREW GAFFNEY, M.D., Associate Dean for Clinical Affairs
- THOMAS A. HAZINSKI, M.D., Associate Dean for Faculty Affairs
- GERALD B. HICKSON, M.D., Associate Dean for Clinical Affairs and Director of the Vanderbilt Center for Patient and Professional Advocacy

GEORGE C. HILL, Ph.D., Associate Dean for Diversity in Medical Education BONNIE M. MILLER, M.D., Associate Dean for Undergraduate Medical Education JASON D. MORROW, M.D., Associate Dean for Physician-Scientist Development FREDERICK KIRCHNER, JR., M.D., Associate Dean for Graduate Medical Education ALASTAIR J. J. WOOD, M.D., Associate Dean for External Affairs J. HAROLD HELDERMAN, M.D., Assistant Dean of Medical School Admissions SCOTT M. RODGERS, M.D., Assistant Dean for Medical Student Affairs LYNN E. WEBB, Ph.D., Chief of Staff VICKY CAGLE, Director, Student Financial Services CRAIG R. CARMICHAEL, M.S., C.P.A., Director of Finance, Academic, and Research Enterprise TERENCE S. DERMODY, M.D., Director, Medical Scientist Training Program SUSAN WENTE, Ph.D., Associate Director, Medical Scientist Training Program MICHELLE GRUNDY, Ph.D., Assistant Director, Medical Scientist Training Program JOSEPH M. GOFF, Director, Multimedia Support DONALD E. MOORE, JR., Ph.D., Director, Division of Continuing Medical Education PATRICIA F. SAGEN, Ph.D., Director, Medical School Admissions

JANELLE CAREY OWENS, Executive Assistant, Medical School Programs and Special Projects

BENITA J. BOBBITT, Assistant to the Dean

Executive Faculty

Steven G. Gabbe, Chair. Jeffrey R. Balser, R. Daniel Beauchamp, Fred H. Bess, Alan D. Cherrington, Nancy C. Chescheir, Raymond N. DuBois, Daryl K. Granner, Dennis Hallahan, Heidi Elizabeth Hamm, Frank E. Harrell, Jacek Hawiger, Stephan H. W. Heckers, Harry R. Jacobson, Robert L. MacDonald, Daniel R. Masys, Lynn M. Matrisian, Eric G. Neilson, Robert H. Ossoff, Martin P. Sandler, Samuel A. Santoro, William Schaffner, Corey M. Slovis, Joseph A. Smith, Dan M. Spengler, William W. Stead, Paul J. Sternberg, Arnold W. Strauss, Michael R. Waterman, Susan Rae Wente. *Regular Non-Voting Members:* Craig R. Carmichel, G. Roger Chalkley, Colleen Conway-Welch, F. Drew Gaffney, Gerald S. Gotterer, Gerald B. Hickson, George C. Hill, Frederick Kirchner, Jr., Jason D. Morrow, Linda D. Norman, Mark A. Magnuson, Bonnie M. Miller, Donald E. Moore, Jr., Scott M. Rodgers, John H. Shatzer, William W. Stead, Lynn E. Webb, Alastair J. J. Wood.

Standing Committees

(The Dean is an *ex officio* member of all standing and special committees.)

Admissions

The Admissions Committee has the responsibility of reviewing Medical School applications for admission and making recommendations to the Dean for the admission of those students who are considered best qualified.

J. Harold Helderman, Chair. James Atkinson, Robert Baum, Lonnie S. Burnett, Ingrid Chang, P. David Charles, Brian W. Christman, Wonder Puryear Drake, John H. Exton, Kathleen M. Figaro, Pam Fishel-Ingram, Agnes B. Fogo, Cornelia R. Graves, Kathy Jabs, Ernest Madu, Lillian B. Nanney, R. Michael Rodriguez, Trent Rosenbloom, Sally Santen, Jayant P. Shenai, Debra Webster-Clair, John A. Zic. *Ex officio:* George A. Hill, Bonnie Miller, Patricia Sagen.

Clinical Research Center

The Clinical Research Center Advisory Committee meets regularly to act upon new and current faculty research proposals for the use of the center, to formulate policy and review all aspects of the administration of the center, and to approve reports and applications by the center to the National Institutes of Health.

Nancy J. Olsen, Chair. Alfred L. George, Jonathan L. Haines, James E. Loyd, John J. Murray, John A. Oates, Judy G. Ozbolt, Richard N. Pierson, Ernest A. Turner, Douglas E. Vaughan, James A. Whitlock. *Ex officio:* David Robertson, Jeffrey R. Balser.

Faculty Advisory Council

The Faculty Advisory Council is made up of departmentally elected faculty from all of the departments of the School of Medicine and serves as an advisory committee to the Dean and Executive Faculty. The council is to be invited by the administration to participate in the formulation of major policies of the school and may present other recommendations to the Dean at its discretion.

Howard S. Kirshner, Chair. John T. Algren, Christopher R. Aiken, Patrick G. Arbogast, Gordon R. Bernard, Frank H. Boehm, Arthur F. Dalley, Jeffrey M. Davidson, Ariel Y. Deutch, James A. Duncavage, Josiane Eid, Ronald B. Emeson, Michael L. Freeman, Joseph Gigante, Lee Ann C. Golper, Marie R. Griffin, Tina V. Hartert, Robin R. Hemphill, Alice A. Hinton, Kevin B. Johnson, Howard S. Kirshner, John E. Kuhn, Jason D. Morrow, Matthew Ninan, Neil Osheroff, John S. Penn, Rebecca Swan, P. Anthony Weil, J. Kelly Wright, Jr.

Faculty Appointments and Promotions

The committee, appointed by the Dean, is responsible for consideration of faculty promotions in the School of Medicine and for examination of credentials of candidates for appointment to faculty positions.

Raymond N. Dubois, Jr., Chair. J. Ann Richmond, Co-chair. Naji N. Abumrad, John T. Algren, William D. Dupont, Kathleen L. Gould, Jean F. Simpson, Roland W. Stein, Paul Sternberg, Jr., Grant R. Wilkinson. *Ex officio:* Thomas A. Hazinski.

Graduate Education

The Graduate Education Committee is the faculty body concerned with graduate student affairs and graduate programs in the Medical Center.

David M. Miller, Chair. Fred H. Bess, Richard Caprioli, Jin Chen, Louis J. DeFelice, Ronald B. Emeson, Walter Gray Jerome III, Sebastian Joyce, Richard M. O'Brien. *Ex officio:* G. Roger Chalkley.

Interdisciplinary Graduate Program

The Interdisciplinary Graduate Program Executive Committee is concerned with graduate student affairs and graduate programs in the Medical Center. It is responsible for admitting students to the Interdisciplinary Graduate Program in the Biomedical Sciences; for recommending candidates for fellowships and other funds available for the program; for reviewing activities and progress of the students in the program and recommending students to the Departments of Biochemistry, Cell Biology, Microbiology and Immunology, Molecular Physiology and Biophysics, Pathology, and Pharmacology for the completion of the Ph.D. degree.

James G. Patton, Chair. Richard Caprioli, Jin Chen, Louis J. DeFelice, Ronald B. Emeson, Sebastian Joyce, David M. Miller, Richard M. O'Brien. *Ex officio:* G. Roger Chalkley.

International Medical Educational Experiences

The International Medical Educational Experiences Committee acts as a channel for exchange of students and faculty in areas of international education.

Faculty Advisers: Peter F. Wright, Chair. Mark R. Denison, Robert S. Dittus, Carney Ferris, Christopher S. Greeley, Jeffry P. McKinzie, Mario R. Rojas, William Schaffner, John T. Tarpley. Second Year Students: Louise Vaz, Jeff Bonnrager, Mona Sharifi, Amelia Hessheimer, Usha Rao, Milica Markovic, Shobhana Gupta, Philip Budge, Nitin Gupta, Christina Shuman, Ashley Rowan, Ikwo Oboho, Kimberly Ma. Ex officio: Bonnie M. Miller. Coordinator: Janelle C. Owens.

Medical Center Conflict of Interest

The Conflict of Interest Committee is appointed by and advisory to the Dean of the School of Medicine. It is charged to review individual faculty circumstances where a possible conflict of interest or commitment might exist. The committee makes recommendations to the department chairs and the Dean concerning their review.

Gerald S. Gotterer, Co-Chair, Thomas A. Hazinski, Co-Chair. Italo Biaggioni, Lonnie S.
 Burnett, Richard Caprioli, C. Richard Chappell, Stuart G. Finder, Fred Goad, Thomas P.
 Graham, Jr., Rolanda Johnson, Peng Liang, John J. Murray, Donald H. Rubin, Alastair
 J. J. Wood. *Ex officio:* Diana Marver, Leona Marx, Christopher D. McKinney.

M.D./Ph.D. Committee

The M.D./Ph.D. Committee has responsibility for admitting students to the M.D./Ph.D. program; for recommending candidates for fellowships and other funds available for the

program; and for maintaining, on a continuing basis, a review of the activities and progress of the students in the program.

Terry S. Dermody, Director. Susan R. Wente, Associate Director. Michelle M. Grundy, Assistant Director. H. Scott Baldwin, R. Daniel Beauchamp, Mark R. Boothby, Bruce Carter, Walter Chazin, Robert J. Coffey, Jr., Kathy Gould, Dennis E. Hallahan, Heidi Hamm, Frederick R. Haselton, Robert Macdonald, Eric G. Neilson, Dan M. Roden, Arnold W. Strauss, Mary Zutter.

Student members: William Oldham, Carmen Perez.

Ex officio: Roger Chalkley, Steven G. Gabbe, Gerald S. Gotterer, J. Harold Helderman, George C. Hill, Fatima Lima, Bonnie M. Miller.

Student Promotion Committees

Each promotion committee will have the responsibility for making recommendations to the Dean and the Executive Faculty concerning promotion, remedial action, or dismissal as appropriate for each student in the class for which it is responsible.

Class of 2005

Lillian Nanney, Chair. Ronald B. Emeson, Arnold W. Strauss, Julia G. Lewis. *Ex officio:* Gerald S. Gotterer, Bonnie M. Miller.

Class of 2006

Linda Sealy, Chair. Jeffrey R. Balser, Cornelia R. Graves, H. Wayne Lambert, Alvin C. Powers. *Ex officio:* Gerald S. Gotterer, Bonnie M. Miller.

Class of 2007

Cathleen C. Pettepher, Chair. Alan D. Cherrington, Sandra A. Moutsios, R. Stokes Peebles, Jayant P. Shenai. *Ex officio:* Gerald S. Gotterer, Bonnie M. Miller.

Class of 2008

Richard S. Miller, Chair. John T. Algren, Wonder P. Drake, Joyce E. Johnson, Paul Sternberg. *Ex officio:* Gerald S. Gotterer, Bonnie M. Miller.

Undergraduate Medical Education (formerly Academic Programs)

The Undergraduate Medical Education Committee, appointed by the Dean, is composed of faculty and students. It is charged with monitoring the content and implementation of the School of Medicine curriculum and recommending to the Dean and the Executive Faculty any actions or modifications in policies relating to its area of responsibility.

George C. Bolian, Chair. Terrence S. Dermody, Arthur F. Dalley, Agnes B. Fogo, Kimberly Lomis, Jeanette J. Norden, James W. Pichert, James S. Powers, R. Michael Rodriguez, Anderson Spickard III, Alexander S. Townes, Luc Van Kaer, John A. Zic. *Ex officio:* Gerald S. Gotterer, Bonnie M. Miller, Donald E. Moore.





Medical Education at Vanderbilt

THE Vanderbilt University School of Medicine is committed to the education of physicians who ar e firmly grounded in basic medical science; who can recognize and treat disorders in their patients and provide appropriate preventive counseling; who can obtain, evaluate, and apply the results of scientific research; and who can translate their pr oficiency into effective humanitarian service.

The medical school's major str ength lies in the quality of its students and faculty. The school pr ovides a supportive, positive envir onment in which students are treated individually in their pursuit of excellence in medical careers. The student body is diverse, with students fr om a wide variety of major universities nationwide. The medical school has an unusually low attrition rate and its graduates traditionally gain entrance to residency programs of high quality throughout the country.

The faculty, which represents a variety of specialties and many str ong research programs, has a national and international r eputation for excellence in the biomedical sciences and clinical care. House staff officers who have teaching duties consistently r eceive commendation for their contribution to the educational program.

The medical school curriculum contains within its cor e and elective components the full spectrum of medicine. The curriculum provides sufficient structure to afford guidance, with flexibility to encourage initiative. An extensive elective pr ogram during the first two years gives students the opportunity to pursue individual inter ests. The curriculum provides traditional experiences in the various disciplines of medicine and of fers students research opportunities for academic credit. To enrich and expand the student's understanding of patients and the context in which they experience illness and seek care, there are courses in such subjects as human development, human behavior, medical philosophy, medical ethics, medical history, death and dying, and human sexuality.

From the more than 3,700 applications received each year at the School of Medicine, appr oximately a hundr ed students ar e chosen for the first-year class. A hallmark of the School of Medicine admissions process is the personal attention to details by the administrative staf f and the Admissions Committee. The involvement of more than a hundred faculty members in the interview and evaluation process reflects the importance placed on the selection process and leads to a personal interest in each applicant. An important part of the admissions process is the applicant's tour of the medical school facilities with a member of the student body as a guide.

The school seeks to attract qualified minority and disadvantaged students. This goal is based not only on a commitment to equal opportunity, but also on the belief that a diverse student population pr ovides the best learning environment for all students.

Medical school is but the beginning of a continuing process. Following graduation from medical school, r esidency provides a period of further formal training in specialized ar eas of medicine. For the physician who aspires to a career in academic medicine, additional postdoctoral training in research is needed. The Vanderbilt program in medical education provides a sound basis for the physician graduate to enter any field of medicine. Vanderbilt's commitment to medical education as a lifelong pursuit is supported by programs of continuing education offered to alumni and to physicians practicing locally as well as those practicing in other parts of the country.

Mission of the School

The mission of the Vanderbilt University School of Medicine is:

- To develop outstanding clinicians, scientists, and teachers in an environment that stimulates learning and discovery and cultivates empathy and compassion.
- To advance the knowledge base of medicine by continuing our role as a leading research institution.
- To disseminate knowledge through continuing education of our students, graduates, faculty members, and colleagues.
- To promote exemplary patient care and to serve our local and extended community.
- 5. To maintain our atmosphere of cooperation, collegiality, and mutual respect.
- 6. To recognize individuality and to foster personal growth of all who work and learn with us.

Education

The school's mission includes the education of physicians at all levels of their professional experience: medical school; postgraduate education, including basic science and clinical training; and continuing education for the practicing physician. The faculty seeks to pr ovide students with the attitudes and backgr ound, based on sound biomedical science, to con tinue their education lifelong. At Vanderbilt, every medical student has access to examples of the highest standar ds of biomedical investigation and clinical practice. The desir ed end is a graduate who has been challenged and stimulated in as many areas of medicine as are feasible within the limits of a four-year course of study.

Patient Care

A teaching hospital and its associated outpatient facilities constitute a classroom for trainees based on high academic standar ds. The clinical facility also serves as a laboratory for clinical r esearch. Faculty members, serving as role models for young physicians, teach the practice of exemplary patient care at all levels. Model programs of health care delivery, at primary, secondary, and tertiary levels, fulfill the school's r esponsibility for community service in its fullest context.

Research

In addition to teaching, members of the medical school faculty have a second and complementary r esponsibility to generate new knowledge through research. Exposure to an inquiring faculty sparks the spirit of inquiry in students. At Vanderbilt, research encompasses basic scientific questions, issues in clinical car e, and problems related to the health car e system itself. V anderbilt is r ecognized as one of the leaders in r esearch among medical schools in the United States.

Honor System

The Honor System at Vanderbilt University School of Medicine is conducted by students for the benefit of students, faculty, staff, and patients. The Honor System, as delineated by the Honor Code, equires all students to conduct themselves with honor in all aspects of their lives as physicians-in-training. By demanding gr eat responsibility, the Honor System fosters an environment of freedom and trust that benefits the entire Medical School. In signing this statement upon enr ollment, each student agrees to participate in the Honor System and abide by its code.

Simply stated, as representatives of the Vanderbilt University School of Medicine and the medical pr ofession, students pledge to conduct them selves with honor and integrity at all times. Both the Pomotions Committees and Honor Council serve to pr otect the environment of trust created by this Honor System. The Promotions Committees periodically evaluate each student's performance with special attention to work and conduct appropriate for the practice of medicine. The Honor Council serves to educate the student body about their responsibilities outlined in the written code; to conduct investigations and hearings r egarding reported violations of the code; and to decide the nature of penalties deemed appropriate for such violations. Decisions r eached by the Honor Council do not preclude the discussion of r eported violations by the Pr omotions Committee, as the Committee may examine these incidents in the lar ger context of a student's general performance.

The Honor Code

All students pledge to conduct themselves honorably , professionally, and respectfully in all r ealms of the medical center and in all aspects of medical education and patient care. Under the Honor System, the student pledges that he or she neither gives nor r eceives unauthorized aid nor leaves unreported any knowledge of such aid given or r eceived by any other student. This pledge applies to all tests, themes, term papers, examinations or any other activities r equired for the awarding of the M.D. degree. This pledge encompasses all clinical work involving patient care and representations of patient care information. All students are under the jurisdiction of the Honor System and ar e expected to abide by the Honor Code during their studies at V anderbilt University School of Medicine (VUSM). Any student taking a course in the School of Medicine, r egardless of where registered, is under the jurisdiction of the Honor Council of VUSM and subject to the penalties it may impose.

Constitution of the Honor Council

Article I – Name

The name of the council shall be the Honor Council of Vanderbilt University School of Medicine.

Article II – Purpose

1. To receive and evaluate evidence of Honor Code violations and to assure against false accusations.

- 2. To determine guilt or innocence.
- 3. To forward to the Dean of the School of Medicine appropriate penalties for the guilty.

Article III – Membership and Officers

- 1. The Honor Council shall consist of nine voting student members and a non-voting faculty advisor appointed by the Dean of the School of Medicine.
- 2. The first, second, third, and fourth year classes shall elect two representatives to the Honor Council. These representatives may hold additional offices in the class.
- 3. The Vice President of the fourth year class shall be chairperson of the Honor Council. He or she will appoint the Secretary of the Honor Council from among the eight elected representatives.

Article IV – Duties of Officers

- 1. It shall be the duty of the Chairperson to preside at all meetings of the honor council, to arrange for the hearing of any student accused, and to perform all duties common to his or her office.
- The Secretary shall keep full minutes of all meetings and full proceedings of all hearings, which must be kept in permanent files. The Secretary shall notify all members of all hearings, meetings, and retreats and shall perform any other related duties.

Article V – Meetings

- One regular meeting shall be held within four weeks of the start of the school year. At this meeting, the Chairperson of the Honor Council and the Dean of the School of Medicine will explain the duties and procedures of the Honor Council to the members.
- Special meetings may be called by the Chairperson at any time and must be called within ten (10) working days when requested by two or more members of the Honor Council.
- 3. All meetings shall be conducted according to Roberts Rules of Order, Newly Revised.
- 4. A meeting by the Honor Council to re-evaluate and review the Honor Code should be convened a minimum of every four years.

Article VI – Quorum

Five members of the Council of nine shall constitute a quorum.

Article VII – Hearings

- 1. A hearing shall be called by the Chairperson of the Honor Council, if appropriate.
- The accuser and the accused must be present at all hearings during the presentation of evidence and the accused has a right to question the accuser and any witnesses and make a statement to the Council.
- 3. Legal counsel will not be allowed for any party at a hearing, but the accused may have present a character witness or non-legally trained faculty advisor if he or she so chooses.
- 4. Any member of the Honor Council related by birth or marriage to the accused or the accuser or has any other personal interest in the hearing shall relieve himself or herself from participation in that hearing.
- 5. The proceedings of the hearing are confidential and a member to the hearing is not at liberty to discuss them with anyone other than the members of the Honor Council present at the hearing or other persons with a legitimate need to know, e.g. law enforcement agents; at times, attorneys.
- 6. Upon completion of the review of evidence, the Honor Council in closed executive session shall reach a decision of "guilty" or "not guilty" of violation of the Honor Code by simple majority vote. It shall be reported as "guilty" or "not guilty." The presiding officer has a vote in all decisions unless contraindicated by Roberts Rules of Order.
- 7. Written notice of the decision will be sent to the accused and to the Dean of the School of Medicine. The dean will also receive the vote count, a written summary of the case, and an oral report of the case from the Chairperson. Regardless of outcome, reported violations and subsequent decisions of the Honor Council will be shared with the Promotions Committee. In the case of a "guilty" verdict, the Promotions Committee will receive a written summary of the proceedings. The written summary also will be kept in the permanent records of the Honor Council.
- 8. When the Honor Council reaches a decision of guilty, the penalty, representing the majority opinion of the Honor Council, shall be sent to the Dean of the School of Medicine. The recommended penalties should conform to the severity of offenses and may include expulsion from the School of Medicine.

Article VIII – Publicity

 Each new student entering the School of Medicine will be informed by the Honor Council as to the functions of the Honor System and his or her obligations to the Honor Code. Each student will be provided a copy of the Constitution and Bylaws of the Honor System and the Honor Code.

- 2. At the commencement of each academic year, all students shall reaffirm their commitment to the honor system by signing the honor code.
- 3. Names of the members of the Honor Council will be made known to all students upon commencement of each academic year. The Honor Council members will be accessible to any student to address concerns or questions regarding protocol, violations, or other Honor Council issues.
- 4. All written examinations will include a blank space where students will be required to freehand write the statement, 'I continue to abide by the Honor Code.' The student must sign below the statement. All written examinations must contain the student's written statement and signature to be considered complete.

Article IX – Miscellaneous

In case a student withdraws from the School after a charge has been made against him or her and before the hearing, the Honor Council shall record the facts and the accused shall not be allowed to re-enter until he or she has had a hearing before the Honor Council.

Article X – Amendments

Amendments to this Constitution shall require for their adoption the approval of a majority of the total membership of the Honor Council and ratification by a majority of the voting student body. These amendments must be approved by the Dean and Executive Faculty before becoming final.

Bylaws

Article I – Reporting an Incident

- If a student or instructor has reason to believe that a breach of the Honor Code has been committed he or she must, within seven class days, report the incident in signed written form in one of the following ways:
 - A. Directly to the chairperson of the Honor Council, or

B. By way of the Dean (or his or her designee) who will notify the Chairperson of the Honor Council, or

C. To any member of the Honor Council, who will report directly and only to either the Chairperson of the Honor Council or the Dean (or his or her designee).

- Failure to take action on an incident is in itself a breach of the Honor Code. Students are required to report in writing and in confidence any suspected violations of the Honor Code.
- 3. Once an incident is reported, it shall be the responsibility of the Honor Council, not the student or instructor, to investigate the incident and determine the next course of action regarding said incident. The student or instructor who reports a violation is charged with maintaining confidence of his or her accusation; the accused is also required to maintain the confidence of the accusation and the hearing. Such confidence can be broken only as required in response to law enforcement agencies and to assure access to appropriate advice and counsel and the ability on the part of the accused to present evidence.
- 4. Perjury before the Dean or any Honor Council member regarding the reporting of, or investigation of an incident is a breach of the Honor Code and is subject to punishment under the Bylaws of the Honor Code.

- 5. Once an incident has been reported the Honor Council Chairperson and the Dean (or his or her designee) will meet to discuss the incident. The Chairperson may appoint a committee of two (2) members from the Honor Council to investigate the case and report its findings to the Dean (or his or her designee) and Chairperson. With the advice of the Dean (or his or her designee), the Chairperson of the Honor Council will then decide whether to convene the Honor Council. If the decision is made to convene the Honor Council, the student in question will be notified that he or she has been formally accused of a violation of the Honor Code. The Honor Council should be convened promptly, but in no instance later than ten class days from the initial reporting of the incident to the Chairperson. Both the accuser and the accused will be notified of the nature of the charge as well as the time and place of the assembly of the Honor Council.
- 6. Once the Honor Council is assembled, the accusation will be presented by the Chairperson, and a hearing will be held by the Honor Council.
- 7. A student who has committed a violation of the Honor Code and presents him or herself before the Dean (or his or her designee) or an Honor Council member will be given consideration for his or her initiative in reporting his or her own transgression. The Chairperson, with advice of the Dean, will decide if investigation or convention of the Honor Council is warranted. If investigation and convention of the Honor Council is not warranted, the Chairperson and the Dean will decide the penalty for the violation.

Article II – Investigations

The Chairperson at his or her own discretion may appoint a committee of two (2) members from the Honor Council to investigate a case and report its findings to the Honor Council. In the event of a hearing, this committee shall present evidence to the Council and shall be ineligible to vote or count towards a quorum in the case.

Article III – Penalties

- Penalties given to those declared "guilty" will be recommended by the Honor Council and enforced by the Dean of the School of Medicine as he or she sees fit. The final decision and penalty will be reported by the Dean to the student involved, to the reporting individual, and to the honor council.
- Depending on the circumstances, penalties may range from the minimum of failure of the test, paper, or course involved to the maximum of expulsion from the School of Medicine.
- 3. If the violation was committed under extenuating circumstances, the Honor Council may, by a majority vote, recommend a suspension of the sentence. However, suspension of the sentence shall in no way alter the findings of "guilt" under the Code.

Article IV – Appeals

- Appeals to any final actions that result from Honor Council hearings can be made with a petition to the Vanderbilt University Appellate Review Board as follows:
- A. The appeals petition must be in writing.
- B. It must specify the grounds for appeal.
- C. It must be filed within seven class days or exam days of the original notification of the finding of guilt or within two calendar weeks if school is not in session for seven days following the notification.

Article V – Summer Honor Council

1. The Summer Council will have official functions from the day following University Commencement exercises until the day class registration begins for the fall semester.

- The Summer Council will be composed of the representatives of the "rising" Second through Fourth Year Classes as previously designated. The eighth and ninth members will be appointed by the Dean from the "rising" student body.
- 3. In the event that a designated member will not be in Nashville during the summer, then the respective class President should appoint a member of his or her class, to be approved by the Honor Council, who will be in Nashville to fill the vacancy.
- 4. In the event that the designated Chairperson will not be in Nashville during the summer, then the Dean should recommend a chairperson from the members of the Summer Council subject to council approval.

Grading Policy for the School of Medicine

The Vanderbilt University School of Medicine has established a series of learning objectives for its educational pr ogram that can be cluster ed into the following categories: (1) knowledge, (2) skills in accessing information, (3) skills for the diagnosis and management of patient pr oblems, (4) clinical reasoning skills, (5) skills in communication and interpersonal relations, (6) pr ofessional development and (7) pr ofessional values. The achievement of these educational objectives defines the successful development of the physician-in-training and occurs during the course of a student's progress in medical school.

All Years

Students will be evaluated on both acquisition of knowledge and skills as well as professional development and values. Appropriate professional values are expected of medical students thr oughout all stages of pr ofessional training. In the category of pr ofessional values, students will be evaluated in each course as meeting standards, cause for some concern, or cause for major concern. Any student causing any level of concern should be promptly identified and brought to the attention of the Associate Dean for Students so that counseling can be initiated. A student for whom major concern persists will be given a failing grade (F) for the course with out regard to performance in other categories. Such students are subject to dismissal. If some concern is noted in mor e than one course and persists after counseling, this student will be automatically r eviewed by the promotions committee and will be subject to dismissal.

A grade of Incomplete is to be used only to r eflect that work has not been completed and should not be used when work has been completed, but at an unsatisfactory level and requiring remediation.

Year One

• Final grades for all courses in VMS1 will be Pass (P), Pass* (P*), or Fail (F).

- A P grade is to be given to students for performance that is completely satisfactory in all aspects of course work.
- A grade of P* will be given to students whose performance is marginal because of important deficiencies in some aspects of course work. A student with two or more P* grades will receive special review by the Promotion Committee, which may recommend that the student undertake remedial activities. The P* grade may be applicable for academic credit in an individual course only after approval by the student's Promotion Committee and endorsement by the Executive Faculty as reviewed in light of the student's complete record for the year. Upon receiving such approval, the P* grade will be recorded on the official transcript as a P. In the absence of such approval, the P* grade will be recorded on the official transcript as an F.
- An F grade is given for unsatisfactory work resulting in failure. A student with one or more F grades will receive special review by the Promotion Committee. Such a student will be required to undertake remedial activities or be subject to dismissal. An F grade will remain on the student's official transcript along with the grade achieved in remediation.

Year Two

- Final grades for all courses in VMS2 will be Honors (H), Pass (P), Pass* (P*), or Fail (F).
- An H grade for a course is to be given to students for superior performance in all aspects of the course. A student must meet standards in all categories of professional values to be given an H grade. Ordinarily, honors grades will be given to no more than 25% of a class.
- Other grades are defined as for VMS1.

Years Three and Four

Faculty and House Staff Assessments of Students. Faculty and house staff providing primary evaluations of students will not r ecommend letter grades. The evaluation provided by faculty and house staff will provide (1) assessments of the fr equency with which each student demonstrates behavior in the various categories subject to evaluation, (2) narrative comments, and (3) an evaluation of suitability for appointment to r esidency on the service.

Determining Clerkship Grades. Students will receive a grade for each category of learning objectives and a final course grade. For the categories other than Values, discussed above, and for the final grade, each student will be graded Honors (H), High Pass (HP), Pass (P), Pass* (P*), or Fail (F).

Determining Grades for Categories:

• An H grade will be given to students demonstrating superior achievement in a category.

• A HP grade will be given to students demonstrating better than average, but not superior achievement in a category.

• A P grade will be given to students demonstrating completely satisfactory performance in a category.

• A grade of P* will be given to students whose achievement in a category is marginal.

• An F grade will be given for unsatisfactory achievement in a category A student receiving an F in any category must receive an F for the clerkship.

Determining Clerkship Grades:

- An H grade will be given to students for superior or outstanding achievement in all of the categories. Ordinarily, honors grades will be given to no more than 25% of a class.
- A HP grade will be given to students with superior achievement in several, but not all categories.
- A P grade will be given to students who demonstrate satisfactory achievement in all categories.
- A grade of P* will be given to students whose performance is marginal because of important deficiencies in some aspects of course work. The P* grade may be applicable for academic credit in an individual course only after approval by the student's Promotion Committee and endorsement by the Executive Faculty as reviewed in light of the student's complete record for the year. Upon receiving such approval, the P* grade will be recorded on the official transcript as a P. In the absence of such approval, the P* grade will be recorded on the official transcript as an F.
- An F grade is given for unsatisfactory work resulting in failure. A student receiving an F in any individual category must receive an F for the clerkship. Similarly, a student with concerns in the area of Professional Values is subject to receiving an F grade based on the criteria defined above.

Requirements for Satisfactory Progress in the Clinical Years.

Promotion in the clinical years r equires not only satisfactory performance in each clerkship, but also satisfactory achievement in each of the six categories of learning objectives and in the area of professional values. An F or P* grade in a course will lead to special review by the Promotions Committee. A P* grade in the same category in more than two courses will also lead to special r eview by the Pr omotions Committee. Pr omotion Committees may r equire students with F or P* grades in categories or courses to undertake special remedial activities. Students with an F in one clerkship, P* grades in two clerkships, or P* grades in the same category in three clerkships are subject to dismissal after r eview by the Promotion Committee. The criteria for pr ofessional values described above ar e also applicable in the clinical years.

Things Every Student Should Know about Electives

The student should use the elective pr ogram to increase knowledge in fields of particular interest or to correct deficiencies in overall medical education. Therefore, the number and content of electives will poperly vary for each student. For these reasons, we have not established absolute limits for the number of elective hours to be taken each year but have r ecommended a minimal level of two electives spring semester for first year students and two electives per semester for second year students. In the first year fall semester, students must take the four electives designed as "Introduction to Patient Clinical Professionalism." In order to maintain the desir ed flexibility, there must be a high level of student r esponsibility for participation in the elective program. ELECTIVE TIME IS NOT FREE TIME but time for the student to enrich his or her education in areas of interest.

For many students elective involvement has opened the door to life long interests and has been a determinant of car eer choice. The Associate Dean of Students may adjust the quantity or content of electives after consultation with the student. Electives in the first and second years ar e graded on a pass/fail basis to encourage students to participate in a rigorous program of study.

Electives are taken for credit and students must perform satisfactorily in their required and elective work to be promoted. The Associate Dean of Students must appr ove a pr ogram of electives. Electives may be chosen fr om courses of fered at V anderbilt Medical School or by independent arrangement for r esearch or a tutorial. Courses in other schools of the University may be taken for elective credit if the course is related to the student's medical education program. Approval by the Associate Dean of Students must be obtained in advance of registration for courses at other schools.

The designation known as "audit" does not carry any cr edit whatsoever, nor will it be shown on the student's transcript. However, students who receive approval to audit coursework fr om the Associate Dean of Students and the course instructor involved are expected to attend class meetings whenever possible.

Students may not be paid for work performed as part of their elective, required, or selective coursework for cr edit. Exceptions to this r ule are made only when students ar e in special pr ograms, such as students on military scholarships, students in funded M.D./Ph.D. programs, and students in the Oral Surgery program when acting as residents.

Faculty Advisers

The curriculum advisers are responsible for aiding in the development of the curriculum for each student, though all faculty members ar e available for consultation and advice.

Important Educational Policies

United State Medical Licensing Examination (USMLE)

It is the policy of V anderbilt University School of Medicine that all medical students will take Step 1 and Step 2 (both Clinical Knowledge and Clinical Skills) of the United State Medical Licensing Examination (USMLE) prior to graduation, although passage of these examinations will not be a degree requirement.

Policies for Clinical Students

Clinical Electives. Students can take no more than three clinical elective units in one specialty, unless they are taken as ninth or tenth units in the fourth year.

Clinical Rotations with Relatives. Students will not be permitted to take clinical rotations under the supervision of a parent or other relative.

Excused Absences from Clinical Rotations. Students may take up to thr ee excused absence days from a clinical rotation with proper documentation. If more than three days away are required for any purpose, arrangements for make-up time must be made with the Assistant Dean for Students and the course director.

Medical Student Duty Hours Policy

In order to encourage a well-r ounded, balanced journey thr ough the clinical years of medical school, it is the policy of V anderbilt University School of Medicine that all third and fourth year students will be expected to take at least one day of f in seven. It is also expected that supervising house staff and attending physicians will be sensitive to student fatigue and total number of hours spent on clinical and educational activities.

Course Evaluation Policy

We at V anderbilt believe that medical education is a lifelong pr ocess. Learning may occur in solitary, thoughtful reflection, in patient-doctor interactions, in interactions with peers and with those mor experienced than oneself, and in a host of other settings.

In the classr ooms, laboratories, and patient car e areas of the School of Medicine and the Hospital, we believe the most effective learning is a team endeavor in which teachers ar e learners and vice versa. This mutuality is reflected, for example, in the obligation of faculty members to pr ovide grades and other constructive commentary on student performance and how it can be enhanced. And it is reflected in the expectation that students will provide evaluative feedback and commentary on each course in order to improve the quality of instruction at Vanderbilt. Both processes of evaluation are essential to the Vanderbilt educational experience.

The student curriculum committee and the undergraduate medical education committee endorse the following guidelines in or der to elicit the meaningful participation of every student in the evaluation process.

1. Every required course/clerkship will be evaluated by students.

2. The evaluation instr ument (e.g., questionnair e) should be the product of student-faculty collaboration and of reasonable length.

3. Every student is expected to respond in a professional manner to each item which she/he feels qualified to answer.

4. Strict anonymity of responses must be assured.

5. Failure to r espond will r esult in withholding the grade for the course. Further, repeated failure to r espond in a timely and r easonable fashion will be br ought to the attention of the appr opriate Promotion Committee.

Objectives of the Program

1. Knowledge of the normal str ucture and function of the body and of each of its major organ systems.

2. Knowledge of the genetic, molecular biochemical, and cellular mechanisms that are important in maintaining the body's homeostasis.

3. Knowledge of the various causes (e.g., genetic, developmental, metabolic, toxic, micr obiologic, autoimmune, neoplastic, degenerative, and traumatic) of maladies and the ways in which they operate on the body (pathogenesis).

4. Knowledge of the alter ed structure and function (pathology and pathophysiology) of the body as seen in various diseases and conditions.

5. An understanding of the power and the principles of the scientific method in establishing the causation of disease and in assessing the efficacy of traditional and non traditional therapies.

6. The ability to obtain an accurate medical history that covers all essential aspects of the history, including issues related to age, gender, and socio-economic status.

7. The ability to perform both a complete and an or gan system specific examination, including a mental status examination.

8. Knowledge of the most fr equent clinical, laboratory, imaging, and pathologic manifestations of common maladies.

9. The ability to interpret the results of commonly used diagnostic procedures.

10. The ability to perform routine technical procedures.

11. The ability to reason deductively in solving clinical problems.

12. The ability to constr uct appropriate diagnostic and therapeutic management strategies for patients with common conditions.

13. The ability to r ecognize and treat patients with life thr eatening emergencies.

14. The ability to communicate effectively, both orally and in writing, with patients, patients' families, colleagues, and others with whom physicians must exchange information.

15. Knowledge of the economic, psychological, social, and cultural factors that contribute to the development and/or continuation of maladies.

16. Knowledge of the epidemiology of common maladies within a defined population, and the systematic appr oaches useful in r educing the incidence and prevalence of those maladies.

17. The ability to identify factors that place individuals at risk for disease or injury, to select appropriate diagnostic tests, and to determine a rational therapeutic response.

18. The ability to r etrieve (from electronic databases and other r esources), manage, and utilize biomedical information for solving pr oblems and making decisions.

19. Knowledge of the theories and principles that govern ethical decision making, and an understanding of their application in the solution of ethical dilemmas in medicine.

20. Knowledge of various appr oaches to the or ganization, financing, and delivery of health care.

21. Knowledge of the principles of medical research and critical evaluation of its significance.

22. Compassionate tr eatment of all patients, r espect for their privacy and dignity, and an understanding of their needs and their families' needs at the time of death.

23. Honesty and integrity in all interactions with patients, patients' families, colleagues, and others with whom physicians must interact in their professional lives.

24. A commitment to pr ovide care to patients who ar e unable to pay and to advocate for access to health car e for members of underserved populations.

25. A commitment to advocate at all times for the interests of one's patients over one's own interests.

26. An understanding of, and r espect for, the roles of other health car e professionals, and of the need to collaborate with others in caring for individual patients and in promoting the health of defined populations.

27. An understanding of the thr eats to medical professionalism posed by the conflicts of interest inherent in various financial and organizational arrangements for the practice of medicine.

28. The capacity to recognize and accept limitations in one's knowledge and clinical skills, and to acknowledge and rectify personal shortcomings that may result from those limitations.

29. A commitment to practice medicine in a scholarly manner based on an understanding of the need to engage in lifelong learning.

30. Commitment to achieve excellence in pr ofessional area(s) of individual interest.

History of the School

The first diplomas issued by V anderbilt University were to sixty-one Doctors of Medicine in Febr uary of 1875, thanks to an arrangement that recognized the University of Nashville's medical school as serving both institutions. Thus, Vanderbilt embraced a fully-organized and functioning medical school even before its own campus was ready for classes in October of that year.

The arrangement continued for twenty more years, until the school was reorganized under control of the Boar d of T rust. In the early days, the School of Medicine was owned and operated as a private pr operty of the practicing physicians who composed the faculty and r eceived the fees paid by students—a system typical of medical education in the United States at the time. V anderbilt made no financial contribution to the school's support and exer cised no control over admission r equirements, the curriculum, or standar ds for graduation. After reorganization under the Vanderbilt Board in 1895, admission r equirements were raised, the course was lengthened, and the system of instruction was changed to include laboratory work in the basic sciences.

The famous report of Abraham Flexner, published by the Carnegie Foundation in 1910 and afterward credited with revolutionizing medical education in America, singled out Vanderbilt as "the institution to which the responsibility for medical education in Tennessee should just now be left." Large grants from Andrew Carnegie and his foundation, and fr om the Rockefeller-financed General Education Board, enabled Vanderbilt to carry out the recommendations of the Flexner Report. (These two philanthropies, with the addition of the For d Foundation in r ecent years, have contributed altogether mor e than \$20,000,000 to the School of Medicine since 1911.) The reorganized school drew upon the best-trained scientists and teachers in the nation for its faculty. The full benefits of r eorganization were realized in 1925 when the school moved fr om the old South Campus across town to the main campus, thus integrating instruction in the medical sciences with the r est of the University. The school's new quarters were called "the best arranged combination school and hospital to be found in the United States."

Rudolph A. Light Hall, completed in 1977, is a sophisticated facility providing much-needed space for medical education and other student activities. The seven-story structure contains 209,000 square feet of space housing the latest in laboratory equipment, audio-visual and electr onic teaching tools, and multi-purpose classroom space. The second floor student lounge is designed to foster medical student interaction and to permit informal educational experiences—leading to the development of physicians grounded in the sciences but enlightened by humanitarian interests and understanding. Light Hall is the physical manifestation of Vanderbilt University School of Medicine's ongoing commitment to excellence in all areas of medical education.

The Medical Research Building, completed in 1989, pr ovides laboratories and academic space for pharmacology, biochemistry, and molecular physiology and biophysics. The eight-story building also houses the A. B. Hancock Jr. Memorial Laboratory for Cancer Resear ch and the positr on emission tomography (PET) scanner.



Admission

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Requirements for Entrance

Vanderbilt University School of Medicine seeks students with a str ong background in both science and the liberal arts who will have the baccalaureate degree before matriculation. The Medical College Admission Test (MCAT) is required and used along with other observations to pr edict success in preclinical course work.

Applicants must pr esent evidence of having satisfactorily completed all of the minimum r equirements listed below by the completion of the fall semester of the application year. A semester hour is the credit value of sixteen weeks of work consisting of one hour of lecture or recitation or at least two hours of laboratory.

Biology. Eight semester hours, including laboratory in either general biology, zoology, or molecular biology.

Chemistry. A minimum of 16 semester hours, 8 in general inor ganic chemistry, including laboratory, and 8 in organic chemistry.

While a year of inor ganic chemistry is designated, V anderbilt will accept the additional 8 hours with lab in an upper level chemistry course(s) other than or ganic, especially if the student has placed out of the entry level course.

English and Composition. Six semester hours.

Physics. Eight semester hours, including laboratory.

Advanced placement cr edits, CPLE cr edits, and pass/fail cr edits are not acceptable in lieu of any requirements. Advanced courses in the same discipline may be substituted for the traditional r equirements when the applicant has placed out of the entry level course.

The faculty of the Vanderbilt University School of Medicine recognizes its responsibility to present candidates for the M.D. degree who have the knowledge and skills to function in a broad variety of clinical situations and to render a wide spectrum of patient care. Candidates for the M.D. degree will or dinarily have the broad preliminary preparation to enter postgraduate medical education in any of the diverse specialties of medicine. All candidates for admission must possess sufficient intellectual ability, emotional stability, and sensory and motor function to meet the academic requirements of the School of Medicine without fundamental alteration in the nature of this program. The Assistant Dean, in consultation with the Admissions Committee of the School of Medicine, is responsible for interpreting these technical standards as they might apply to an individual applicant to the School of Medicine.

Recommendations for Entrance

A broad experience in non-science courses is encouraged, especially experience beyond the intr oductory course level in ar eas such as English, the humanities, the arts, and the social and behavioral sciences. A major in non-science courses does not affect selection.

Selection Factors

Vanderbilt University School of Medicine (VUSM) seeks to matriculate a diverse gr oup of academically exceptional students whose attributes and accomplishments suggest that they will be futur e leaders and/or scholars in medicine. To accomplish this goal, VUSM provides a review of each candidate by multiple members of the faculty who ar e broadly representative of the faculty body. The committee uses a holistic approach to evaluate an array of applicant attributes, including academic excellence, personal characteristics, accomplishments in research, leadership, service to others, contribution to diversity (gender, race, ethnicity, sexual preference, socio-economic backgr ound, geographic origin), and participation in extracurricular activities.

Medical College Admission Test

The Medical College Admission Test is given under the auspices of the Association of American Medical Colleges and is required of applicants to Vanderbilt. It is given twice a year at most universities and colleges. Since the examination score is used by medical schools in the selection of applicants, candidates should take the test in the spring prior to the time application is submitted, if possible. Results of the fall examination ar e acceptable, but will delay review of the application.

Application Procedure for Admission

As a convenience to the applicant, V anderbilt University School of Medicine participates in the American Medical College Application Service. All application materials may be obtained on-line thr ough AMCAS by going to *http://aamc.org*. AMCAS applications are screened by four faculty screening committees in or der to select applicants for interview . Interviews are conducted at Vanderbilt between the third week of August and March. Interviewers consist of 50 faculty trained in interviewing techniques.

The Committee on Admissions evaluates the initial application r eceived through the application service. Applicants receiving a favorable initial review are invited to be interviewed and to request letters of evaluation. Applications are received on-line by AMCAS any time after 1 June and before 15 November pr eceding an anticipated fall semester enr ollment date. Vanderbilt participates in the Early Decision Program through the American Medical College Application Service. Vanderbilt University School of Medicine has five dual degree programs: M.D./Divinity, M.D./J.D., M.D./MBA, M.D./M.P.H., and M.D./Ph.D. For all these degrees, except the M.D./Ph.D., the first two years are spent in medical school studying the basic sciences. A leave of absence is taken after year two to complete the second degree. Entrance into year three of medical school begins after the second degree is completed. One year of study is eliminated once the dual degree plan is implemented. Application is made to each program separately. Admission to both programs permits pursuit of the dual degree.

A single application is made to the M.D./Ph.D. pr ogram by indicating M.D./Ph.D. degree on the AMCAS application to V anderbilt University School of Medicine and completing the MSTP secondary application. After screening of the applicant by the Vanderbilt University Medical School Admissions Office, the M.D., Ph.D. application is considered by a separate admissions committee.

Medical Scientist Training Program

The first phase consists of the first two years of medical school, devoted largely to the basic biomedical sciences. Students then enter the graduate school (Ph.D.) phase of the pr ogram after the second year of medical school. During this second phase, the student meets the Graduate School requirements for the completion of the Ph.D. degree. The third phase consists of the core clinical clerkships of the third year and the elective and selective clinical rotations of the fourth year of medical school.

Requirements for the Ph.D. degree are set out in detail in the *Bulletin of Vanderbilt University: Graduate School Catalog.* Briefly stated, Ph.D. stu dents must complete 72 hours of graduate work for cr edit, of which a minimum of 24 hours is r equired in formal course and seminar work. Ph.D. students must also complete a qualifying examination to test their knowledge of their field of specialization and pr esent an acceptable dissertation in the major field of study.

M.D./Ph.D. students are encouraged to begin courses for graduate school credit and to select a pr eceptor to supervise their dissertation r esearch as soon as possible. Enrollment in the program begins in late June in the summer prior to matriculation in the first year School of Medicine class. Certain Graduate School courses may be taken as part of the elective program in the School of Medicine and be applied towar d formal course work requirements for the Ph.D. degree. The M.D./Ph.D. student must be officially enrolled in any one semester in either or both the Medical and Graduate schools to ensur e appropriate assignment of cr edits. Students must complete all course work and the r esearch, writing, and defense of the Ph.D. dissertation before entering the third phase of the program.

Financial Support

Special funding (tuition and stipend) is available for those who gain admission to the Medical Scientist Training (M.D./Ph.D.) Program.

The limitations of financial support create a competitive situation in the selection process. Candidates are urged to submit their application to the M.D./Ph.D. program as early as possible. In accepting financial support for the pr ogram, the student agr ees to pr omote primary ef fort to M.D./Ph.D. studies, and further agrees not to undertake concurrently any other gainful employment or effort without formal approval of the Medical Scientist Training Program Committee and the Medical School of ficers responsible for the M.D./Ph.D. program.

In general, financial support is arranged by mutual agreement of the Medical Scientist Training Program Committee, the Dean of the Medical School and, in certain instances, the chair of the graduate department involved. Various sources of funds are available with different restrictions, obligations, and levels of support. Some potential sour ces for support available to the student include the following:

Vanderbilt Medical Scientist Scholarship Pr ograms. Currently there are several sources of funding available in support of the scholarship awards, a privately endowed pr ogram and a special allocation of funds by the School of Medicine. These pr ograms pay tuition and fees and pr ovide a competitive stipend. Once awarded, support from these scholarships will continue, contingent upon satisfactory performance, until the M.D. degree is awarded.

National Research Service Award. Financial support is available through an institutional grant awar ded to V anderbilt University Medical School by the National Institute of General Medical Sciences. The support pays tuition at the current level, provides a stipend (plus a Medical School supplement) per year, and includes funds for fees and r elated expenses. As with all federal funding, support is guaranteed for only one year at a time, since all federal funds ar e reviewed and funded annually. Generally, funds are renewed and support is continued.

Departmental Support. Limited resources are available through graduate departments. Tuition awards are available as well as some stipend support either from federal training grants or r esearch funds. Interested students should r equest from their faculty adviser or department chair specific information on the availability of this type of support.

Personal Support. This refers to the student's own resources or sources of funds. Approved students for the Medical Scientist T raining Program who do not receive financial support from any of the above sour ces may remain in the joint pr ogram at their own expense. Although not guaranteed, financial support can usually be obtained for the graduate phase of the M.D./Ph.D. program.

Other Joint Degree Programs

M.D./J.D. Joint Degree Program

This describes the featur es of a joint M.D./J.D. degr ee. Such a degr ee, with its potential to attract outstanding students to both pr ograms, will benefit both the Vanderbilt University School of Medicine and Vanderbilt Law School. It of fers an excellent opportunity to enhance the collaboration between these two programs.

Students must apply to each pr ogram separately and be accepted by both programs to pursue the joint degree. Ideally, students will apply for joint degree status before enrolling in either pr ogram. However, medical students may elect to apply for admission to the joint degr ee program at any time during their first three years in the medical school. Law students who apply to the medical school during their first year in the law pr ogram may also be considered for the joint degree.

Joint degree students will complete both degrees in six years, saving one year in school, as medical school or dinarily takes four years and law school takes three.

M.D./M.S. in Biomedical Engineering

This describes the features of a joint M.D./M.S. program in biomedical engineering degree. Such a degree, with its potential to attract outstanding students to both programs, will benefit both the Vanderbilt University School of Medicine and Vanderbilt's Biomedical Engineering Department in the School of Engineering. It offers an excellent opportunity to enhance the collaboration between these two programs.

Students must apply to each pr ogram separately and be accepted by both programs to pursue the joint degrees. Ideally, students will apply for joint degree status before enrolling in either pr ogram. However, medical students may elect to apply for admission to the joint degree program at any time during their first three years in the medical school.

Joint degree students will complete both degrees in five years, saving one year in school, since or dinarily medical school takes four years and the M.S. in biomedical engineering two years.

M.D./M.S. in Biomedical Informatics

This describes the features of a joint M.D./M.S. program in biomedical informatics program. Such a degree program, with its potential to attract outstanding students to both schools, will benefit both the V anderbilt University School of Medicine and V anderbilt's Biomedical Informatics Department. It of fers an excellent opportunity to enhance the collaboration between these two programs.

Students will apply to each pr ogram separately and must be accepted by both programs to pursue the joint degree. Ideally, students will apply for joint degree status prior to enr olling in either pr ogram. However, medical students may elect to apply for admission to the joint degree program at any time during their first three years in the medical school.

Joint degree students will complete both degrees in six years, saving one-half year in school, since medical school or dinarily takes four years and the M.S. in biomedical informatics two and one-half years.

M.D./M.Div. and M.D./M.T.S.

This describes the featur es of joint degr ees of the Medical School and the Divinity School. The M.D./M.Div. and M.D./M.T.S. degrees represent the Medical Doctorate and the Master of Divinity and Master of Theological Studies. These joint degr ee programs provide the potential to attract outstanding students to both schools and will benefit both the Vanderbilt University School of Medicine and Vanderbilt Divinity School. This offers an excellent opportunity to enhance the collaboration between these two schools.

Students must apply to each school separately and be accepted by both to pursue the joint degree. Ideally, students will apply for joint degree status before enrolling in either pr ogram. However, medical students may elect to apply for admission to the joint degr ee program at any time during their first thr ee years in the medical school. Divinity students who apply to the medical school during their first year in the divinity program may also be considered for the joint degree.

Students with interest in medical and divinity degrees will have the opportunity to enroll in one of two joint degree programs.

The M.D./M.Div. (M.D./Master of Divinity) joint degree program will take a total of six years for completion. This saves one year as the M.D. de gree or dinarily takes four years and the Master of Divinity takes thr ee. The Master of Divinity is a professional degree and prepares students for the practice of ministry. This program has a required field education component as part of the Master of Divinity degree requirements. In this program, students will carry 15 cr edit hours per semester while in the Divinity School.

M.D./M.S. in Computer Science

This describes the features of a joint M.D./M.S. in computer science degree program. Such a degr ee program, with its potential to attract outstanding students to both schools, will benefit both the V anderbilt University School of Medicine and V anderbilt's Computer Science Pr ogram in the School of Engineering. It ofers an excellent opportunity to enhance the collaboration between these two schools.

Students must apply to each pr ogram separately and be accepted by both programs to pursue the joint degr ees. Students must meet r equirements of each program for admission. Ideally, students will apply for joint degree status prior to enrolling in either program. However, medical students may elect to apply for admission to the joint degree program at any time during their first three years in the medical school.

Joint degree students will complete both degr ees in five years, saving one year in school, since medical school or dinarily takes four years and the computer science program two years.

M.D./M.Ed. Program

This describes the features of a joint degree program leading to completion of both the M.D. and M.Ed. degr ees in five years. Such a pr ogram, with its potential to attract outstanding students, would benefit both the School of Medicine and Peabody College of Education and Human Development. It offers an excellent opportunity to enhance the collaboration between these two schools.

Education is an integral part of medicine. The word doctor comes from the Greek and means teacher. Whether a student chooses a car eer in research or clinical practice, ther e always will be a need to teach students, patients, and colleagues. Students who choose this program may be interested in patient education or in a career in an academic center working in medical education. They also may be interested in leadership positions at the national level that interface with health policy and education. Education will be a large part of prevention in future medical practice.

Students must apply to the M.D. and M.Ed. pr ograms separately and be accepted by both programs to pursue the joint degree. Ideally, students will apply for joint degree status before enrolling in either program. However, medical students may elect to apply for admission to the joint degree program at any time during their first thr ee years in the School of Medicine. Peabody students may apply for admission to the M.D. pr ogram during their first year in the master's program.

Joint degree students will complete both degr ees in five years, saving on year in school, as medical school or dinarily takes four years and the Peabody program two years.

M.D./M.P.H. Program

This describes the featur es of joint the M.D./M.P. H. degree program. Such a program, with its potential to attract outstanding students interested in public health and medicine, will benefit the educational program of the School of Medicine.

Students must apply to each pr ogram separately and be accepted by both programs to pursue the joint degr ee. Medical students may elect to apply for admission to the joint degr ee program at any time during their first three years in the medical school. An important component of the M.P.H. program is a mentored research investigation, which assumes a degree of student independence typically associated with fellowship or junior faculty status. Thus, acceptance into the M.P. H. program will be r estricted to students who exhibit this capacity and will require pre-identification of a qualified faculty member willing to serve as the student's mentor.

Joint degree students will complete both degr ees in five years, saving one year in school, since medical school or dinarily takes four years and the M.P.H. program two years.

M.D./MBA Program

This describes the features of a joint M.D./MBA degree program. Such a program, with its potential to attract outstanding students to both schools, will benefit both the V anderbilt University School of Medicine and Vanderbilt's Owen Graduate School of Management. It of fers an excellent opportunity to enhance the collaboration between these two pr ograms.

Students must apply to each pr ogram separately and be accepted by both programs to pursue the joint degree. Ideally, students will apply for joint degree status prior to enrolling in either program. However, medical students may elect to apply for admission to the joint degree program at any time during their first thr ee years in the medical school. Owen students who apply to the medical school during their first year in the MBA program may also be considered for the joint degree program.

Joint degree students will complete both degr ees in five years, saving one year in school, since medical school or dinarily takes four years and the Owen program two years. The first thr ee years are spent in medical school. Students spend their fourth year at the Owen School and then spend the fall semester of year five in medical school and the spring semester of year five at the Owen School.

Single Degree Programs

The Master of Science in Clinical Investigation Program (M.S.C.I.)

The Master of Science in Clinical Investigation pr ogram provides direct, mentored experience in clinical investigation and, thr ough didactic work, provides trainees with a strong foundation in study design, biostatistics, biomedical ethics, clinical pharmacology, human genetics and assay methods. It is expected that graduates of this program will compete successfully for grants such as the K23, KO8, and R01. These graduates will be poised to make major contributions to our understanding of the pathophysiology and tr eatment of human disease over the coming decades. Typical candidates for the Master of Science in Clinical Investigation program are physicians who have completed the clinical requirements for Board eligibility in their primary specialty . Full time V anderbilt faculty members may also apply to the program with the consent of their department chair. Post-doctoral Ph.D.s who anticipate a car eer in patient-oriented research will also be considered.

Candidates will be asked to submit an application that will include biographical information, references, career goals, and a specific proposal for a patient-oriented r esearch project. The r esearch proposal must identify the candidate's proposed mentor. Applications will be judged on the quality of the science proposed, on the commitment of the mentor to the career development of the candidate, and on the overall impact of the training program on the applicant's career development

For more information, visit our Web site at *www.mc.vanderbilt.edu/msci*

The Master of Public Health Program

The Master of Public Health (M.P. H.) program is a two-year pr ogram offered by the School of Medicine for physicians and other doctoral-level health care professionals. The primary objective of the pr ogram is to provide training for clinical and patient-oriented researchers who will conduct non-experimental studies or clinical trials with large sample sizes. The M.P.H. includes didactic course work and mentored research, the latter resulting in a thesis.

The M.P.H. program is open to physicians who have completed their residency training or other health care professionals at a comparable level. Normally, applicants will be clinical research fellows or faculty who seek training for a futur e career in epidemiologic, clinical, or health services r esearch or health administration.

A five-year joint M.D./M.P.H. degree is offered for students interested in acquiring tools needed to conceptualize and conduct studies using the methods accepted by the premiere medical journals. Students in the joint degree program apply separately to the M.P. .H. program and the M.D. program and must demonstrate a level of independence typically associated with fellowship or junior faculty status.

For more information, visit our W eb site at *www.mc.vanderbilt.edu/ prevmed/mph/Pages/Program.html*

Doctor of Audiology

The Au.D. is a four-year post-baccalaureate degree and will replace the currently offered Master of Science degree as the requirement for the entrylevel practitioner of audiology. The Doctor of Philosophy will continue to be offered to students interested in becoming teacher/investigators.

The Vanderbilt Audiology Program will help ensure that V anderbilt continues to provide excellence in its efforts to meet the increasing national demand for high quality professionals educated in the profession of audiology and to contribute to the impr ovement of hearing health car e. The program will pursue excellence by r ecruiting the very best students, exposing these students to nationally r ecognized faculty, and of fering these students unique and varied clinical experiences and special research opportunities.

Audiology is a relatively new health care profession concerned with the study, assessment, and treatment of both normal and disordered hearing in children and adults. The term audiologist typically r efers to a hearing health care professional involved in the prevention, identification, and evaluation of hearing disor ders, the selection and evaluation of amplification, and the habilitation / rehabilitation of individuals with hearing impairment.

For further information, visit our W eb site at *www.mc.vanderbilt.edu/ VanderbiltBillWilkersonCenter/AuD.html*

Master of Laboratory Science

The Master of Laboratory Science pr ogram is a two-year pr ogram offered by the School of Medicine for Vanderbilt or Meharry staff who have a B.S. or B.A. degree from an accredited institution with a GPA of 2.5, have six months to one year of r esidency at VUMC or Meharry in a r esearch laboratory, and who ar e nominated by the faculty mentor in whose lab they work with a strong letter of support.

The mission of the Master of Laboratory Science program is to provide a stronger academic base of knowledge for r esearch personnel who will continue to work in an academic research environment; to foster the professional growth and increase the intellectual investment of the r esearch assistant in the laboratory; and to improve the career growth potentials of our brightest and most qualified young r esearchers who do not wish to develop the full independent potential of the Ph.D.

For more information, visit our Web site at *http://medschool.mc.vanderbilt.edu/ mls/index.php*

Master of Science Degree in Medical Physics

Medical Physics is an applied branch of physics devoted to the application of concepts and methods from physics to the diagnosis and treatment of human disease. Medical physicists ar e concerned with thr ee primary areas of activity: clinical service and consultation, r esearch and develop ment, and teaching. Clinically, medical physicists ar e called upon to contribute scientific advice and resources to solve physical problems arising in radiological medical physics. Medical physics r esearch typically involves the development of new instr umentation and technology, the development of new medical diagnostic and therapeutic pr ocedures, and tests using existing technologies. Historically, this type of activity has been primarily in radiological imaging and radiation oncology , but now has a growing breadth of involvement thr oughout medicine. Many medical physicists not only provide clinical service, but also have faculty appointments at universities and colleges and are responsible for teaching future medical physicists, r esident physicians, medical students, and hospital technical staff.

Vanderbilt University of fers the Master of Science degr ee in Medical Physics with specialty in Radiological Medical Physics This inter disciplinary program is administered through the Departments of Radiation Oncology and Radiology and Radiological Sciences in the School of Medicine, and involves faculty and courses fr om the Vanderbilt University School of Medicine, Department of Radiology and Radiological Sciences, Department of Radiation Oncology, College of Arts and Science, Department of Physics and Astronomy, Department of Mathematics, and School of Engineering: Biomedical Engineering.

For more information, visit our Web site at *www.vanderbilt.edu/msmp/*

Visiting Medical Students

Visiting student status may be afforded students from medical schools accredited by the Liaison Committee on Medical Education or from a limited number of foreign schools with which Vanderbilt maintains exchange programs.

Visiting students from osteopathic medical schools must request an application from the department in which they wish to do course work (if class space is available) and gain departmental approval before being considered by the Office of Student Records.

Visiting students are permitted registration for course work in the medical school (if class space is available) with approval of the appropriate department and with concurrence of the course instructor and the Assistant Dean for Student Affairs. Visiting students must present evidence of adequate professional liability coverage and health insurance coverage and pay a registration fee when registering for course work. Completed applications must be r eceived in the Of fice of Student Recor ds at least eight weeks before the start date of the course. Upon arrival at Vanderbilt School of Medicine, all visiting students are required to take part in an orientation, including a Bloodborne Pathogen Training Session. Since visiting students have no status for cr edit as Vanderbilt medical students, they ar e not issued credit from Vanderbilt for their experience, nor do they establish a medical-school-based record at Vanderbilt. The normal opportunities and prerogatives of regularly enrolled medical students are not available to visiting students. The visiting student is subject to all r egulations of the University as well as to any special r egulations relating to visiting student status as determined by the department, the course instructor, or the Dean or the Dean's deputy.



The Academic Program

THE curriculum is divided into r equired courses taken by all students and elective courses taken at the choice of the individual student. Required courses constitute the nucleus of medical education at Vanderbilt; elective courses are an integral part of each student's educational experience in the School of Medicine, providing considerable flexibility for individual programming. Students develop an elective program to meet individual needs with the help of the faculty and the appr oval of the Associate Dean for Medical Students or a designee.

All electives ar e courses for cr edit. Electives in the first and second years are graded as Pass or Fail; electives and selectives in the thir d and fourth years are graded on the same basis as required courses. The format for electives includes lectur e or seminar series, specialty clinics, clinical clerkships, or research experiences at Vanderbilt or other approved institutions; and, in special circumstances, Vanderbilt undergraduate or graduate courses may be counted as electives.

The medical school curriculum in the peclinical years is organized on a semester basis. Students ar e encouraged to participate in a summer r e-search or community service experience.

The curriculum is under constant review by both faculty and students, and is subject to timely change as r ecommended by the Academic Programs Committee and approved by the Executive Faculty.

Major Courses

First Year

Biochemistry, gross anatomy, physiology, psychiatry, ecology of health care, microbiology and immunology, cell and tissue biology, and the Emphasis program. Wednesday and Friday afternoons are reserved for electives in the spring semester . Electives available to the first year student cover a wide range of subjects including alcohol and dr ug abuse, human sexuality, death and dying, cancer biology , emergency medical services, legal medicine, medicine in the community , medical ethics, intr oduction to problem solving, and a clinical preceptorship program.

Second Year

Pathology, neurosciences, pharmacology, psychiatry, radiology, laboratory diagnosis, physical diagnosis, clinical nutrition, preventive medicine, and genetics. During the second semester, all the clinical departments cooperate in pr oviding an intr oduction to history taking and the physical examination through a series of lectur es, demonstrations, small gr oup sessions, and individual student work with patients. A variety of elective courses or independent study electives may be taken on Monday Wednesday, and Friday afternoons in the fall semester , and Tuesday, Wednesday, and Friday afternoons in the spring semester.

Third Year

Medicine, obstetrics and gynecology, pediatrics, sur gery, psychiatry, and neurology. Required clerkships are scheduled primarily during the third year. Students are assigned to clerkship rotations by a computer program that optimizes their prospects of obtaining their preferred sequence. Students have close contact with selected patients under the supervision of attending physicians and house staff.

Students have the option of starting the required clerkships at different times, beginning in early July . All students are required to complete the ten-week clerkships in medicine and sur gery and two of the eight-week clerkships (obstetrics/gynecology, pediatrics, or psychiatry/neur ology) no later than June of their thir d year. Ordinarily, all required core clerkships are completed by the end of August of the fourth year, but students may defer the final cor e clerkship to a later time in or der to pursue r esearch or other special educational opportunities with the approval of the Associate Dean for Medical Student Affairs.

Fourth Year

Clinical selectives and electives in basic science and/or clinical ar eas. The fourth year is divided into four -week academic units. The flexibility of the fourth-year curriculum gives the student maximum opportunity for individual development. Eight full academic units must be completed, including one unit in primary car e, one in emergency medicine, and two inpatient selective clerkships.

FIRST YEAR, FALL SEMESTER. FIRST HALF, 2004						
HOURS	MON	TUES	WED	THURS	FRI	SAT
8–9			Diacham			
9–10	Biochem	Gross	Biochem	Gross	Biochem	
10–11		Anatomy	Psychiatry	Anatomy	Diochem	
11–12	Ecology of		- j j			
12–1	Health Care					
1–2						
2–3	Intro to	Gross	Emphasis	Gross	TBA	
3–4	Patient Clin. Profession-	Anatomy	Program	Anatomy		
4–5	alism					

FIRST YEAR, FALL SEMESTER. SECOND HALF						
HOURS	MON	TUES	WED	THURS	FRI	SAT
8–9			Biochem	0		
9–10	Biochem	Gross		Gross	Biochem	
10–11		Anatomy	Psychiatry	Anatomy		
11–12	Ecology of Health Care					
12–1						
1–2						
2–3	Intro to Patient Clin.	Gross	Emphasis	Gross	ТВА	
3–4	Profession-	Anatomy	Program	Anatomy		
4–5	alism					

*Plenary sessions—required attendance of Introduction to the Patient Clinical Professionalism

FIRST	FIRST YEAR, SPRING SEMESTER – 2006					
HOURS	MON	TUES	WED	THURS	FRI	SAT
8–9	Physiology	Physiology			Physiology	
9–10			Microbiol	Physiology		
10–11	Cell	Microbiol			Cell Biology	
11–12	Biology			Microbiol	Diology	
12–1					I	
1–2					Physiology	
2–3		Emphasis	*Electives	Emphasis		
3–4	*Electives	Program	210011100	Program	*Electives	
4–5						

*Students are required to take two electives. Electives are offered Monday, Wednesday, and Friday af-

SECOND YEAR, FALL SEMESTER, 2005						
HOURS	MON	TUES	WED	THURS	FRI	SAT
8–9					Radiology	
9–10	Pathology	Neuro-	Pathology	Neuro-		
10–11	0,	Science		Science	Pathology	
11–12						
12–1	-					
1–2	*Electives/		*Electives/		*Electives/	
2–3	Emphasis	Pathology	Emphasis	Psychiatry	Emphasis	
3–4	Program		Program		Program	
4–5						

*Students are required to take one elective. Students are required to devote two afternoons per week to their Emphasis Project.

SECO	SECOND YEAR, SPRING SEMESTER, Weeks 1 through 8					
HOURS	MON	TUES	WED	THURS	FRI	SAT
8–9	Pharm		Pharm	Pharm	Pharm	
9–10	Thaim	Physical	Physical			
10–11	Lab Diag.	Diagnosis Lab	Lab	Lab	Lab	
11–12	Nutrition		Diagnosis	Diagnosis	Diagnosis	
12–1						
1–2						
2–3	Physical	Electives/	Physical	Electives/		
3–4	Diagnosis	Emphasis Program	Emphasis Program	Diagnosis	Emphasis Program	
4–5						

SECOND YEAR, SPRING SEMESTER, Weeks 10 through 13						
HOURS	MON	TUES	WED	THURS	FRI	SAT
8–9	Pharm		Pharm	Pharm	Pharm	
9–10	1 Harri	Physical Diagnosis	Physical			
10–11	Prev. Med.		Diagnosis	Genetics	Preventive	Preventive
11–12	Nutrition			Medicine	Medicine	
12–1						
1–2		Electives/	Electives/		Electives/	
2–3	Physical	Emphasis	Emphasis	Physical	Emphasis	
3–4	Diagnosis	Program	Program	Diagnosis	Program	
4–5						

*Students are required to take one elective. Students are required to devote two afternoons per week to their Emphasis Project.

SECOND YEAR, SPRING SEMESTER, Weeks 14 through 18						
HOURS	MON	TUES	WED	THURS	FRI	SAT
8–9	Dharma		Pharm	Pharm	Pharm	
9–10	Pharm	Physical	Fliailli	Thaim		
10–11	Prev. Med.	Diagnosis	Genetics	Preventive	Preventive	
11–12	Genetics	Genetics	Medicine	Medicine		
1–2						
2–3	*Electives/ Physical		*Electives/	Physical	*Electives/	
3–4	Diagnosis	Emphasis Program	Emphasis Program	Diagnosis	Emphasis Program	
4–5		5	Ĵ			

*Students are required to take one elective. Students are required to devote two afternoons per week to their Emphasis Project.

Third Year Requirements

- 1. The following must be completed by May 29, 2005.
 - a. Medicine (504-5020) 10 weeks
 - b. Surgery (517-5020) 10 weeks

2. Two of the following are to be completed by June 24, 2005. The remaining unit should ordinarily be completed by August 28, 2005.

- a. Pediatrics (511-5020) 8 weeks
- b. Obstetrics/Gynecology (507-5020) 8 weeks
- c. Psychiatry (515-5020) and Neurology (506-5010)
 - 4 weeks + 4 weeks = 8 weeks total

3. Students may take one or more electives, provided they have completed the prerequisites.

Transfer

Acceptance for transfer is limited to the thir d year, filling places made by attrition only. Opportunities for transfer are rare because of the low attrition rate. Those students who have completed the second year in good standing at LCME-accredited U.S. or Canadian medical schools ar e eligible to apply. The deadline for applying is March 1.

Fourth Year Requirements

1. *Eight academic units* of four weeks each ar e required; additional units may be taken. The eight units consist of a minimum of (four) Selectives and four Electives. The (four) Selectives must all be done at V anderbilt and include (one) inpatient unit fr om the Medical group and (one) fr om the Surgical group listed below (Section #2). In addition all students must complete (one) unit in Primary Car e Medicine (Primary Car e Medicine, 520-5100) and (one) unit in Emergency Medicine (Emergency Service, VU 502-5950). Students may take selective experiences as one of the r egular electives on a space available basis.

Medical Group			Surgical Group		
Medicine	504-5611	VUH	OB/GYN	507-5650	VUH
	504-5612	St. Thomas	Ortho	509-5610	VUH Orthopaedic
	504-5613	VUH CCM	Surgery	517-5611	VUH GS
	504-5616	VAH Medicine		517-5612	Surgery VA
	504-5619	VAH ICU		517-5613	St. Thomas GS
	504-5690	St. Thomas ICU		517-5614	VUH ICU
Neuro	506-5615	Neurorehabilitation		517-5620	VU/VA Neuro. Surgery
Peds	511-5611	VUH		517-5630	VU CVS
Psych	515-5620	Neuropsychiatry		517-5640	Urology
				517-5660	VU Pediatric Surgery
				517-5850	Trauma
				517-5970	Otolaryngology

Survical Crown

517-5980 VU-Ped. Urology

85

2. Inpatient Clerkship Selectives (two units)

One unit fr om the Medical gr oup and one unit fr om the Sur gical group are required.

3. In addition to the (four) selective units, a minimum of (two) additional elective units are to be taken at the Vanderbilt Medical Center or the affiliated hospitals. The r emainder of the elective units may be taken away from Vanderbilt. Students enrolled in joint degree programs at Vanderbilt may fulfill the requirement for two electives with work done in the Master's or Ph.D. component of the joint degree program.

Note: Units taken for cr edit away fr om Vanderbilt require an approved proposal from the student. "Blue Petition" forms for this purpose are available fr om the Of fice of Student Recor ds, Room 203 Light Hall. The student is also r esponsible for attending to any formalities r equired by the institution being visited.

4. An academic unit composed of a combination of clinics may be taken for elective cr edit. This must include at least nine clinic meetings per week. Signatures for each clinic must be obtained through an add card at least one month prior to the beginning of the chosen unit.

The Department of Medicine offers a four-week unit for senior medical students to work in subspecialty clinics in the Department. Students work one-on-one with faculty members or fellows in at least nine clinic meetings per week. Students may choose from a variety of clinics including Allergy/Pulmonary, Cardiology, Endocrinology, Gastroenterology, Hematology/Oncology, Infectious Disease, Nephr ology, Pharmacology, and Rheumatology. Students may spend all of their time in one or two clinics or elect to work in a variety of clinics. Students arrange their schedule with attendings in various clinics, then obtain a signatur e for the course from Dr. Spickard III through an add card at least two weeks prior to the beginning of the chosen unit.

5. *Important:* Most selectives and electives are available in all units. Exceptions are noted with individual listings. Most of these have strict enr ollment limitations that are indicated under each course listing.

NOTE: REQUIREMENTS ARE SUBJECT TO CHANGE. STUDENTS WILL BE NOTIFIED.

Fourth Year Clerkships with No Prerequisites 2004/2005

Department	Course Number	Course Title
Medicine	504-5617 504-5622 504-5645 504-5710 504-5735 504-5760 504-5930 504-5940 504-5950	Clerkship in Alcohol & Drug Dependence Clerkship in Hepatology Nutrition Support Arthritis Center Palliative Care Clerkship in Rheumatology Health Promotion Clerkship Rheumatology Clinical Research **(Requires Consent of Instructor) Seminar in Clinical Electrocardiography and Electrophysiology *(Requires Consent of Instructor) Elective Rotation in Clinical Ethics
Neurology	506-5616	Neurology Research *(Requires Consent of Instructor)
Pathology	510-5610 510-5620 510-5630 510-5640 510-5650 510-5670	Clerkship in Autopsy Pathology Surgical Pathology Clinical Pathology Clerkship in Laboratory Medicine Clinical Microbiology Clerkship in Neuropathology *(Requires Arrangement with Sponsor)
Pediatrics	511-5650 511-5800 511-5920	Clerkship in Child Behavior & Development Genetics Clerkship *(Requires Interview with Sponsor) Pediatric Rehabilitation
Preventive Medicine	514-5720	Clerkship in Epidemiology at the CDC
Surgery	517-5810	Laboratory Research in Surgery

Advanced Training

In addition to its primary responsibility of educating medical students, the School of Medicine has active pr ograms for graduate students in the preclinical sciences, for postdoctoral interns and r esidents, and for postdoctoral research trainees.

Residency Training

Students preparing for the practice of medicine usually spend thr ee or more years in house staff training. Such experiences at Vanderbilt are particularly varied and well supervised. Applicants for positions ar e carefully chosen because of the competition for positions. As a r esult, the house staff makes up a competent and stimulating gr oup, with considerable responsibility in medical student teaching.

The faculty of the School of Medicine has pr ofessional responsibilities at Vanderbilt, Veterans, Saint Thomas, and Baptist hospitals. Patients in these hospitals are cared for by members of the medical staf f, assisted by the intern and resident staff.

Vanderbilt University Hospital is a referral center and consequently has a patient population with complex medical and sur gical problems. The Veterans Administration Hospital, adjacent to the V anderbilt Medical Center, serves veterans and their families from throughout the mid-south and is an important component of the teaching program. All physicians at the VA Hospital are full-time faculty members of the School of Medicine.

Post-Residency Fellowships

Postdoctoral training programs have as their goal the training of physicians for practice and certification in a medical subspecialty . Fellows admitted to these pr ograms must have completed an appr oved residency program. The fellow is expected to participate in departmental activities related to teaching, clinical services, and research.

Continuing Medical Education

Vanderbilt University School of Medicine and V anderbilt University Medical Center recognize a major commitment to the continuing educa tion of physicians and others in the health pr ofessions. The School of Medicine views medical education as a continuum initiated in the undergraduate phase, pr ogressing through graduate medical education, and maturing in ongoing continuing medical education. The pr ofessional life of the physician and all health pr ofessionals should include activities encompassing this view, with the goal of improving health care for patients. Under the auspices of the Division of Continuing Medical Education, the School of Medicine of fers a br oad spectrum of courses thr oughout the year to meet the needs of physicians in practice and other health pr ofessionals. Inquiries should be dir ected to the Division of Continuing Med ical Education.

Academic Policies

ANDERBILT students ar e bound by the Honor System inaugurated in 1875 when the University opened its doors. Fundamental responsibility for the preservation of the system inevitably falls on the individual student. It is assumed that students will demand of themselves and their fellow students complete r espect for the Honor System. All work submitted as a part of course equirements is presumed to be the product of the student submitting it unless cr edit is given by the student in the manner prescribed by the course instructor. Cheating, plagiarizing, or otherwise falsifying r esults of study ar e specifically prohibited under the Honor System. The system applies not only to examinations but also to written work and computer pr ograms submitted to instructors. The student, by registration, acknowledges the authority of the Student Honor Council of the School of Medicine.

The University's Graduate Student Conduct Council has original jurisdiction in all cases of non-academic misconduct involving graduate and professional students.

The *Student Handbook,* available at the time of registration, contains the constitution and bylaws of the Honor System and the Honor Code, as well as an explanation of the functions of the Honor System.

Requirements for M.D. Degree

Candidates for the Doctor of Medicine degr ee must be matur e and of good moral character. They must have spent at least four years of study or its equivalent as matriculated medical students at an accr edited medical school. Students accepted with advanced standing must complete at least the last two years in the Vanderbilt University School of Medicine. All students must have satisfactorily completed the medical curriculum, have passed all prescribed examinations, and have no outstanding unpaid balances with the University other than sanctioned educational loans. Students fulfilling these r equirements will be r ecommended for the degr ee Doctor of Medicine.

Advisers

The Vanderbilt Medical School has one of the lowest attrition rates in the country. The faculty and administration take an active inter est in assuring that each student achieves to maximum capability. Advisers, both student and faculty, and staff members of the office of the Dean are available to assist students toward successful development of their plans.

Licensure

It is the policy of V anderbilt University School of Medicine that all medical students will take Step 1 and Step 2 (both Clinical Knowledge and Clinical Skills) of the United States Medical Licensing Examination prior to graduation, although passage of these examinations will not be a degree requirement.

Standards of Behavior for Interactions with Medical Students 1

Statement of Standards

In practice, physicians ar e held to high standar ds of pr ofessionalism and patient care. The medical learning envir onment is expected to facilitate students' acquisition of the professional and collegial attitudes necessary for effective, caring, and compassionate health care. The development and nurturing of these attitudes requires mutual respect between teachers (including faculty, residents, and staf f) and students, and between each student and his or her fellow students. ² Mutual respect between student and teacher, and between fellow students, may be expr essed in many ways but all interactions shall include honesty, fairness, and evenhanded treatment. Behavior which is inimical to the development of mutual r spect shall be prohibited. Such behavior may include but is not limited to:

(1) Harassment of a sexual nature;

(2) Discrimination or harassment based on race, sex, religion, color, national or ethnic origin, age, disability, military service, or being or being perceived as homosexual, heterosexual, or bisexual.

(3) Grading, promoting, or otherwise evaluating any student on any basis other than that student's performance or merit.

Comments

The following delineates more clearly the behavior enumerated above which may be inimical to the development of mutual espect between students and teacher and between fellow students. For purposes of these Comments, the term "person" shall r efer to a student in interactions be tween fellow students or, in student-teacher interactions, to the student or teacher, as appropriate.

(1) Harassment of a sexual nature may include:

a. Denying the opportunity for training or r ewards because of a student's gender;

Requesting sexual favors in exchange for grades or other awards;

¹ All Vanderbilt University policies concerning medical student interactions with faculty and staff as set forth in the Vanderbilt University Student Handbook, the Faculty Manual, and the Staff Manual remain in full force and effect.

² By their express terms, these Standards apply only to interactions which involve one or more medical students; however, it is hoped that these Standards will serve as a guide to all members of the Vanderbilt University Medical Center community. The reporting procedure outlined herein shall apply only to allegations of the violation of these Standards in interactions involving medical student(s).

c. Making unwanted sexual advances;

d. Unreasonable and inappr opriate sexual or sexist conduct dir ected towards any person;

e. Displaying in an unr easonable and inappr opriate manner sexually suggestive or pornographic materials; or

f. Grading or evaluating a student based upon gender rather than performance and merit.

(2) Discrimination and harassment may include:

a. Denying the opportunity for training or r ewards because of a student's age, race, religious affiliation, or any other attribute of the student other than merit or performance;

b. Unreasonable and inappropriate conduct directed towards any person which is intended to insult or stigmatize that person;

c. Exclusion of a student from any usual and reasonable expected educational opportunity for any reason other than as a reasonable response to that student's performance or merit;

d. Requiring a student to perform personal services such as shopping or babysitting;

e. Showing favoritism among students based upon any attribute of the student(s) other than performance or merit and ther eby reducing educational opportunities available to the nonfavored student(s); or

f. Grading or evaluating a student based upon any attribute of a stu - dent other than that student's performance and merit;

g. Any physical mistreatment, such as hitting, slapping or kicking, or threatening such physical mistreatment;

h. Requiring a student to perform menial tasks with the intent to humiliate the student.

Any perceived violation of these Standar ds of Behavior ("Standar ds") may be reported in accordance with the following procedure. Violations of these Standards may subject the of fender to disciplinary action. These Standards may be amended at any time by the Executive Faculty . The Standards Committee shall be composed of such members as the Dean shall appoint from time to time.

Reporting Procedure

Prior to filing a formal report as outlined below, the individual considering making a report should first, if at all possible, attempt to resolve the matter directly with the alleged of fender. In addition, the r eporting individual may consult informally with any member of the Standar ds Committee for information and assistance. Any such informal consultation will be confidential if so r equested. The only written r ecord of any such confidential consultation shall consist of a confidential memorandum r etained in the files of the Chair of the Standards Committee.

To make a formal r eport of an alleged violation of these Standar ds, a written description of the alleged violation, signed by the individual making the report, shall be delivered to any individual on the Standards Committee. The Standar ds Committee shall conduct a pr eliminary investigation, giving the r eporting individual, the alleged of fender and any other persons as the Standar ds Committee shall determine a fair op portunity to expr ess their views on the matter . Further, the Standar ds Committee shall make, in accor dance with commonly held standar ds of conduct, any necessary pr eliminary determination of what does or does not constitute reasonable or appropriate conduct and behavior. Thereafter, the Standards Committee shall issue a written statement of their pr eliminary findings to the individual making the report, to the alleged of fender, and to the Dean. The Dean shall then take such further action on the matter as the Dean shall deem appropriate, consistent with Vanderbilt University policy on disciplinary actions as set forth in the V and rbilt University Faculty Manual, Student Handbook, or Staff Manual, as applicable.

Alternatively, a student alleging sexual harassment or unlawful dis crimination may make a complaint to Vanderbilt's Opportunity Development Center in accor dance with the pr ocedure outlined in the *Student Handbook*. If the complaint to the Opportunity Development Center does not resolve the matter to the satisfaction of the individual making the complaint, a formal grievance may be filed with the Office of the Chancellor in accordance with the procedure in the *Student Handbook*.

Grading and Promotions

Successful completion of the courses of the medical curriculum and scholastic standing are determined by the character of the student's daily work; the results of examinations, which may be written, oral, or practical; and observation of the student in action. The medical school curriculum builds progressively on the course work of each previous academic year. The courses of each subsequent year require increasing levels of coordination and integration of the material previously presented. Thorough knowledge and understanding of each subject and an appropriate level of skills are therefore required for satisfactory progress to be maintained in the medical curriculum.

Grades

The summative evaluation of academic performance for each course is reported on the following basis:

Honors (H): superior or outstanding work in all aspects (second, third, and fourth years).

High Pass (HP): completely satisfactory performance in all aspects, with some elements of superior work (third and fourth years).

Pass (P): completely satisfactory performance in all aspects (all years).

Marginal Pass (P*): marginal performance, to be reviewed by the Promotion Committee and course directors. Not to be recorded on the official transcript. After discussion and/or remedy, the grade will be changed to either Pass or Fail.

Fail (F): unsatisfactory performance (all years).

Electives in the first and second year ar e graded on a Pass or Fail basis. Exemplary or inadequate performance in these electives will be documented by supporting narrative evaluations. Electives and selectives in the third and fourth years are graded on the same basis as required courses.

Student Grievances Concerning Grades

Students should seek redress of a problem with a grade as soon as possible after receiving the grade and in no case later than six months after the event. Students with a problem should confer directly with the course director. Every ef fort should be made to r esolve the pr oblem fairly and promptly at this level.

If the student cannot r esolve the problem through discussion with the course director, he or she should bring the pr oblem, within two weeks of talking with the course director, to the attention of the Associate Dean for Medical Students, who will seek to resolve the problem. If resolution is still not achieved, the Associate Dean will make a r ecommendation to the Dean, which will be accompanied by commentary on the recommendation by the relevant department chair. The Dean will make the final decision.

Promotion

Promotion Committees of the faculty, in consultation with r epresentatives of the departments r esponsible for instruction, are charged with making recommendations to the Dean, and the Executive Faculty regarding progress and promotions of students in each class. The Executive Faculty of the School of Medicine has final r esponsibility for the determination of medical student progress in the school. Decisions on the progress of students during the first two years are ordinarily made at the end of each academic year. In view of the integrated nature of the curriculum in the final two years, no specific decisions on pr omotion from the third to the fourth year ar e made. Decisions on the pr ogress of students during these final two years, however, may be made at any time as academic performance may dictate. Ordinarily, decisions for graduation will be made shortly before Commencement in the final year.

The committees r ecommend for pr omotion those students who have demonstrated appropriate personal behavior and the knowledge, under standing, and skills consistent with faculty expectations at their particular stage of professional development. The school's academic program is predicated upon providing students an academic envir onment conducive to successful achievement. Occa sionally, however, the outcome is unsuccessful. The Pr omotion Committees will review the performance of students with deficiencies and make recommendations concerning their progress.

Students who have marginal grades in two or more courses in a single academic year will under go special review by their Pr omotion Committee. In light of the student's complete academic r ecord, the committee may recommend promotion, promotion on probation, repetition of all or part of the academic year , or withdrawal fr om school. Or dinarily, a student with marginal performances in required preclinical courses accounting for more than half of the scheduled r equired course hours in a single academic year can expect to repeat an academic year or to withdraw from school. Students who deliver marginal performances in more than two required clerkships can expect to have their pr ogress delayed in or der to complete remedial work or to withdraw from school.

Students who fail in a course, whether r equired or elective, will be r equired to remedy the failure before being permitted to enter the courses of the next academic year. Credit may be given on the basis of r e-examination or satisfactory repetition of the course work, but failures will remain on the record and may be counted as cause for dismissal if additional failure occurs. Students who fail in two courses or fail a r e-examination or course repetition may be required to withdraw from the school.

Promotion Committees will or dinarily recommend that students be placed on academic probation if their course work includes any failures or is generally of marginal character. Students placed on academic probation who do not perform in a satisfactory manner during the subsequent academic year will be dismissed fr om school unless ther e are mitigating circumstances appr oved by the Dean. Students on pr obation may be withdrawn from school if their academic performance continues at a marginal level, even though ther e may be no recorded failures. Promotion Committees may recommend removal of probationary status when a student has demonstrated a continuing record of satisfactory performance in the succeeding units of study.

Students who are shown by work or conduct to be unfit for the practice of medicine may be required to withdraw from the school at any time.

Extracurricular Work

The School of Medicine does not r egulate the outside work of its students, although it does take the firm position of discouraging outside work. No outside commitments may be assumed by medical students that may compromise their r esponsibilities at the medical school. If the outside obligation is considered prejudicial, the student may be r equired to discontinue it.

Leave of Absence

A leave of absence may be granted by the Associate Dean for Medical Students for a period not to exceed one year for purposes of appr oved studies, recuperation from illness, or other special cir cumstances. Should it be necessary for a student to be absent for a period of moe than one calendar year, the student must make formal reapplication and be reconsidered by the Admissions Committee, unless special appr oval is given by the Associate Dean for Medical Students for a more extended leave.

Commencement

The University holds its annual Commencement ceremony following the spring semester. Degree candidates must have completed successfully all curriculum requirements and have passed all pr escribed examinations by the published deadlines to be allowed to participate in the ceremony. A student completing degree requirements in the summer or fall semester will be invited to participate in Commencement the following May; however , the semester in which the degree was actually earned will be the one r ecorded on the diploma and the student's permanent record. Students unable to participate in the graduation ceremony will receive their diplomas by mail.



Chairs, Professorships, and Lectureships

Chairs and Professorships

RUTH AND R. BENTON ADKINS JR. CHAIR IN SURGERY. This chair will reflect the lifelong commitment to surgical excellence as exemplified by longtime faculty member R. Benton Adkins. Dr. Adkins, a professor of surgery and of cell biology, joined the Vanderbilt faculty in 1964. He is a member of the Vanderbilt School of Medicine Class of 1958.

BEN J. ALPER CHAIR IN RHEUMATOLOGY. Dr. Alper, a 1949 graduate of Vanderbilt University School of Medicine, and his wife, Phyllis, provided for the establishment of this chair in 1995. The chair will support research and clinical care in rheumatology.

THEODORE R. AUSTIN CHAIR IN PATHOLOGY. This chair was established in memory of Dr. Austin, a pathologist who practiced in Alexandria, Virginia. He was an alumnus of Vanderbilt Medical School. The chair was established by his wife, Mrs. Dorothy B. Austin.

OSWALD T. AVERY PROFESSORSHIP IN MICROBIOLOGY AND IMMUNOLOGY. Established in 1989, this professorship honors Dr. Oswald T. Avery, a Nashvillian and faculty member of the Vanderbilt University School of Medicine who was a leader in understanding of the composition and significance of DNA.

JACK AND BETTY BAILEY PROFESSORSHIP IN CARDIOLOGY. Through the generosity of Betty and Jack Bailey, this gift was made in support of a professorship in the Division of Cardiology as a tribute to a distinguished physician, Dr. F. T. Billings, Jr.

ALLAN D. BASS CHAIR IN PHARMACOLOGY. Funded in large part by a gift from an anonymous donor, this chair supports scientific development in pharmacology. Allan D. Bass, chairman of the Department of Pharmacology from 1953 to 1972, was instrumental in establishing pharmacology as an independent research discipline.

MELINDA OWEN BASS CHAIR IN MEDICINE. In 2002, it was agreed that monies from the Owen Fund for Pulmonary Research would be used to establish this chair in honor of Mrs. Bass and her family's many contributions to medical research at Vanderbilt.

CHARLES H. BEST PROFESSORSHIP IN DIABETES RESEARCH. This professorship is named for Dr. Charles H. Best, who was involved in the isolation of insulin and its initial use in the treatment of diabetes.

F. TREMAINE BILLINGS PROFESSORSHIP IN MEDICINE AND PHARMACOLOGY. This professorship recognizes the many and varied accomplishments and contributions from F. Tremaine "Josh" Billings, M.D., who joined the Vanderbilt faculty in 1941 and presently serves as professor of medicine, emeritus.

JAMES G. BLAKEMORE CHAIR IN PSYCHIATRY. Through the generosity of James G. Blakemore, Nashville businessman and Vanderbilt alumnus, this professorship in psychiatry was endowed in 1973 to support a distinguished faculty member in the Department of Psychiatry, providing freedom to contribute to research and teaching within a specific field of excellence.

WILLIAM L. BRAY CHAIR IN UROLOGIC SURGERY. Established in 1992 by a bequest from James L. Bray, M.D. '31, a physician in Los Angeles, this chair supports the research of a distinguished faculty member in urologic surgery. The chair honors Bray's father.

ROBERT AND RACHEL BUCHANAN / A. H. AND LUCILLE LANCASTER CHAIR IN DER-MATOLOGY. Dr. and Mrs. Robert Buchanan and Mrs. A. H. Lancaster provided for the creation of this chair in 1994. The chair honors two of Tennessee's first dermatologists, both of whom graduated from the Vanderbilt University School of Medicine, and will support a faculty member in the Division of Dermatology.

FRANCES AND JOHN C. BURCH CHAIR IN OBSTETRICS AND GYNECOLOGY. This chair was endowed in 1995 through the generosity of the Burch family and other friends and colleagues. John C. Burch, M.D. '23, was chairman of the Department of Obstetrics and Gynecology and son of former Vanderbilt School of Medicine Dean Lucius E. Burch.

LUCIUS E. BURCH CHAIR IN REPRODUCTIVE PHYSIOLOGY AND FAMILY PLANNING. In 1967, the Department of Obstetrics and Gynecology received funds from an anonymous donor to establish this professorship, the purpose of which is to further research in basic reproductive biology and applied family planning. The chair is named for Dr. Lucius E. Burch, dean of the School of Medicine from 1913 until 1920, and chairman of the Department of Obstetrics and Gynecology until his retirement in 1945.

BETTY AND LONNIE S. BURNETT CHAIR IN OBSTETRICS AND GYNECOLOGY. Established in 1997, this chair honors Mrs. Burnett and her husband, a member of the Vanderbilt faculty since 1976 and chair of Obstetrics and Gynecology until 1995. Dr. Burnett has made numerous contributions in the field of gynecological oncology.

MARTHA O. AND DIXON N. BURNS CHAIR IN MEDICAL ETHICS. This chair was established in 1998 in memory of Mrs. Burns and in honor of Dr. Burns. It will provide support for the burgeoning specialty of medical ethics, an area of particular interest to Dr. Burns, a member of the Vanderbilt School of Medicine Class of 1945.

C. SIDNEY BURWELL PROFESSORSHIP IN MEDICINE. This professorship honors the memory of C. Sidney Burwell, chairman of the Department of Medicine from 1928 to 1935.

BENJAMIN F. BYRD JR. CHAIR IN CLINICAL ONCOLOGY. Family, friends, and patients established in 1992 an endowed chair that honors Nashville surgeon and former president of the American Cancer Society, Benjamin F. Byrd, Jr., M.D.

ANN AND MONROE CARELL FAMILY CHAIR IN PEDIATRIC CARDIOLOGY. This chair was established in 1991 through the generosity of Board of Trust member Monroe Carell, Jr., and his wife Ann. The chair is held by the head of the Division of Pediatric Cardiology.

CHANCELLOR'S CHAIR IN MEDICINE. This chair is committed to ensuring the ongoing mission within the Department of Medicine of treatment of those challenged by addictions.

STANLEY COHEN PROFESSORSHIP IN BIOCHEMISTRY. This professorship is named for Dr. Stanley Cohen, professor of biochemistry, recipient of the Nobel Prize for Physiology or Medicine in 1986 for his efforts in the discovery of growth factor.

MARK COLLIE CHAIR IN DIABETES. Country singer and songwriter Mark Collie, through the Mark Collie Foundation, endowed this chair in 2001 to directly support research in the field of diabetes.

CORNELIUS ABERNATHY CRAIG CHAIR IN MEDICAL AND SURGICAL ONCOLOGY. Established by the late Kathryn Craig Henry, this chair supports cancer research and serves as a memorial to her father, who was a Nashville businessman and member of the Vanderbilt University Board of Trust. CRAIG-WEAVER CHAIR IN PEDIATRICS. Established through the generosity of Elizabeth Proctor, this chair enhances research and teaching programs of Children's Hospital and provides high quality specialty care for children. The chair honors Mrs. Proctor's parents, the late Mr. and Mrs. Edwin Wilson Craig, and her late husband, William C. Weaver, Jr.

JOE C. DAVIS CHAIR IN BIOMEDICAL SCIENCE. This chair was established in 1994 with the proceeds from a trust created by the estate of Mr. Davis, a Vanderbilt alumnus and trustee.

GERALD M. FENICHEL CHAIR IN NEUROLOGY. Established in 1999, this chair provides an opportunity for Dr. Fenichel's many friends, colleagues, students, and patients to honor his lengthy and accomplished career. The first chairman of Vanderbilt's Department of Neurology, Dr. Fenichel spent three decades in that position.

JOHN CLINTON FOSHEE DISTINGUISHED CHAIR IN SURGERY. Through the generosity of the late Dr. John C. Foshee, a 1916 graduate of Vanderbilt University School of Medicine and distinguished surgeon, this professorship was endowed in 1976 for the purpose of furthering medical education and research in the field of general surgery.

ROSALIND E. FRANKLIN PROFESSORSHIP IN GENETICS AND HEALTH POLICY. This professorship, dedicated to furthering advances in genetics and corresponding progress in health policy, is named in recognition of the accomplishments of the late Rosalind E. Franklin, a British chemist and molecular biologist who was a pioneer in the early mapping of DNA using x-ray crystallography.

DR. THOMAS F. FRIST JR. CHAIR IN MEDICINE. This chair was established in 1985 to support and recognize a distinguished leader-physician-scholar of national stature who combines the qualities of an eminent physician and experienced medical scholar. When possible, the occupant of the chair will be the chair of the Department of Medicine.

ERNEST W. GOODPASTURE CHAIR IN EXPERIMENTAL PATHOLOGY. In recognition of Ernest W. Goodpasture, this chair was established in 1960 to enhance basic investigative efforts in experimental pathology.

DOROTHY AND LAURENCE A. GROSSMAN CHAIR IN CARDIOLOGY. This chair exemplifies the leadership and moral fibre of noted Nashville internist Laurence A. Grossman, M.D., and his overriding commitment to strengthening the field of cardiology. Dr. Grossman is a member of the Vanderbilt School of Medicine Class of 1941.

JAMES TAYLOE GWATHMEY CLINICIAN SCIENTIST PROFESSORSHIP. Created in response to a growing need to cultivate clinician scientists in the medical education environment, this professorship recognizes the efforts of Dr. Gwathmey, a pioneer anesthetist who developed the first apparatus able to equally administer ether, oxygen, and nitrous oxide. Dr. Gwathmey was an 1893 graduate of the dual program between Vanderbilt's School of Medicine and its predecessor, the University of Nashville Medical School.

CATHERINE MCLAUGHLIN HAKIM CHAIR IN MEDICINE. This chair, established in 1999 in memory of Catherine McLaughlin Hakim, supports research and clinical care in the field of vascular biology.

GEORGE HALE PROFESSORSHIP OF OPHTHALMOLOGY. Through the generosity of Virginia McHenry Hale, this professorship was established in 1960 for the advancement of ophthalmology. The chair honors Hale's late husband.

PAUL V. HAMILTON, M.D., CHAIR IN GERIATRICS. This chair came into effect in 1998, created from the estate of Dr. Paul V. Hamilton, a longtime and much-beloved general practitioner in Cincinnati, Ohio, and a member of the Vanderbilt School of Medicine Class of 1929. PAUL V. HAMILTON, M.D., AND VIRGINIA E. HOWD CHAIR IN UROLOGIC ONCOLOGY. Established in 1998 by a bequest from Dr. Hamilton and a gift from Hamilton's longtime friend, Virginia Howd, this chair promotes crucial research in the field of genitourinary cancer.

ELSA S. HANIGAN CHAIR IN PULMONARY MEDICINE. Mr. John L. Hanigan endowed this chair in memory of his wife. The chair strengthens the ability to treat and care for patients with respiratory diseases and offers a unique opportunity to develop innovative programs in pulmonary research, education, and rehabilitation.

JOEL G. HARDMAN CHAIR IN PHARMACOLOGY. Named in honor of noted researcher Joel G. Hardman, Ph.D., chair of the Department of Pharmacology form 1975 to 1990 and Associate Vice Chancellor for Health Affairs from 1990 to 1997. This chair supports investigational opportunities in pharmacology.

INGRAM CANCER RESEARCH PROFESSORSHIPS. Established in 1999 from part of a multimillion-dollar gift given by the family of the late E. Bronson Ingram, these ten faculty positions support research in such areas as functional genomics, signal transduction, cancer prevention, clinical trials, and experimental therapeutics. Ingram, a Nashville businessman and chairman of Vanderbilt's Board of Trust, died of cancer in 1995.

HORTENSE B. INGRAM CHAIR IN MOLECULAR ONCOLOGY. This chair, established in 1991 by president and CEO of Ingram Industries, Inc., E. Bronson Ingram, provides continued support for cancer research in the Department of Cell Biology. The chair honors Mr. Ingram's mother, the late Hortense Bigelow Ingram, a Nashville civic and charity leader.

LISA M. JACOBSON CHAIR IN CARDIOVASCULAR MEDICINE. This endowed chair in the Department of Medicine was established through the generosity of Dr. and Mrs. Harry Jacobson and honors Dr. Jacobson's mother, who suffered from coronary artery disease.

RUDY W. JACOBSON CHAIR IN PULMONARY MEDICINE. Dr. and Mrs. Harry Jacobson generously established this endowed chair in the Department of Medicine. The chair was funded to help improve the treatment of pulmonary disease and honors Dr. Jacobson's father, who suffered from idiopathic pulmonary fibrosis.

RUDOLPH H. KAMPMEIER PROFESSORSHIP IN MEDICINE. Dr. Rudolph H. "Rudy" Kampmeier (1898–1990) was a highly respected clinical teacher in the broad Oslerian tradition. He joined the Vanderbilt faculty in 1936, chaired the Department of Medicine from 1943 to 1946 and again in 1958-59, and was elected president of the American College of Physicians in 1967. This professorship is named in recognition of his stature as a clinician, teacher, historian, and author.

DAVID T. KARZON CHAIR IN PEDIATRICS. This chair was established in 1991 to recognize an outstanding researcher, teacher, leader, and care giver, David T. Karzon, M.D. The chair provides support for pediatric science in any subspecialty area.

GRANT W. LIDDLE PROFESSORSHIP IN MEDICINE. This professorship honors the memory of Dr. Grant W. Liddle, chair of the Department of Medicine from 1968 to 1983. An internationally known endocrinologist and clinical investigator, Dr. Liddle was a firm believer in the importance of training in the fundamental disciplines.

ANN LIGHT CHAIR IN CARDIOVASCULAR PULMONARY MEDICINE. Through the generosity of Ann R. Light (Mrs. Rudolph A. Light), the School of Medicine will benefit from a charitable trust to establish a chair in pulmonary medicine.

GUY M. MANESS CHAIR IN OTOLARYNGOLOGY. This chair was created in 1986 through the generosity of Dr. Maness, longtime friend of Vanderbilt Otolaryngology. The chair supports a comprehensive program of education, research, and treatment of diseases of the ears, nose, throat, head, and neck at Vanderbilt. KATRINA OVERALL MCDONALD CHAIR IN PEDIATRICS. In 2002, it was agreed that monies from the James C. Overall Chair in Pediatrics would be used to establish this chair in memory of Mrs. McDonald and her family's many contributions to pediatric research and patient care at Vanderbilt

WILLIAM F. MEACHAM CHAIR IN NEUROLOGICAL SURGERY. Funding of this chair was spearheaded by the William F. Meacham Society, a group composed primarily of house officers who studied under Meacham, M.D.'40, chairman of the Department of Neurosurgery from 1954 to 1984. The chair supports research in neurological surgery and honors Meacham's contributions to this field.

STANFORD MOORE CHAIR IN BIOCHEMISTRY. Established in 1991 by an anonymous donor, this chair recognizes and encourages significant research in biochemistry and memorializes Dr. Stanford Moore, a former member of the Board of Trust and a Nobel Prize winner.

HUGH J. MORGAN CHAIR IN MEDICINE. The Morgan chair recognizes the many contributions of the distinguished former chairman of Vanderbilt's Department of Medicine. Members of his family, physicians who trained under him, patients, and friends contributed to the chair's endowment.

ELIZABETH AND JOHN MURRAY CHAIR OF THE ASTHMA, ALLERGY, AND SINUS PRO-GRAM. This chair was established in direct support of the clinical and research pursuits within Vanderbilt's Asthma, Allergy, and Sinus Program (ASAP). Dr. Murray is a member of the Vanderbilt School of Medicine Class of 1979.

JAMES C. OVERALL CHAIR IN PEDIATRICS. Through the generosity of Mr. and Mrs. William K. Warren of Tulsa, Oklahoma, this chair was endowed in 1981 to enhance the academic program in the Department of Pediatrics. The professorship honors Mrs. Warren's brother, Dr. James C. Overall, a distinguished clinician and contributor to American pediatrics.

RALPH AND LULU OWEN CHAIR IN MEDICINE. In 2002, it was agreed that monies from the Owen Fund for Pulmonary Research would be used to establish this chair in memory of Mr. and Mrs. Owen's many contributions to medical research at Vanderbilt.

CAROL D. AND HENRY P. PENDERGRASS CHAIR IN RADIOLOGY. Established by family and friends in 1997, the Carol D. and Henry P. Pendergrass Chair is the first endowed chair in the Department of Radiology and Radiological Sciences. The chair honors Dr. Pendergrass, a gifted professor of radiology and radiological sciences who served Vanderbilt and his profession with distinction, and his late wife, Carol. His research in the early diagnosis and detection of disease through medical imaging, along with his involvement in post-graduate and continuing medical education, helped establish the Department of Radiology and Radiological Sciences at Vanderbilt as one of the nation's leading centers for radiological research, education, and patient care.

ANN AND ROSCOE R. ROBINSON CHAIR IN NEPHROLOGY. Friends of Dr. and Mrs. Robinson endowed this chair in 1995. Dr. Robinson served as Vanderbilt's Vice Chancellor for Health Affairs from 1981 until 1997 and was internationally recognized as a nephrologist.

DAVID E. ROGERS PROFESSORSHIP IN MEDICINE. This professorship honors the memory of Dr. Rogers, a great clinician, educator, and public policy maker, who chaired Vanderbilt's Department of Medicine from 1959 to 1968.

PAUL W. SANGER CHAIR FOR EXPERIMENTAL SURGERY. Through the generosity of the late Paul W. Sanger, M.D. '31, a distinguished surgeon and former president of the Vanderbilt Medical Alumni, this professorship was established in 1969 and funded in collaboration with the Department of Surgery for the purpose of furthering research in surgical biology and in the general field of surgery.

JOHN L. SAWYERS CHAIR IN SURGICAL SCIENCES. This chair honors John L. Sawyers, M.D., professor of surgery, emeritus, former chairman of the Department of Surgery, and former director of the Section of Surgical Sciences, for his contribution to medicine and his dedication to training surgeons.

H. WILLIAM SCOTT JR. CHAIR IN SURGERY. Through the generosity of members of the H. William Scott, Jr., Society, consisting primarily of residents trained by Dr. Scott, this professorship was established in 1983 to honor Dr. Scott for his contributions to the Section of Surgical Sciences and Vanderbilt University during his thirty-year tenure as chairman, 1952–82.

ADDISON B. SCOVILLE JR. CHAIR IN MEDICINE. This chair was endowed in 1985 by the Justin and Valere Potter Foundation to support and recognize a distinguished physician scholar whose accomplishments in investigative medicine will enrich and strengthen the scientific endeavors of the Department of Medicine.

RUTH KING SCOVILLE CHAIR IN MOLECULAR PHYSIOLOGY AND BIOPHYSICS. This chair is named for the widow of long-time Vanderbilt University School of Medicine faculty member Dr. Addison B. Scoville, Jr. The position is intended to support distinguished faculty recruitment to the Division of Diabetes, Endocrinology, and Metabolism.

JOHN L. SHAPIRO CHAIR IN PATHOLOGY. Funded by family, friends, former house officers, and alumni, the chair honors the late John L. Shapiro, M.D., a faculty member from 1948 to 1971 and chairman of the Department of Pathology from 1956 until his retirement. During that time, Shapiro instructed more than 1,000 medical students and was considered to be the most effective teacher at Vanderbilt School of Medicine. The holder of this chair promotes medical student involvement in research or clinical-pathological projects, graduate student recruitment, and young faculty development.

ANN GEDDES STAHLMAN CHAIR IN MEDICAL ETHICS. This chair was endowed in 1973 by James C. Stahlman, B.A. '19. The broad objective of the chair is to contribute to the return of humanism in the practice of medicine. Stahlman was owner and publisher of the *Nashville Banner* and a long-time member of the Vanderbilt University Board of Trust. This chair honors one of his daughters.

EDWARD CLAIBORNE STAHLMAN CHAIR IN PEDIATRIC PHYSIOLOGY AND CELL ME-TABOLISM. Endowed in 1972 by James C. Stahlman in honor of his father, this chair supports studies in pediatric physiology and cell metabolism.

GLADYS PARKINSON STAHLMAN CHAIR IN CARDIOVASCULAR RESEARCH. Established in 1973 by James C. Stahlman in honor of his wife, this chair supports cardiovascular research, with emphasis on the cause of the disease, its prevention, and its treatment.

MARY GEDDES STAHLMAN CHAIR IN CANCER RESEARCH. James C. Stahlman, endowed this professorship in 1972 for the purpose of furthering studies in cancer research. The chair honors his mother.

MILDRED THORNTON STAHLMAN CHAIR IN PERINATOLOGY. James C. Stahlman established this professorship in perinatology. The chair will reinforce the study of perinatology over an indefinite period of time. It is named in honor of Dr. Mildred Stahlman, one of Mr. Stahlman's daughters and a member of the School of Medicine faculty since 1951.

WILLIAM STOKES CHAIR IN EXPERIMENTAL THERAPEUTICS. Established in 1989, through the generosity of the Daiichi Seiyaku Company of Japan, this chair honors William

Stokes. Stokes was a 19th-century Dublin physician who made many contributions to cardiovascular medicine. The chair resides in clinical pharmacology.

WILLIAM S. STONEY JR. CHAIR IN THORACIC AND CARDIAC SURGERY. The chair honors William S. Stoney, Jr., M.D.'54, a clinical professor in the department from 1969 to 1988, for his many contributions to thoracic and cardiac surgery and especially the surgical treatment of adult heart disease.

EARL W. SUTHERLAND JR. PROFESSORSHIP IN PHARMACOLOGY. This professorship recognizes the myriad of accomplishments by Dr. Sutherland, a 1971 Nobel Laureate for his discovery of the metabolic regulating compound "cyclic AMP," and a professor of physiology at Vanderbilt from 1963 until 1973.

MINA COBB WALLACE CHAIR IN GASTROENTEROLOGY AND CANCER PREVENTION. This chair was endowed in 1998 by John B. Wallace, a prominent physician from Gallatin, Tennessee, in memory of his mother, Mina Cobb Wallace. It promotes research in gastroenterology with specific application to the field of cancer prevention.

NATALIE OVERALL WARREN CHAIR IN BIOCHEMISTRY. This chair was endowed by the William K. Warren Foundation in 1995. Mr. Warren's wife, Natalie Overall Warren, was an honors graduate of the class of 1920 with a major in chemistry and one of eight members of her family to graduate from Vanderbilt University.

WILLIAM C. WEAVER III CHAIR IN NEUROLOGY. Mrs. David Y. Proctor, whose generous support is evident throughout the Medical Center, endowed this chair in 1992 in honor of her son, William C. Weaver III, in support of research and service in neurodegenerative diseases and multiple sclerosis.

WILLIAM O. AND DOROTHY OVERALL WELLS CHAIR IN PEDIATRICS. In 2002, it was agreed that monies from the James C. Overall Chair in Pediatrics would be used to establish this chair in honor of Mrs. Wells and her family's many contributions to pediatric research and patient care at Vanderbilt.

ALBERT AND BERNARD WERTHAN CHAIR IN INVESTIGATIVE MEDICINE. The Werthan and Shayne families of Nashville made possible the establishment of this chair in 2000. Longtime benefactors of the School of Medicine, they established the Werthan Professorship in Investigative Medicine, forerunner of this endowed chair, in 1951.

LESTER AND SARA JAYNE WILLIAMS CHAIR IN ACADEMIC SURGERY. Created under a bequest provision by Dr. and Mrs. Williams, this chair will benefit the academic program in the Section of Surgical Sciences. It was their wish that this chair serve to return some measure of what they consider a professional and highly collegial atmosphere among Vanderbilt surgeons and support staff.

ANNE POTTER WILSON DISTINGUISHED CHAIR IN COLON CANCER. This chair was established by Nashville businessman and Vanderbilt Board of Trust member David K. "Pat" Wilson in memory of Anne Potter Wilson.

ELTON YATES PROFESSORSHIP IN AUTONOMIC DISORDERS. Mrs. Elton Yates and the late Mr. Yates, a former oil company executive, endowed this professorship in 1997 in support of research into various autonomic disorders within the Clinical Research Center.

Lectureships

THE JOHN Q. ADAMS LECTURESHIP IN OTOLARYNGOLOGY. Through the generosity of the Adams family this annual lecture furthers education in otolaryngology.

THE ALPHA OMEGA ALPHA LECTURE. The Alpha Omega Alpha Medical Honor Society each year invites a scientist of prominence to deliver a lecture before the students and faculty and members of the medical community. The first lecture was given during the school year 1926/27.

THE ALLAN D. BASS LECTURESHIP. This lectureship was established in 1976 in recognition of Dr. Bass's outstanding contributions to Vanderbilt University, the Nashville community, and the field of Pharmacology. He served as a professor and chairman of the Department of Pharmacology from 1953 to 1973, as associate dean for biomedical sciences from 1973 to 1975, and as acting dean of the School of Medicine from 1973 to 1974. The lectureship is made possible through the generosity of his associates and colleagues in the American Society of Pharmacology and Experimental Therapeutics; the FASEB; the AMA Council on Drugs; the Nashville Academy of Medicine; the present and former staff, students, and faculty members at Vanderbilt University; and the Department of Pharmacology. The first lecture was given in April 1977.

THE ROBERT N. BUCHANAN JR. VISITING PROFESSORSHIP IN DERMATOLOGY. The Department of Medicine established in 1980 a visiting professorship to honor Dr. R. N. Buchanan, Jr., professor emeritus and former chairman of the Division of Dermatology. Each year, a distinguished dermatologist is invited to come to Vanderbilt to deliver a series of formal lectures and participate in teaching conferences.

THE BARNEY BROOKS MEMORIAL LECTURESHIP IN SURGERY. In 1952, through the generosity of a Vanderbilt alumnus, an annual lectureship was established to honor the memory of Dr. Barney Brooks, formerly professor of surgery and head of the department, and surgeon-in-chief of Vanderbilt University Hospital. As a fitting memorial to Dr. Brooks, these lectures have been given by physicians who have made distinguished contributions in clinical or investigative surgery. It is held annually in conjunction with the spring meeting of the H. William Scott Society.

THE GEORGE DANIEL BROOKS LECTURESHIP IN ONCOLOGY. Established and endowed in 1991 by Frances Brooks Corzine in honor of her father, G. Daniel Brooks, who died of cancer. The focus of the lectureship is oncology and rotates between clinical and basic cancer distinguished lecturers.

THE JOHN E. CHAPMAN LECTURESHIP IN THE ECOLOGY OF MEDICINE AND MEDICAL EDUCATION. Established by Richard E. Strain, M.D. '75, in memory of his father, Richard E. Strain, Sr., M.D. '35, and honoring Dr. John E. Chapman, former Dean of Vanderbilt University School of Medicine. The annual lecture will be devoted to subjects that address the changing role of medicine in our culture.

THE CULLY COBB LECTURESHIP IN NEUROLOGICAL SURGERY. This fund is used exclusively to cover expenses for speakers at the regular meetings of the Meacham Society. Dr. Meacham (M.D. '40) was chairman of the Department of Neurosurgery from 1954 to 1984. Dr. Cobb is a clinical professor of neurological surgery.

THE W. ANDREW DALE MEMORIAL LECTURESHIP. Established by the Dale family and friends, this first lecture in vascular surgery supports the advancement of vascular education, research, and patient care. The lecture reflects the depth of Dr. Dale's commitment to Vanderbilt Medical School and vascular surgery.

THE ROLLIN A. DANIEL JR. LECTURE IN THORACIC SURGERY. In 1977, the Department of Thoracic and Cardiac Surgery established the Rollin A. Daniel Jr. Lecture as a tribute to Dr. Daniel. Since Dr. Daniel's death, there has been generous support from Dr. Daniel's family and many former residents to this lectureship fund. Each year a distinguished thoracic surgeon is invited by the Department to visit Vanderbilt and deliver the annual lecture, usually in the fall.

THE LEONARD W. EDWARDS MEMORIAL LECTURESHIP IN SURGERY. This annual lectureship was established in 1972 by the family and friends of Dr. Leonard Edwards, who was a professor of clinical surgery, in recognition of his more than fifty years of contributions to Vanderbilt and the Nashville community as a distinguished surgeon and teacher. The first lecture was given in 1972 by Dr. Lester Dragstedt. Lectures usually concentrate on surgery and physiopathology of the alimentary tract.

THE PHILIP W. FELTS LECTURE SERIES IN THE HUMANITIES. This lecture series was established to honor Dr. Felts's dedication to medical students and his desire to help them develop as individuals as well as physicians. Funding in his memory comes primarily from former students and his own Vanderbilt classmates and friends as well as Vanderbilt faculty members. It allows medical students to invite a nationally recognized figure in the humanities to speak at the School of Medicine each year as part of the annual student-run humanities series. He was director of alumni affairs when he died in 1992.

THE ABRAHAM FLEXNER LECTURESHIP. In the fall of 1927, Mr. Bernard Flexner of New York City donated \$50,000 to Vanderbilt University to establish the Abraham Flexner Lectureship in the School of Medicine. This lectureship is awarded every two years to a scientist of outstanding attainments who shall spend as much as two months in residence in association with a department of the School of Medicine. The first series of lectures was given in the fall of 1928.

THE LEROY BRUNSON GEORGE JR. LECTURESHIP IN TRANSPLANTATION. This lecture was provided by his mother, in tribute to his brave spirit in facing unprecedented heart surgery in 1956, which resulted in his death.

THE ALVIN F. GOLDFARB LECTURESHIP IN REPRODUCTIVE ENDOCRINOLOGY. Established by the children of Dr. Goldfarb to honor their father, an alumnus of Vanderbilt University School of Medicine, this is the first named lectureship in the Center for Fertility and Reproductive Research. Serving as an important forum for continuing education, the lectureship enables the Vanderbilt medical community to learn from those at the cutting edge of research and practice in reproductive biology.

THE THOMAS P. GRAHAM, JR. LECTURE IN PEDIATRICS. The Department of Pediatrics and the Division of Pediatric Cardiology established this lecture to recognize Dr. Graham as a renowned clinician and teacher.

THE ERNEST W. GOODPASTURE LECTURE. In 1968 the Goodpasture Lecture was established by a friend of Vanderbilt University and of the Department of Pathology, Mrs. George M. Green, Jr. The lecture is to honor the memory of Dr. Ernest William Goodpasture, distinguished chairman of the Department of Pathology from 1925 until his retirement in 1955. Each year, a lecturer prominent for achievements in research or in medical education is selected. The first lecture was given in the fall of 1971.

THE J. LYNWOOD HERRINGTON LECTURESHIP IN GENERAL SURGERY. St. Thomas Hospital administers this fund for the exclusive use of surgical grand rounds, speakers, and lectures. It is in honor of Dr. Herrington, clinical professor of surgery, emeritus.

THE J. WILLIAM HILLMAN VISITING PROFESSORSHIP. This professorship was established in 1976 as a tribute to the late Dr. J. William Hillman, who served as professor and chairman of the Department of Orthopaedics. To commemorate Dr. Hillman's tireless dedication to the art of teaching, the department annually invites a prominent orthopaedist to spend three or four days in residence teaching the house staff through a series of walking rounds and informal talks, concluding with a day-long seminar on special topics in the field.

THE GEORGE W. HOLCOMB LECTURESHIP. This lectureship was established in 1990 in tribute to George Whitfield Holcomb, M.D., clinical professor of pediatric surgery, emeritus,

for his many contributions as a pediatric surgeon and teacher from 1952 to 1989. The lectureship will keep pediatric surgeons at Vanderbilt abreast of new clinical procedures and research discoveries in the field of pediatrics by inviting guest lecturers from all over the country to give presentations.

THE MARC H. HOLLENDER LECTURESHIIP IN PSYCHIATRY. This fund is used by the Department of Psychiatry for an annual lecture honoring the memory of its former chairman, Dr. Marc H. Hollender.

THE BOEHRINGER INGELHEIM DISTINGUISHED LECTURESHIP IN BIOMEDICAL SCI-ENCES. This lectureship was established by the Boehringer Ingelheim Pharmaceutical Company in 1992 as an annual lecture. The lectureship was given in tribute to the strength of basic biomedical sciences at Vanderbilt University Medical Center. The focus of two lectures given by the distinguished lecturer is on a fundamental research area of broad and dramatic impact on the biomedical sciences.

THE EVERETTE JAMES JR. LECTURESHIP IN RADIOLOGY AND RADIOLOGICAL SCI-ENCES. Established by friends and colleagues of Dr. James, former chairman of the Department of Radiology and Radiological Sciences, this lectureship brings internationally known experts in a variety of areas of diagnostic radiology to Vanderbilt annually.

THE CONRAD JULIAN MEMORIAL LECTURE. This lecture was instituted in 1980 in honor of Dr. Conrad G. Julian, the first director of gynecologic oncology at Vanderbilt University Hospital. The lecture is delivered each year on a subject related to gynecologic oncology and is given in conjunction with the annual Gynecologic Oncology Seminar.

THE PAULINE M. KING MEMORIAL LECTURESHIP. This lectureship was established in 1962 by Mr. Robert F. King of Klamath River, California, as a memorial to his wife. Each year, a distinguished thoracic or cardiovascular surgeon is invited to lecture by the Department of Surgery. The first Pauline M. King Memorial Lecture was given in the spring of 1963.

THE LEONARD J. KOENIG LECTURESHIP IN MEDICINE. This fund, established in 1977 and named for longtime Nashville pediatrician Dr. Leonard Koenig, is for lectures and seminars within the Department of Medicine.

THE M. GLENN KOENIG VISITING PROFESSORSHIP IN INFECTIOUS DISEASES. This visiting professorship was established in 1973 through the generosity of alumni, faculty, friends, and the family of the late Dr. M. Glenn Koenig who served as a professor of medicine and head of the Division of Infectious Diseases. In recognition of Dr. Koenig's unexcelled ability to teach at the bedside, the Department of Medicine invites physicians of unusual competence in the teaching of clinical infectious diseases to join the Division of Infectious Diseases for short periods to spend time on the wards and in discussions with students, house staff, fellows, and faculty. The first visiting professorship was held in 1973.

THE KROC FOUNDATION LECTURESHIP IN MOLECULAR PHYSIOLOGY AND BIO-PHYSICS. Established in 1986 by the Kroc Foundation in honor of Ray A. Kroc and Robert L. Kroc to support several visiting professors each year. These individuals present a stateof-the-art lecture on diabetes, insulin action, or a related endocrine topic and consult with faculty members and their groups.

THE PAUL DUDLEY LAMSON MEMORIAL LECTURE. This lectureship was instituted in 1965 in memory of Dr. Lamson, professor of pharmacology and chairman of the department from 1925 until his retirement in 1952. A prominent scientist is brought to the campus biennially under the sponsorship of the alumni and staff of the Department of Pharmacology.

THE FRANK H. AND MILBREY LUTON LECTURESHIP. Established in 1976 through the generosity of friends and former students, this lectureship honors Dr. Frank H. Luton, the

first psychiatrist on the Vanderbilt faculty. Each year, a prominent lecturer in the field of psychiatry is selected.

THE MARTHA E. LYNCH LECTURESHIP. The Martha E. Lynch Lectureship is an annual series of lectures presented by the Vanderbilt Bill Wilkerson Center and is designed to provide continuing education to speech-language pathologists working in the public school system. The lectureship is named in honor of Martha E. Lynch, a speech-language pathologist who has devoted her thirty-year career to children with communication disabilities.

THE DAN MAY LECTURE. Made possible by a gift from the May family, this lecture series honors Mr. May, a Nashville business, educational, and civic leader who was a Vanderbilt graduate, long-time Board of Trust member, and friend of the University. The lecturer is a distinguished scholar of medicine or another discipline with expertise in cardiovascular disease, medical education, or humanistic aspects of medicine.

THE GLENN A. MILLIKAN MEMORIAL LECTURE. This lectureship was established in 1947 in memory of Dr. Millikan, professor of physiology, by members of the then secondyear class. It has subsequently received support by means of a capital fund by Dr. Millikan's father and mother, Dr. Robert A. Millikan and Mrs. Gretna B. Millikan, and friends. Contributions have been made to the fund by members of the founding class and other students. The lectureship is maintained to provide a distinguished lecturer in physiology.

THE WILLIAM F. ORR LECTURESHIP. This annual lectureship was established in 1976 through the generosity of Hoffman-LaRoche, Inc., in honor of Dr. William F. Orr, first professor and chairman of the Department of Psychiatry, a position he held from 1947 to 1969. A psychiatrist of national prominence is invited each year to present the lecture and to participate in various teaching conferences in the Department of Psychiatry.

THE FRED D. OWNBY LECTURESHIP IN CARDIOLOGY. This lectureship was established in 1996 as a tribute to Dr. Fred D. Ownby's contributions to the field of cardiology, his passion for education, and his commitment to the people of Middle Tennessee. Presented annually by a visiting professor, researcher, or clinician of national renown, the lectures, seminars, and teaching rounds address the latest advances in research, technology, and treatment of cardiovascular illnesses.

THE COBB PILCHER MEMORIAL LECTURE. In 1950, the Pi Chapter of the Phi Chi Medical Fraternity established the Cobb Pilcher Memorial Lecture to honor the memory of Dr. Pilcher, formerly associate professor of surgery, distinguished neurosurgeon, and a member of Phi Chi fraternity. Each year a lecturer of prominence is selected. The first lecture was given in 1950.

THE DAVID RABIN LECTURE IN ENDOCRINOLOGY. The Department of Medicine established in 1980 a visiting lectureship in recognition of the salient contributions of Dr. David Rabin to the world of endocrinology. Dr. Rabin was a professor of medicine and head of the Division of Endocrinology from 1975 until his death in 1984. This lectureship annually brings to Vanderbilt a world leader in the science of endocrinology and the application of that science to the solution of the problems of humankind.

THE SAMUEL S. RIVEN VISITING PROFESSORSHIP. This professorship was established in 1989 to honor Dr. Samuel Riven for more than fifty years of service to his patients and the Department of Medicine at Vanderbilt University. A physician of prominence is invited each year to present a lecture and to participate in various teaching conferences in the Department of Medicine.

THE W. D. SALMON LECTURESHIP IN THE DIVISION OF GASTROENTEROLOGY. Honoring William D. Salmon, Jr. (M.D. '49 and professor of medicine, emeritus), this annual lecture series brings a visiting professor to campus to discuss topics in the field of gastroenterology. THE HARRISON J. SHULL LECTURESHIP IN THE DIVISION OF GASTROENTEROLOGY. This lectureship honors the memory of the late Dr. Harrison J. "Hack" Shull, Sr. (M.D. '34), the first physician to specialize in gastroenterology in Middle Tennessee. He started Vanderbilt's Division of Gastroenterology in the 1950s.

THE NORMAN E. SHUMWAY JR. LECTURESHIP IN TRANSPLANTATION. This lectureship was established in 1994 to recognize the contributions and leadership of Dr. Shumway, a 1949 graduate of Vanderbilt University School of Medicine, in pioneering transplantation research, education, and patient care.

THE R. TURNER SIMPSON LECTURESHIP IN THE HISTORY OF MEDICINE. This lectureship was made possible by the generous contributions of John W. Simpson, M.D., Vanderbilt School of Medicine class of 1932, and his wife. The late Dr. Turner Simpson, brother of Dr. John W. Simpson, was also a Vanderbilt graduate. This lectureship will bring prominent figures in the field of medical history to Vanderbilt.

THE GRACE AND WILLIAM S. SNYDER LECTURESHIP. Established in 1983 by Phyllis and William B. Snyder, M.D. '57, the Snyder Lectureship honors Dr. Snyder's parents, both of whom practiced medicine in Kentucky. The lectureship is in the Department of Ophthalmology and Visual Sciences.

THE PAUL STERNBERG SR. LECTURESHIP. The Paul Sternberg Sr. Lectureship was established in 2004 by Dr. Paul Sternberg, Jr., in memory of his father, an innovative and skilled ophthalmic surgeon.

THE EARL W. SUTHERLAND LECTURESHIP IN THE DEPARTMENT OF MOLECULAR PHYSIOLOGY AND BIOPHYSICS. In 1999, this lectureship was established to honor the memory of former Vanderbilt professor and Nobel Laureate Earl W. Sutherland.

THE PAUL TESCHAN LECTURESHIP IN THE DIVISION OF NEPHROLOGY AND HYPER-TENSION. This lectureship was established in 1990 by colleagues of Dr. Teschan, professor of medicine, emeritus. Its purpose is to bring the world's outstanding leaders in nephrology to Vanderbilt to provide the Division of Nephrology with special occasions of stimulation and professional enrichment.

THE CHARLES J. THUSS SR. AND GERTRUDE NOBLE THUSS LECTURESHIP IN PLASTIC AND RECONSTRUCTIVE SURGERY. This lectureship was established in 1977 by Dr. Charles J. Thuss, Jr., medical class of 1961, of San Antonio, Texas, in honor of his parents. The lectureship is funded in collaboration with the Department of Plastic Surgery for the purpose of bringing distinguished lecturers in the field of plastic and reconstructive surgery to the Vanderbilt campus.

THE "UNIT S" OTOLARYNGOLOGY LECTURESHIP. This lectureship was established in 1994 through the leadership and generosity of Dr. William G. Kennon, Jr., and other descendants of the Vanderbilt University School of Medicine team which served during World War I.

THE VANDERBILT UROLOGY SOCIETY VISITING PROFESSORSHIP AND RHAMY-SHELLEY LECTURE. This annual visiting professorship and lectureship was established in 1972 through the efforts of former residents in urology at Vanderbilt University Medical Center. An outstanding urologist, from either the United States or abroad, is invited to spend four or five days as a visiting professor in the Department of Urology, to join with former residents and other urologists in demonstrations of surgical technique and diagnostic acumen, as well as in a series of conferences and lectures. The activities conclude with a formal lecture which honors Dr. Robert K. Rhamy, who was chairman of the Department of Urology at Vanderbilt from 1964 to 1981, and Dr. Harry S. Shelley, former chief of the Division of Urology at Nashville Veterans Administration Hospital.

THE LEVI WATKINS JR. LECTURE ON DIVERSITY IN MEDICAL EDUCATION This lectureship is established to recognize Dr. Watkins, the first African American graduate of the Vanderbilt University School of Medicine in 1970. It is established to support efforts to increase diversity in medical and graduate education.

THE ALBERT WEINSTEIN LECTURESHIP IN DIABETES. This lectureship was established as a tribute to the late Dr. Albert Weinstein by his wife, Miriam, and family members. Dr. Weinstein was born in Middlesboro, Kentucky, in 1905 and received his A.B. degree from Vanderbilt University in 1926. Three years later, he graduated as Founder's Medalist from Vanderbilt University School of Medicine. Following his residency training at Johns Hopkins, he moved to Nashville to begin his medical practice in internal medicine at Vanderbilt, where he served as a clinical professor for more than three decades. Recognized for his remarkable insight into the treatment of his patients, he was also an avid reader and publisher, credited for more than forty scientific papers on a wide array of subjects, including diabetes, cardiology, and hypertension.

THE MARY JANE AND ALBERT WERTHAN VISITING LECTURESHIP IN DERMATOLOGY. This lectureship was established by the Werthans in 1997 in honor of Dr. Lloyd King, Chairman of the Division of Dermatology at Vanderbilt University Medical Center. The named lectureship will bring topflight physician-scientists to Vanderbilt annually to discuss advances in the diagnosis, treatment, and causes of skin lymphoma and other types of skin cancers.

THE JOHN D. WHALLEY LECTURESHIP. The John D. Whalley Child Language Lectureship is an annual lecture presented by the Vanderbilt Bill Wilkerson Center, featuring internationally recognized researchers in the area of child language disorders. The lectureship is a tribute to the late John Donelson Whalley, one of the influential forces behind the development of the Scottish Rite Masons Research Institute for Communication Disorders at the Bill Wilkerson Center.



Honors and Awards

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Alpha Omega Alpha

A chapter of this medical honor society was established by charter in the School of Medicine in 1923. Not more than one-eighth of the students of the fourth-year class are eligible for membership, and only one-half of the number of eligible students may be elected to membership during the last half of their thir d year. The society has for its purpose the development of high standards of personal conduct and scholarship and the encouragement of medical r esearch. Students are elected into membership on the basis of scholarship, character, and originality.

Founder's Medal

The Founder's Medal, signifying first honors, was endowed by Commodore Cornelius V anderbilt as one of his gifts to the University . This medal is awarded to the student in the graduating class of the School of Medicine who, in the judgment of the Executive Faculty, has achieved the strongest record in the several areas of personal, professional, and academic performance in meeting the requirements for the Doctor of Medicine degree during four years of study at Vanderbilt.

Class Day Awards

THE SCHOOL OF MEDICINE AWARD OF DISTINCTION. This award is presented to students who have demonstrated outstanding leadership abilities in service to the School of Medicine.

THE DEAN'S AWARD. Presented to medical students distinguished by outstanding service to the School of Medicine and the community.

THE DEAN'S AWARD FOR RESEARCH. This award is presented to the graduating medical student who best exemplifies the attributes that lead to success in basic science or clinical research, namely creativity, dedication, productivity, and careful diligence.

THE KAUFMAN PRIZE IN MEDICINE. This award honoring J. Kenneth Kaufman, M.D. '39, is presented to a graduating medical student who has demonstrated qualities of humaneness, dedication, and unselfish service in the study of medicine and will apply these qualities in medical practice.

THE GEOFFREY DAVID CHAZEN AWARD. This award for innovation in medical education was established to recognize a student, resident, fellow, or faculty member who has made special contributions to the educational programs of the Vanderbilt University School of Medicine through the development and implementation of effective innovation in educational approach.

THE JANET M. GLASGOW MEMORIAL ACHIEVEMENT CITATION. This citation is presented in recognition of the accomplishments of women who graduate as honor graduates. It serves to reaffirm the American Medical Women's Association's commitment to encouraging their continuing achievement.

THE LEONARD TOW HUMANISM IN MEDICINE AWARD PRESENTED BY THE ARNOLD P. GOLD FOUNDATION. This award is given to a graduating student and a faculty member who demonstrate compassion and empathy in the delivery of health care, and who engender trust and confidence in both their patients and colleagues while adhering to professional ethical standards.

THE DAVID R. FREEDY MEMORIAL AWARD. This award is given to a graduating student and a faculty member who demonstrate compassion and empathy in the delivery of health care, and who engender trust and confidence in both their patients and colleagues while adhering to professional ethical standards.

THE AMOS CHRISTIE AWARD. This award recognizes the student in the graduating class who has demonstrated the outstanding qualities of scholarship and humanity embodied in the ideal pediatrician. The award is in memory of Dr. Amos Christie, who was Professor and Chairman of the Department of Pediatrics from 1943 to 1968.

THE JOHN L. SHAPIRO AWARD FOR EXCELLENCE PATHOLOGY. This award, given upon action of the Department of Pathology, recognizes outstanding student performance in pathology. It is given annually or otherwise depending upon action by the department and honors the memory of Dr. John L. Shapiro, who was Professor and Chairman of the Department of Pathology from 1956 to 1971. Dr. Shapiro remained an active participant in a variety of university and community activities, until his death on July 15, 1983.

THE CANBY ROBINSON SOCIETY AWARD. With nominations generated from the fourth year class, this award is presented to a member of the graduating class who possesses those intangible qualities of common sense, knowledge, thoughtfulness, personal warmth, gentleness and confidence which combine to make the "Ideal Doctor"...the person fellow classmates would most like to have as their personal physician.

THE ALBERT WEINSTEIN PRIZE IN MEDICINE. The Weinstein Prize in Medicine is awarded to a graduating student who has demonstrated high academic achievement, superior clinical competence, and the qualities of dedication and professionalism that characterize a good physician.

THE RUDOLPH KAMPMEIER PRIZE IN MEDICINE. The Kampmeier Award is presented by the Department of Medicine to the graduate who, in the judgment of the faculty, best combines high academic achievement with clinical excellence, original scholarship or research, and demonstrated potential for an academic career.

THE SURGICAL CLERKSHIP AWARD. This award is presented by the Section of Surgical Sciences to a student who has shown superior performance in the third-year surgical clerk-ship and who plans to enter graduate education in surgery.

THE H. WILLIAM SCOTT JR. PRIZE IN SURGERY. This award is presented to the graduating medical student who exemplifies the qualities of leadership, performance, and character reflecting the ideal surgeon.

THE HOSPITAL AWARD OF EXCELLENCE. This award recognizes the fourth year medical student by the chief residents of the services as having contributed most toward excellent patient care by demonstrating sensitivity, compassion, and concern in clinical responsibilities to patients of Vanderbilt University Medical Center.

THE BEAUCHAMP SCHOLARSHIP. Endowed and awarded to the student showing the greatest progress in the field of psychiatry.

THE MERCK AWARD FOR EXCELLENCE IN INFECTIOUS DISEASES. This award is presented annually by the Divisions of Infectious Diseases in the Departments of Medicine and Pediatrics to the student who has demonstrated outstanding aptitude and performance in clinical and investigative efforts in Infectious Diseases or Microbiology.

THE ORTHOPAEDIC SURGERY CLERKSHIP AWARD. This award is presented by the Department of Orthopaedic Surgery to the student who has excelled in both the third- and fourth-year orthopaedic clerkships, and who has demonstrated outstanding potential in the field of orthopaedic surgery.

THE TOM NESBITT AWARD. The Tom Nesbitt Award is presented by the Nashville Academy of Medicine and Davidson County Medical Society in recognition of the service and contribution of Tom Nesbitt, M.D., as a member of the Academy and the 133rd president of the American Medical Association. Dr. Nesbitt is an Assistant Clinical Professor of Urologic Surgery. This award is presented to the graduating medical student who demonstrates exemplary character and leadership.

THE LONNIE S. BURNETT AWARD IN OBSTETRICS AND GYNECOLOGY. This award is given to the student demonstrating superior performance and who exemplifies the qualities of dedication, leadership, compassion, and integrity in the field of obstetrics and gynecology.

THE PAULA C. HOOS AWARD. The Class of 2007 presents this award in recognition of teaching excellence in the anatomy laboratory and to express our sincere appreciation for the assistance of members of the graduating class.

THE AMERICAN ACADEMY OF NEUROLOGY MEDICAL STUDENT PRIZE FOR EXCEL-LENCE IN NEUROLOGY. This award is to recognize medical students for excellence in clinical neurology.

THE ROENTGEN AWARD. This award is given to a graduating medical student who has made important contributions in one of the radiological sciences during four years of study. Named for Wilhelm Conrad Roentgen, a pioneer in diagnostic radiology, the award recognizes discoveries in either clinical or research areas.

THE DIXON N. BURNS AWARD IN MEDICAL ETHICS. This is an award given by the Center for Clinical and Research Ethics to the graduating medical student who has, through a written essay, demonstrated unusual ability in identifying and analyzing ethical issues presented in either clinical or research contexts.

THE HARRISON SHULL SR. GASTROENTEROLOGY AWARD. This award is to recognize a medical student who has demonstrated outstanding clinical performance during the student rotation in gastroenterology or hepatology.

THE J. DONALD M. GASS AWARD IN OPHTHALMOLOGY. This award is established in honor of Dr. J. Donald M. Gass, a graduate of Vanderbilt University School of Medicine, Class of 1957, and a renowned medical retina specialist. This award is given to a student who demonstrates excellence in ophthalmic education and research.

THE EXCELLENCE IN EMERGENCY MEDICINE AWARD. This award for excellence in emergency medicine is given on behalf of the Society for Academic Emergency Medicine. This award recognizes a medical student for outstanding clinical performance in the Emergency Department at Vanderbilt University Medical Center.



Financial Information for Medical Students

UITION for the academic year 2005/2006 is \$33,200. The annual expense of a first-year student in the School of Medicine is estimated to be \$49,620.

Tuition and fees are set annually by the Board of Trust and are subject to review and change without further notice.

2005/2006

Application fee (to accompany secondary application)	\$ 50
Student activities and recreation fee (1st and 2nd years)	306
Student activities and recreation fee (3rd and 4th years)	361
Microscope usage fee per year (1st and 2nd years)	100
Student health insurance	1,896
Professional liability insurance	362
Student long-term disability insurance	52
Student health service fee	55
Transcript fee (one time only)	30

Payment of Tuition and Fees

All regularly enrolled medical students must pay the full tuition each year. There will be no exception to this r equirement. Graduate students who enroll in courses in the medical curriculum for credit toward an academic degree and who later become candidates for the Doctor of Medicine degree may be r equired to pay the full tuition as indicated above. One half of tuition, fees, and other University char ges are due and payable by 16 August. Second-semester tuition, fees, and other University charges are due and payable by 4 January.

Refund of Tuition

Students who withdraw of ficially or who are dismissed from the University for any r eason after the beginning of a term may be entitled to a partial refund in accordance with the schedule shown below. No refund will be made after the tenth week in any semester.

Withdrawal prior to the end of	Reduction
1st full week	100%
2nd full week	95%
3rd full week	85%
4th full week	80%
5th full week	75%
6th full week	70%
7th full week	60%
8th full week	55%
9th full week	50%
10th full week	45%

No refund after the 10th full week.

Late Payment of Fees

Charges not paid by 16 August will be automatically deferred, and the student's account will be assessed a monthly late payment fee at the following rate: \$1.50 on each \$100 that r emains unpaid after 16 August (\$5 minimum). An additional monthly late payment fee will be assessed unless payment is received in full on or befor e the end of each month, and late payment fees will continue for each month ther eafter based on the outstanding balance unpaid as of the end of each month. All amounts deferred are due not later than 30 November for fall semester and 30 April for spring semester. Graduating students are not allowed to defer charges that are billed in advance for the final semester.

Financial Clearance

Students may not be allowed to r egister for any semester if they have outstanding unpaid balances for any previous semester. No transcript, official or unof ficial, will be issued for a student who has an outstanding balance until the account has been paid. Diplomas of graduating students may be withheld until all bills are paid.

International students must pr ovide documentation of having funds sufficient to meet all tuition, mandatory fees, and living expenses for the anticipated period of enrollment before a visa will be issued. Information will be pr ovided by the University Of fice of International Student and Scholar Services.

Microscopes, Books, and Equipment

First-year and second-year students ar e provided microscopes by the University. The usage fee for this service is included in the tuition and fee schedule and is required of all students in these classes. All students must have clean white laboratory coats. In their second year, students must acquir e hemocytometers and ophthalmoscopes. The average cost for these instruments is approximately \$640.

The average cost of books is approximately \$540 per year. The Medical Bookstore accepts cash or major credit cards.

Activities and Recreation Fees

The required student activities and r ecreation fees entitle students to use the facilities of Sarratt Student Center and the Student Recr eation Center. The fees also cover admission to certain social and cultural events and subscriptions to certain campus publications. Specific information on these fees is published annually in the *Student Handbook*. By payment of an additional fee, students and their spouses may use their identification cards for admission to athletic events.

Professional Liability Insurance

Students will be automatically cover ed with pr ofessional liability insurance, required of all enrolled medical students, at the time of r egistration. The annual premium is payable in addition to tuition. Details of the policy are available at the University student insurance of fice, and students are encouraged to familiarize themselves with these details and with their responsibilities in this regard.

Students are covered whether they are at the Vanderbilt-affiliated hospitals (Vanderbilt University Medical Center, Nashville Veterans Administration Hospital, St. Thomas Hospital, or Baptist Hospital) or elsewher e as a "visiting student," pr oviding that (1) the clerkship or other educa – tional experience has prior appr oval from the School of Medicine as course work for cr edit, and (2) the activities within this experience ar e consonant with the student's level of training and experience and are performed under the supervision of appropriate faculty and/or staff.

Disability Insurance

Students will be automatically covered with long-term disability insurance, required of all enrolled medical students, at the time of registration. The annual premium is payable in addition to tuition. Details of the policy will be provided to each student following registration.

Student Health Insurance

All degree-seeking students registered for 4 or mor e hours at V anderbilt are required to have adequate hospitalization insurance coverage. The University offers a sickness and accident insurance plan that is designed to provide hospital, surgical, and major medical benefits. A brochure explaining the limits, exclusions, and benefits of insurance coverage is mailed to students in the summer and is available in the Office of Student Financial Services, or at the Student Health Center . See page 34 for mor e details.

Student Health Service Fee

The required student health service fee covers required immunizations and health screening tests.

Honor Scholarships

Each year, a number of Honor Scholarships ar e awarded to incoming students. The school is dedicated to creating a rich and excellent academic environment for each student. This environment is enhanced by the inclusion of students who are talented and represent a broad spectrum of society—social, economic, and cultural. Honor scholarships or dinarily continue through four years of study, as long as students maintain satis factory academic performance. There is no application process for Honor Scholarships. Selected students will generally be notified by letter fr om the Dean.

THE THOMAS M. BLAKE SCHOLARSHIP. This endowed scholarship was established through a bequest provision by the late Thomas M. Blake, a 1944 graduate of the School of Medicine. The income is used to assist worthy students in the School of Medicine on the basis of merit.

THE CANBY ROBINSON SCHOLARSHIPS. Canby Robinson Scholarships provide full tuition with a stipend and, with satisfactory progress at Vanderbilt, continue for four years. The scholarships are awarded on the basis of demonstrated leadership and scholarship activities. Scholarship recipients are recommended by the Dean and the chairman of the Admissions Committee and chosen by a committee from the Canby Robinson Society. These scholarships were established in 1986 by the Canby Robinson Society.

THE JOHN E. CHAPMAN. M.D., ENDOWED SCHOLARSHIP FUND. This endowed fund was established in 2001 by friends, colleagues, and medical alumni to honor Dean Chapman, the seventh dean of the School of Medicine, upon his retirement after twenty-five years of service. A full-tuition scholarship with a stipend is awarded on the basis of merit and need.

THE JOE C. DAVIS SCHOLARSHIP. The Davis Scholarship is given periodically to an incoming medical student who has demonstrated qualities of scholarship and leadership, as well as financial need. To be eligible, the candidate must come from a state specified as a Southeastern state east of the Mississippi. It is a full-tuition scholarship and a stipend for four years of medical study, contingent upon satisfactory performance. THE DEAN'S SCHOLARSHIPS. These full-tuition scholarships with a stipend are funded by the Dean's Office for four years of study, contingent upon satisfactory academic performance. The Vanderbilt University School of Medicine is committed to diversity in its student body.

THE DORIS M. AND FRED W. LOVE SCHOLARSHIP. The Love Scholarship was established by Dr. Fred W. Love, a 1945 School of Medicine graduate, and Mrs. Love. This tuition scholarship with a stipend is given periodically and continues contingent upon satisfactory progress until the recipient graduates.

THE KONRAD LUX SCHOLARSHIP. This endowed scholarship was established by the will of Konrad Lux, a 1925 Vanderbilt University graduate, to benefit students in the oral surgery program.

THE BESS AND TOWNSEND MCVEIGH SCHOLARSHIP FUND. This endowed scholarship was established in memory of her parents by Grace McVeigh, a 1925 Vanderbilt University graduate, to provide full-tuition four-year scholarships, with a stipend, for the benefit of needy and worthy students in the School of Medicine.

THE BARBARA D. MURNAN MEMORIAL SCHOLARSHIP. This endowed scholarship fund was established through a bequest provision by the late Barbara Murnan, a member of the College class of 1934. The income provides merit-based awards to medical students.

THE COLEMAN D. OLDHAM HONOR SCHOLARSHIP. This endowed scholarship was established through testamentary trust agreements by the late Coleman D. Oldham and his sister Emma. Mr. Oldham, who lived in Richmond, Kentucky, was a 1924 graduate of the College of Arts and Science. The Oldhams stipulated that the scholarship be used to benefit worthy male students from Madison County, Kentucky, or if not available, worthy male students from Kentucky at large.

THE ELIZABETH CRAIG PROCTOR SCHOLARSHIP. This endowed scholarship was established through the generosity of Elizabeth Proctor and provides full tuition with a stipend to a worthy medical student chosen by the Dean of the School of Medicine. The first Proctor Scholarship was awarded to a student from the incoming class of 2004.

Financial Assistance

Education leading to the Doctor of Medicine degr ee requires a careful consideration of financial commitment by prospective students and their families. Financial planning is an important part of the student's preparation for medical school.

In addition to the Honor Scholarships just described, scholarships and loans are available through Vanderbilt, based on demonstrated financial need and continued satisfactory academic progress. Financial aid from school sources must be considered a supplement to governmental and other sources, rather than the primary source of funds necessary to attend medical school. Institutional financial aid is not adequate to meet students' demonstrated need, but approved educational expenses are met with funds from a combination of sources. Government funds that furnish significant loans to medical students are the Federal Subsidized and Unsubsidized Stafford Loan programs. Students interested in primary care may be eligible for Primary Care Loans. Private alternative loans are also available.

Additional information and applications for financial aid ar e online at *www.mc.vanderbilt.edu/medschool/finaid/finaid1.php*. Applicants desiring more specific information about financial aid resources should contact the medical school Office of Student Financial Services.

The following are some of the Vanderbilt University School of Medicine institutional scholarships and loans available to assist students with demonstrated financial need.

Scholarships

THE ALPHA KAPPA KAPPA ALUMNI ASSOCIATION FUND. These funds are made available to students through contributions from alumni of the Alpha Kappa Kappa medical fraternity.

THE LUCILE R. ANDERSON SCHOLARSHIP FUND. This scholarship was established by Lucile R. Anderson, a 1933 School of Medicine graduate.

THE SUE AND NELSON ANDREWS SCHOLARSHIP FUND. This endowed scholarship fund was established in 2001 through the generosity of Board of Trust member Nelson Andrews, B.A.'50, and his wife Sue Adams, B.A.'51, to help deserving and needy students attend the School of Medicine.

THE EUGENE AND MARGE BESPALOW SCHOLARSHIP FUND. This endowed scholarship fund for deserving medical students was established by Dr. Bruce Dan, a Vanderbilt alumnus, in honor of his grandparents.

THE DR. DANIEL B. BLAKEMORE SCHOLARSHIP FUND. This endowed scholarship was established by the will of Mrs. Nell J. Blakemore in memory of her husband for the benefit of worthy medical students who are in need of financial assistance.

THE BURRUS SCHOLARSHIP FUND. This endowed scholarship was established by members of the Burrus family to help meet the cost of tuition for medical students.

THE THOMAS CULLOM BUTLER AND PAULINE CAMPBELL BUTLER SCHOLARSHIP. This endowed scholarship was established by Thomas Cullom Butler, a 1934 School of Medicine graduate, for worthy and needy medical students.

THE JOHN E. CHAPMAN, M.D., AND JUDY CHAPMAN SCHOLARSHIP. This endowed scholarship fund was established through a bequest provision by the late Grace McVeigh to honor her friends Dean Chapman and his wife Judy for their many years of service at Vanderbilt University. The income is used to support needy and worthy students in the School of Medicine.

THE ALICE DREW CHENOWETH SCHOLARSHIP. This scholarship honors the career of Dr. Alice Drew Chenoweth, a 1932 School of Medicine graduate who had a distinguished career as a pediatrician in the area of public health.

THE CLASS OF 1943 MARCH AND DECEMBER SCHOLARSHIP FUNDS. These endowed scholarships were established by members of these medical school classes.

THE CLASS OF 1946 MEDICAL SCHOLARSHIP. This scholarship was established by members of this medical school class.

THE CLASS OF 1947 SCHOLARSHIP. This scholarship was established by members of this medical school class.

THE CLASS OF 1964 MEDICAL SCHOLARSHIP FUND. This scholarship was established by members of this medical school class.

THE DR. ROBERT D. COLLINS SCHOLARSHIP FUND. This endowed scholarship was established by alumni in honor of Dr. Robert D. Collins, a distinguished and admired longtime professor of pathology and 1951 School of Medicine graduate.

THE COMMONWEALTH SCHOLARSHIP. This scholarship aid is made possible by the generosity of the Commonwealth Fund of New York City, a private foundation which has been supporting needy and deserving students in the School of Medicine for many years.

THE MARVIN B. AND MILDRED G. CORLETTE SCHOLARSHIP. This scholarship was established in December 2003. This endowment will support students in the Medical School.

THE DEBORAH AND C. A. CRAIG II MEDICAL SCHOLARSHIP FUND. This fund was established in 1992 by Mr. and Mrs. C. A. Craig II. It provides support to talented and deserving students engaged in the study of medicine. Preference is awarded to former Eagle Scouts.

THE JACK DAVIES SCHOLARSHIP FUND. This fund was endowed primarily through gifts from the Classes of 1981, 1982, 1983, 1984, and 1994 in honor of the distinguished and beloved longtime professor of anatomy. This fund is designed to provide medical student financial assistance.

THE J. T. AND MARY P. DAVIS SCHOLARSHIP FUND. This endowed scholarship was established by J. T. Davis, a 1931 School of Medicine graduate.

THE ENTREPRENEURIAL COMMUNITY SERVICE SCHOLARSHIP. This endowed scholarship is given to a student who demonstrates entrepreneurial spirit and dedicates a significant portion of their free time to community service. This scholarship is given anonymously.

THE HERBERT ESKIND MEMORIAL FUND. This scholarship honoring the memory of Mr. Herbert Eskind was established by members of his family.

THE ROBERT SADLER–WILLIAM EWERS SCHOLARSHIP FUND. This endowed scholarship was established in honor of Robert Sadler and William Ewers, 1947 School of Medicine graduates.

THE SAM FLEMING SCHOLARSHIP. This scholarship for needy medical students was established by J. T. Stephens in honor of Sam Fleming, former president of the Vanderbilt Board of Trust.

THE J. F. FOX STUDENT SCHOLARSHIP IN MEDICINE. This fund was established in memory of Dr. J. F. Fox, a Vanderbilt graduate, and provides for annual assistance to students in the School of Medicine based on scholarship, promise, and financial need.

THE D. G. GILL SCHOLARSHIP FUND. This fund was established in 1982 by the family of the late Dr. Daniel Gordon Gill. First preference goes to those students with financial need who have expressed an interest in the field of public health.

THE DRS. FRANK LUTON AND CLIFTON GREER SCHOLARSHIP FUND. This fund was founded in 1995 through a gift from the estate of Dr. Clifton Greer, M.D. '51, in honor of the late Dr. Luton, M.D. '27. It provides tuition support for medical students with demonstrated financial need, with preference given to those from the southeastern United States.

THE DR. HARRY GUFFEE SCHOLARSHIP FUND. This endowed scholarship was established in honor of Dr. Harry Guffee, a 1939 School of Medicine graduate. Residents of Williamson County, Tennessee, are given first preference, and residents of the counties adjoining Williamson County are given second preference.

THE GLENN AND VIRGINIA HAMMONDS SCHOLARSHIP. This endowed scholarship was established by the late Dr. R. Glenn Hammonds, a 1944 graduate of the School of Medicine. The income is used to provide financial assistance to worthy and needy medical students.

THE FRANK M. HANDLEY SCHOLARSHIP. This endowed scholarship was provided from the estate of Frank M. Handley, a 1928 Vanderbilt Law School graduate.

EMILY AND H. CAMPBELL HAYNIE SCHOLARSHIP. In October 2001, the Emily and H. Campbell Haynie Scholarship was established in the Medical School endowment fund to benefit medical students.

THE JAMES HOLLORAN SCHOLARSHIP. This endowed scholarship was established by the class of 1980 in memory of their classmate, "Ed" Holloran.

THE HARRY R. JACOBSON, M.D., AND JAN JACOBSON SCHOLARSHIP. This endowed scholarship fund was created through a bequest by the late Grace McVeigh to honor Vice Chancellor Jacobson and his wife Jan for their service to Vanderbilt University. The income is used to provide support to needy and worthy students in the School of Medicine.

THE HOLLIS E. AND FRANCES SETTLE JOHNSON SCHOLARSHIP FUND. This endowed scholarship was established by Hollis E. Johnson, a 1921 School of Medicine graduate.

THE IKE J. KUHN FUND. This scholarship fund is provided by a bequest from the will of Mr. Ike J. Kuhn and is awarded in the School of Medicine to a worthy man or woman born and raised in any of the states commonly known as the "southern states."

THE ANN R. LIGHT SCHOLARSHIP FUND. This endowed scholarship was established by Ann R. Light for needy medical students.

THE THOMAS L. MADDIN, M.D., FUND. This fund is provided by a bequest from the will of Mrs. Sallie A. C. Watkins in memory of Dr. Thomas L. Maddin.

THE JACK MARTIN SCHOLARSHIP FUND. This endowed scholarship was established in honor of Jack Martin, a 1953 School of Medicine graduate.

THE ROBERT L. AND BILLYE MCCRACKEN SCHOLARSHIP. This endowed scholarship fund was established through the generosity of the late Dr. and Mrs. Robert McCracken. Dr. McCracken was a Nashville thoracic sergeon and member of the medical class of 1939. The income is used to provide financial assistance to needy and worthy students enrolled in the School of Medicine.

THE PATRICIA AND EDWARD J. MCGAVOCK SCHOLARSHIP FUND. This endowed scholarship fund was established in 1998 through a bequest provision by the late Patricia McGavock of Old Hickory, Tennessee, to benefit students enrolled in the Vanderbilt University School of Medicine.

THE CHARLES AND EDITH MCGILL SCHOLARSHIP FUND. This endowed scholarship was established in 2000 through the proceeds of a life income trust set up by the late Charles M. McGill, M.D.'35, and his wife, Edith, for the benefit of students enrolled in the Vanderbilt University School of Medicine.

THE BARTON MCSWAIN ENDOWED SCHOLARSHIP This endowed scholarship was established in 1994 with proceeds raised by the Vanderbilt School of Medicine Class of 1958 to honor the late Nashville pathologist H. Barton McSwain, B.A.'27, M.D.'30. The income is to be used to benefit students enrolled in the Vanderbilt University School of Medicine.

MEDICAL STUDENT SCHOLARSHIPS GIFT FUND. Funds are available to needy students through gifts donated by alumni and friends of Vanderbilt School of Medicine.

THE H. HOUSTON MERRITT SCHOLARSHIP. This endowed scholarship was established by H. Houston Merritt, a 1922 School of Medicine graduate.

THE JAMES PRESTON MILLER TRUST. This trust, left by the will of James P. Miller in memory of his father, James Preston Miller, provides funds to assist in the medical education of deserving young men and women at Vanderbilt University. Residents of Overton County, Tennessee, are to be given first preference, and other residents of Tennessee are to be given second preference.

THE C. LEON PARTAIN, M.D., AND JUDITH S. PARTAIN SCHOLARSHIP FUND. This endowed scholarship was established in 1998 through a bequest of the late Grace McVeigh, B.A. '25, for the benefit of needy and worthy students at Vanderbilt University School of Medicine. The scholarship honors Dr. and Mrs. Partain for their service to Vanderbilt University Medical Center during Dr. Partain's tenure as chairman of the Department of Radiology and Radiological Sciences, 1992–2000.

THE THOMAS W. RHODES STUDENT SCHOLARSHIP FUND. Funds provided by the will of Georgine C. Rhodes were left to Vanderbilt University for the purpose of establishing a scholarship fund in the School of Medicine.

THE RILEY SCHOLARSHIP. This endowed scholarship was established by members of the Riley family: Harris D. Riley, Jr., M.D.; Frank Riley; Richard F. Riley, M.D.; and William G. Riley, M.D., all of whom are Vanderbilt alumni.

THE CANBY ROBINSON SOCIETY STUDENT SCHOLARSHIP BENEFACTOR PROGRAM. Scholarships are made available to students from members who donate to this program.

THE ROSCOE R. ROBINSON, M.D., AND ANN ROBINSON SCHOLARSHIP FUND. This endowed scholarship was established in 1999 through a bequest by the late Grace McVeigh, B.A.'25, for the benefit of needy and worthy students in the Vanderbilt University School of Medicine. The scholarship honors Dr. and Mrs. Robinson for their service to Vanderbilt Medical Center during Dr. Robinson's tenure as Vice Chancellor for Medical Affairs, 1981–1997.

THE HELEN AND LOUIS ROSENFELD ENDOWED SCHOLARSHIP FUND. This endowed scholarship was established by Helen Rosenfeld, a Vanderbilt University alumna, and Louis Rosenfeld, a 1936 School of Medicine graduate.

THE GEORGE E. ROULHAC MEMORIAL SCHOLARSHIP FUND. This fund was established in 1994 through a gift from the estate of Dr. Roulhac, M.D. '39. It provides tuition support for medical education.

THE WILLETT H. "BUDDY" RUSH SCHOLARSHIP. Established in memory of Dr. Rush, a 1941 graduate of the School of Medicine, this scholarship honors the dedication he showed to the practice of medicine and the Frankfort, Kentucky, community. Awards are given in order of preference to students from Frankfort, Kentucky, the bluegrass region of Kentucky, and then the state of Kentucky.

THE RICHARD M. SCOTT FINANCIAL AID PROGRAM. This endowed scholarship was established by the medical class of 1988 to honor Richard M. Scott, director of financial aid for the School of Medicine from 1970 to 1987.

THE JOHN SECONDI SCHOLARSHIP FUND. This endowed scholarship was established in memory of Dr. John Secondi, a 1970 School of Medicine graduate.

THE FRANK C. AND CONNIE EWELL SPENCER MEDICAL SCHOLARSHIP FUND. This endowed scholarship fund was established in 1997 by Dr. Frank Cole Spencer, M.D. '47 and his wife, Connie Ewell Spencer, B.A. '46, to honor his medical class of 1947 on the occasion of its 50th reunion. The scholarship is used to assist worthy students who would not otherwise be able to afford to attend the School of Medicine.

THE LESLIE M. SMITH AND EVELYN C. SMITH SCHOLARSHIP ENDOWMENT FUND This endowed scholarship fund was established in 1998 by Mrs. Evelyn Clark Smith, widow of Dr. Leslie McClure Smith, M.D. '30, to be used to assist needy medical students. Preference is given to students from New Mexico and Kentucky.

THE JOHN N. SHELL ENDOWMENT FUND. This scholarship fund is provided by a bequest from the will of John N. Shell.

THE K. DOROTHEA AND JOSEPH G. SUTTON SCHOLARSHIP IN MEDICINE. This scholarship was established in 1995 through a gift from the estate of Dr. Sutton, M.D. '22, for the benefit of students with financial need who are pursuing the study of medicine.

HARLAN HOWARD TAYLOR SURGICAL SCHOLARSHIP. This endowment scholarship fund was established through the proceeds of a life income trust set up by the late Dr. Harlan Howard Taylor to benefit medical students going into surgical fields.

THE IRENE BEDFORD WATERS SCHOLARSHIP This scholarship was established by W. Bedford Waters, a 1974 graduate of the School of Medicine, in honor of his mother, Irene. The scholarship benefits medical students who have demonstrated financial need, with first preference going to minority students.

THE CHARLES E. AND MILDRED WORK SCHOLARSHIP. This endowed scholarship was established through a bequest gift by the late Dr. Charles E. Work, a 1935 graduate of the School of Medicine. The income is used to provide financial aid to needy and worthy medical students.

THE FRED C. WATSON MEMORIAL SCHOLARSHIP. This scholarship is made on the recommendation of the School of Medicine to students selected by a committee based in Lexington, Tennessee, to students who are graduates of Lexington High School and/or are residents of Henderson County.

THE JOE AND HOWARD WERTHAN FOUNDATION FUND. The funds made available by this foundation to Vanderbilt University are to be given to those students in the School of Medicine needing financial assistance.

THE DR. DAVID HITT WILLIAMS MEMORIAL SCHOLARSHIP FUND. This fund was established in 1998 through the bequest of Eugenia F. Williams in memory of her father, a successful financier, professor of obstetrics and gynecology, and medical practitioner in Knoxville, Tennessee. The income from the endowment is to be used to assist worthy and deserving students in the School of Medicine.

Other Scholarships

Other scholarships are available outside of the need-based institutional financial aid program. They are as follows:

THE ELBYRNE GRADY GILL SUMMER RESEARCH SCHOLARSHIPS IN OPHTHALMOL-OGY AND OTOLARYNGOLOGY. These scholarships provide support for medical student summer research in the areas of ophthalmology and otolaryngology.

THE MARY AND WILLIAM O. INMAN JR. SCHOLARSHIP FUND. This fund was established by Miss Grace McVeigh to pay tribute to the many contributions to the Brunswick, Georgia, community by the Inmans. This fund supports students in the combined M.D./Ph.D. program.

MEADE HAVEN SCHOLARSHIPS IN BIOMEDICAL SCIENCES. Meade Haven scholarships in biomedical sciences have been endowed to provide support for medical students who have made a serious career commitment to obtain advanced experience and training in research in the biomedical sciences.

Revolving Loans

THE AMA/ERF LOAN FUND. Funds are available to needy students through gifts donated by the American Medical Association Education and Research Foundation.

THE F. TREMAINE BILLINGS REVOLVING STUDENT LOAN FUND. Established by Elizabeth Langford and friends, this loan fund honors Dr. Billings and his many contributions as friend and internist. It is to be used for the education of worthy medical students.

THE BLOSSOM CASTER LOAN FUND. This fund was established by Milton P. Caster, a 1949 School of Medicine graduate, in honor of his mother, Mrs. Blossom Caster.

THE O. D. CARLTON II LOAN FUND. This revolving loan fund was established by Hall Thompson in honor of O. D. Carlton II for needy third- and fourth-year medical students.

THE EDWARD F. COLE REVOLVING MEDICAL LOAN FUND. These funds are made available to students through contributions from Dr. Edward F. Cole, a Vanderbilt Medical alumnus.

THE FRANK M. DAVIS AND THEO DAVIS STUDENT LOAN FUND. This endowed loan was established by Frank M. Davis, a 1934 School of Medicine graduate.

THE MAX EISENSTAT REVOLVING STUDENT LOAN FUND. This fund was established to honor the memory of Dr. Max Eisenstat.

THE TINSLEY HARRISON LOAN FUND. This fund was established to assist needy and worthy medical students by Dr. T. R. Deur, a Vanderbilt Medical School alumnus, in memory of Dr. Harrison, a former teacher and clinician at the school.

THE GALE F. JOHNSTON LOAN FUND. The funds donated by Gale F. Johnston are to be used as a revolving loan fund for students in the School of Medicine.

THE W. K. KELLOGG FOUNDATION LOAN FUND. This fund was established through donations from the W. K. Kellogg Foundation.

THE LAUDIE AND EDITH MCHENRY REVOLVING LOAN FUND. This fund was established with the proceeds from the trust of Dr. Laudie E. McHenry, a 1953 School of Medicine graduate, for students enrolled in the School of Medicine.

THE VANDERBILT MEDICAL FACULTY LOAN FUND. This fund is made available by donations from members of the School of Medicine faculty to be used to defray the educational costs of disadvantaged students.

THE MEDICAL LOAN FUND OF LIFE AND CASUALTY INSURANCE COMPANY OF TEN-NESSEE. Through donations from the Life and Casualty Insurance Company of Tennessee, needy students are provided revolving student loans.

THE MEDICAL SCHOOL STUDENT AID LOAN FUND. This fund is made possible through contributions from alumni and friends.

THE J. C. PETERSON STUDENT LOAN FUND. This fund was established in memory of Dr. J. C. Peterson to provide loan monies for deserving medical students.

THE COLONEL GEORGE W. REYER MEMORIAL LOAN FUND. This fund was established by Colonel George W. Reyer, a 1918 School of Medicine graduate.

THE LEO SCHWARTZ LOAN FUND. This loan fund was established through contributions from Dr. Leo Schwartz.

THE ROBERT E. SULLIVAN MEMORIAL LOAN FUND. Through the generosity of Robert E. Sullivan, a fund has been established to assist worthy and deserving medical students.

THE ROANE/ANDERSON COUNTY MEDICAL SOCIETY FUND. This revolving loan fund is given to a needy medical student, with preference given, when possible, to students from Roane, Anderson, and Morgan Counties of Tennessee.

THE THOMPSON STUDENT LOAN FUND. This fund is to be used as a revolving loan fund for students in the School of Medicine from Middle Tennessee.

THE VANDERBILT MEDICAL SCHOOL ALUMNI REVOLVING LOAN FUND. This fund was established through contributions from alumni.

Student Summer Fellowships

Student research under the sponsorship of members of the faculty of the preclinical and clinical departments is encouraged as an important part of the elective medical curriculum. Stipends vary fr om about \$2,000 to \$4,000 for the summer pr ograms, depending duration of pr oject. Limited funds for fellowship support ar e available on a competitive basis from individual departments within the School of Medicine, with matching support from the Dean's of fice. Funds ar e provided from a variety of sources, including the United States Public Health Service and various private foundations and health-interested organizations such as the local affiliates of the American Heart Association.

Research projects may be taken as electives for cr edit but without r emuneration. Special arrangements can be made for participation in r esearch programs abroad or in other medical schools in the United States. Individual departments or faculty members may also support student research experiences. Funds from all sources are becoming more difficult to obtain, but remain available, though limited. A complete listing of summer research opportunities is available on the School of Medicine Web site.

Medical Scholars Program

The Medical Scholars Program is sponsored by the school and offers interested students a one-year, in-depth, research experience in addition to the traditional four years of medical school. The goal of the Medical Scholars Program is to foster an inter est in r esearch among medical students that may eventually lead them to pursue car eers in academic medicine. The research opportunities encompass all departments of the School of Medicine and ar e aimed at giving medical students the opportunity to contribute to the pr ocess of discovery in either clinical or basic r esearch laboratories.

All medical students at the V anderbilt University School of Medicine, except those enr olled in the MSTP program, are eligible to apply to the program. Formal application to the Medical Scholars Pr ogram may be made in the spring of each year . The duration of the pr ogram is twelve consecutive months, beginning July 1.A stipend of \$23,000 is provided for each student. Criteria for selection include a student's interest in research and an appr opriate research topic and mentor . More than 200 faculty members serve as potential advisers. The types of r esearch available to students range fr om patient-oriented studies to epidemiological investi - gations to research at the molecular level. Interested students should contact Bonnie M. Miller, M.D., Associate Dean for Undergraduate Medical Education, or T ina Hartert, M.D./M.P.H., Director of the Medical Scholars' Program.



Financial Information for Other Single Degree Programs 2005/2006

Doctor of Audiology

Tuition, 1st, 2nd, 3rd years Tuition, 4th year	\$24,000 5,000	
The total estimated cost of attendance for a first year student is \$43,180.		
Master of Science in Medical Physics		
Tuition (19 hours @ \$940/hr.)	\$17,860	
The total estimated cost of attendance for a first year student is \$32, 960.		
Master of Science in Public Health		
Tuition, 1st year (30 hours at \$940/hr.) Tuition, 2nd year (7 hours at \$940/hr.)	\$28,200 6,580	
The total estimated cost of attendance for a first year student is \$41,960.		
Master of Laboratory Science		
Tuition (12 hours at $940/hr$.) The total estimated cost of attendance for a first year student is 26,520.	\$11,280	
Master of Science in Clinical Investigation		
Tuition, 1st year (26 hours at \$940/hr.)) Tuition, 2nd year (5 hours at \$940/hr.)	\$24,440 4,700	
Tuition and fees are set annually by the Board of Trust and are subject to review and change without further notice.		
Other Fees		
Student health insurance fee Activities and recreation fee (9 months) Activities and recreation fee (12 months) Transcript fee (one time only)	\$1,896 306 361 30	

Payment of Tuition and Fees

One-half of tuition, total fees, and other University charges are due and payable by 16 August. Second-semester tuition, fees, and other University charges are due and payable by 4 January.

For late payment of fees, refund schedule, financial clearance, activities and recreation fee, and student health insurance information, see pages 115-118.

Financial Assistance

Approved educational expenses ar e met with funds fr om a combination of sour ces. Government loans that furnish significant loans to students ar e the Federal Subsidized and Unsubsidized Staf ford Loan programs. Private alternative loans are also available.

Additional information and applications for financial aid ar e online at *www.mc.vanderbilt.edu/medschool/finaid/finaid1.php*. Applicants desiring more specific information about financial aid resources should contact the Medical School Office of Student Financial Services.



Research in Medical Sciences

Endowed Research Funds

THE RACHEL CARPENTER MEMORIAL FUND. This fund was established in 1933 by a gift from Mrs. Mary Boyd Carpenter of Nashville. The income derived from the fund is to be used for education in the field of tuberculosis.

THE BROWNLEE O. CURREY MEMORIAL FUND FOR RESEARCH IN HEMATOLOGY. This is a memorial fund created by the friends of Brownlee O. Currey. The income is being used for the support of research in the field of hematology.

THE JACK FIES MEMORIAL FUND. The income from a gift to Vanderbilt by Mrs. Hazel H. Hirsch as a memorial to her son, Jack Fies, is to be used to support research in the field of neurosurgery. It is hoped that subsequent donations will be made by those who may be interested in creating a larger fund for this phase of research.

THE JOHN B. HOWE FUNDS FOR RESEARCH. In January 1946, the members of the family of the late John B. Howe established two funds in the University to be known as the John B. Howe Fund for Research in Neurosurgery and the John B. Howe Fund for Research in Medicine. The expenditures from the funds for neurosurgery and medicine are administered through the Department of Surgery and the Department of Medicine.

THE BEQUEST OF AILEEN M. LANGE FOR MEDICAL RESEARCH. To be used for medical research in preventing and curing ailments of human beings.

THE ANNIE MARY LYLE MEMORIAL FUND FOR MEDICAL RESEARCH. This gift is to be used for basic or applied research in medical science, particularly cardiovascular research or another area of need.

THE NEUROLOGY RESEARCH FUND. Funds to be used for research efforts in the field of neurology.

THE MINNIE J. ORR FUND FOR RESEARCH IN POLIOMYELITIS OR HEART DISEASE.

THE MARTHA WASHINGTON STRAUS–HARRY H. STRAUS FOUNDATION, INC. The foundation provides support for research in the Department of Medicine in the field of cardiovascular diseases.

THE LESLIE WARNER MEMORIAL FUND FOR THE STUDY AND TREATMENT OF CANCER. This fund was established in 1932 in the memory of Leslie Warner of Nashville, Tennessee. Half of the founding grant was contributed by the nieces and nephews of Mrs. Leslie Warner.

Multi-Investigator Research Centers and Programs

Vanderbilt AIDS Center

The Vanderbilt AIDS Center supports all HIV -related research and helps coordinate HIV care and provider education. Several multi-investigator NIH grants support the full spectrum of HIV research, from clinical trials to basic virology and immunology. The Vanderbilt Meharry Center for AIDS Research (CFAR) grant is a key component. The V anderbilt Meharry CFAR was established in 2003 to strengthen HIV/AIDS research across both Vanderbilt and Meharry campuses, as well as the Comprehensive Care Center. It is one of 20 CFARs at academic medical centers across the United States that are competitively funded by the NIH. CFAR aims to synergistically enhance HIV/AIDS r esearch by pr oviding expertise, r esources, and services that foster interdisciplinary collaboration, especially on translational r esearch. The V anderbilt Meharry CF AR focuses on r esearch into disparities in the HIV epidemic, and collaborates closely with the Vanderbilt Institute for Global Health.

Center for Child Development

See page 342.

Center for Clinical and Research Ethics

Established in 1982, the Center of fers a variety of multi-disciplinary academic and clinical pr ograms whose purpose is to addr ess the moral and ethical issues pr esented within clinical and r esearch contexts. The Center's activities focus on education, clinical practice and theory , research, and community service in all ar eas of the health pr ofessions and are designed for graduate and pr ofessional students, house and nursing staffs, attending physicians, r esearchers, and persons and gr oups in the surrounding community and r egion working in or concerned about health professions.

Center for Health Services Research

The mission of the Center for Health Services Resear ch is to improve public and personal health thr ough discovery and training pr ograms aimed to pr otect against thr eats to health, pr omote healthier living, improve the quality of health services and prepare leaders to advance health and health care. Center programs aim to improve health, as measured by health outcomes, including length of life, quality of life, function of the human body and spirit, satisfaction with health car e and costs of health care. To achieve impr oved health, Center pr ograms conduct r esearch to advance health car e systems so that they ar e safe, ef fective, patient-centered, timely, efficient and equitable. The Center has six r esearch units: clinical epidemiology and outcomes r esearch, clinical impr ovement and operations research, clinical economics and operations r esearch, chronic disease and molecular epidemiology , health behavior and education r esearch and health policy.

Center for Human Genetics Research

The Vanderbilt Center for Human Genetics Research (CHGR) was initiated in July, 1997, to bring a focus to human genetic esearch at Vanderbilt, to foster the expansion of this r esearch, and to help develop appr opriate training activities for a growing number of students interested in human genetics. The central theme of the CHGR is the understanding of how genes influence complex traits; traits that ar e influenced by the intricate interplay of multiple genes and environmental factors. This encompasses research at the molecular , clinical, and population levels performed by faculty in multiple departments and schools.

Center for Lung Research

Division of Allergy, Pulmonary and Critical Care Medicine

This center stimulates and facilitates lung research and training throughout the institution. Center investigators represent nine departments and are engaged in a wide range of basic and clinical r esearch. These investigators work both individually and in collaboration with many other faculty members. The center serves to identify important r esearch opportunities, to as sist investigators in identifying collaborators within and outside the institution, and to facilitate the research process by providing physical facilities, financial support, and administrative and scientific expertise. The center maintains close r elationships with the departments of medicine, cell biology, pediatrics, pathology, biomedical engineering, pharmacology, and molecular physiology and biophysics, as well as with other departments in the schools of medicine and engineering.

Center for Matrix Biology

The mission of this center is to foster cohesive interactions among Vanderbilt University scientists who work, directly or indirectly, on extra cellular matrix biology in or der to facilitate collaborations, pr omote excellence in matrix research and acquire funding support.

Center for Molecular Neuroscience

The Center for Molecular Neuroscience supports research and training of neuroscientists who utilize sophisticated genetic, cell biologic, bio chemical and biophysical techniques to understand fundamental aspects of development, signaling and disease in the brain. Major research foci of faculty are in neuronal development and differentiation, control of membrane excitability, mechanisms of synaptic plasticity, elucidation and analysis of drug actions in the brain, and altered gene/protein function in mental illness. Faculty of the CMN utilize state-of-the art molecular and transgenic techniques to understand how key genes contr ol brain development and function and to develop new animal models for syndr omes such as ADHD, Parkinson's disease and Alzheimer's disease.

Center for Molecular Toxicology

The Center in Molecular Toxicology is a National Institute of Envir onmental Health Science-funded r esearch center. The Center 's overall r esearch goals ar e to understand phenomena of toxicological inter est in chemical terms, answer questions r elated to toxicity at the biochemical level, and apply such chemical and biochemical knowledge to pr oblems involving human health.

Center for Space Physiology and Medicine

To demonstrate its commitment to r esearch in the physiological challenges of manned space flight, V anderbilt University Medical Center es tablished the Center for Space Physiology and Medicine in 1989. Under the direction of David Robertson, M.D., Pr ofessor of Medicine, Pharmacology, and Neurology, and F. Andrew Gaffney, M.D., Professor of Medicine, the Center's mission is to direct and coordinate the Medical Center's space-related research. The collaborating members of the medical faculty are internationally r ecognized authorities in many ar eas relevant to manned space flight. The Center also has close ties to scientists within NASA centers and to Russian investigators in the Institute for Biomedical Problems and the Russian Research Center in Moscow.

Center for Structural Biology

The trans-institutional Center for Structural Biology, founded in 2000, is a new trans-institutional research and training unit that focuses on the integrated application of structural methods for solving fundamental problems in medicine and biology. The Center also provides education and training in all areas of structural biology to all interested researchers on campus. Faculty, drawn from eight departments in the College of Arts & Science and the School of Medicine utilize NMR, EPR and fluorescence spectroscopes, X-ray crystallography, cryo-electron microscopy and computational techniques to understand a range of critical events such as signal transduction, viral infection, the r eplication of genes in healthy cells, and the malfunction of the repair of damaged genes in cancer.

Clinical Nutrition Research Unit Division of Cardiovascular Medicine

The Clinical Nutrition Research Unit (CNRU) is funded by the NIDDK to promote nutrition r esearch and education at V anderbilt. Nutrition r esearch is carried out by faculty members in most academic departments and extends fr om basic laboratory r esearch to clinical and applied r esearch. A particular mission of the CNRU is to encourage translation of basic research to patient care. To this end the CNRU encourages information exchange and collaboration. It supports research cores that bring nutrition investigators together to discuss their work. It supports a seminar series to bring in outside nutrition scientists to speak to the Vanderbilt nutrition community.

Digestive Disease Research Center Division of Gastroenterology

The Digestive Disease Resear ch Center (DDRC) is a multidisciplinary center at Vanderbilt University Medical Center developed to serve a number of purposes. The center pr omotes digestive diseases-related research in an integrative, collaborative and multidisciplinary manner. In addition to enhancing the basic r esearch capabilities of established DDRC investigators, the center attracts investigators not involved in digestive diseasesrelated research to pursue these lines of investigation, in order to develop and implement programs for training and establishment of young investigators in digestive diseases-r elated research and facilitate the transfer of basic research findings to the clinical area.

Frist Nursing Informatics Center

The Frist Nursing Informatics Center is housed on the second floor of Frist Hall. Faculty, staff and student support is provided for various informatics applications, including handheld devices, clinical log software, use of Blackboard (web-based course template system), survey design, and other knowledge building tools. In addition, a computer lab environment supports online learning activities with additional lab machines available for online testing.

General Clinical Research Center

The Clinical Research Center (CRC) is a 21-bed unit located in Medical Center North. Its objectives are to encourage and support clinical research into the cause, pr ogression, prevention, control, and car e of human disease. It fulfills these objectives by cr eating a controlled environment for studies of normal and abnormal body function. The CRC provides space, hospitalization costs, laboratories, equipment, and supplies for clinical research by any qualified member of the faculty of any medical school de partment. The common resources of the CRC support all disciplines, with particular emphases on nutrition, oncology, neurology, cardiology, clinical pharmacology, endocrinology, gastroenterology, hematology, and diabetes. The CRC is supported by a grant fr om the National Center for Research Resources and also serves as a resource for teaching students, a site for research in the methodology of patient car e systems, and apprentice-ship for young clinical investigators.

George M. O'Brien Renal Center

The objective of the Nephr ology Center is to contribute to the understanding of pathogenic mechanisms leading to pr ogressive nephron destruction in the kidney. Investigators from the departments of medicine, pediatrics, surgery, cell biology, pharmacology, and pathology bring a multidisciplinary approach to bear on specific mechanisms leading to glomerular and tubular dysfunction and progressive glomerular destruction. Center funding is derived primarily fr om the National Institutes of Health grant entitled "Biology of Progressive Nephron Destruction."

Informatics Center

The Informatics Center at Vanderbilt functions as a highly effective system of people, processes and technology working at all levels of the medical center to improve healthcare using information technology and communication to change the face of health care to provide the best care, education, and research possible.

Institute for Experimental Therapeutics

The Institute for Experimental Therapeutics builds on V anderbilt's internationally recognized strengths in human pharmacology. The major missions of the Institute ar e to investigate mechanisms underlying variability in drug actions in humans, and to translate those results into more effective use of available dr ugs and the development of impr oved drug therapies.

Institute for Global Health

The Institute for Global Health fosters interdisciplinary research, teaching, and service activities linked to health and/or development in r esource-limited settings of the developing world. The Institute helps strengthen and sustain the inter ests and activities of the V anderbilt community by:

- Facilitation of international contacts for program development and training
- Advocacy for better equity in global health investments
- Assistance in securing resources for international activities
- Standardization and facilitation of overseas administrative approaches
- Improved communication through grand rounds, seminars, and discussion forums
- Active partnerships with institutions in the U.S. and abroad that share the Institute's goals and wish to partner with Vanderbilt faculty, staff and students.

By facilitating the involvement, development, and growth of collaborations aimed at addressing problems in resource- limited settings, the Institute expects Vanderbilt itself to be enriched in its diversity and sensitivity to the global challenges in health and development. By serving as a facilitating body for expanding the activities of individual scientists and departments across the V anderbilt campus, the Institute expects to aid multidisciplinary research efforts in diseases of poverty, tropical climes, and health disparities.

Elizabeth B. Lamb Center For Pediatric Research

The Elizabeth B. Lamb Center is dedicated to research in infectious diseases of children. The center is an interdisciplinary research unit combining inter ests in infectious diseases, immunology , micr obiology, and pathology. It is located within the Division of Pediatric Infectious Diseases. The primary mission of the Lamb Center is to foster basic biomedical r esearch with the goal of developing new appr oaches for the prevention and treatment of childhood infectious diseases.

Mass Spectrometry Research Center

The five ar eas that comprise the Mass Spectr ometry Research Center Research and Development, MS Cor e Service, Pr oteomics, Serum and Biofluids Core, and Bioinformatics provide the local research community with world-class instr umentation and collaborative support of cuttingedge research in the medical and bioscience fields. The Research & Development Laboratory is focused on the development of new mass spectrometry and data analysis techniques that can be applied to pr oblems of medical significance. The Mass Spectr ometry Service Laboratory is an advanced shared instrument facility. The MS Core Service provides cost effective, state-of-the-art instrumentation to students, fellows and faculty for identification and str uctural analysis of biological molecules and for qualitative and quantitative assays of dr ugs and metabolites in physiologic fluids. The Proteomics Lab provides assistance with or participation in proteomic studies. The T issue and Biofluids Cor e Laboratory direct pr oteome pr ofiling and pr otein imaging of intact tissues by MALDI-MS. The Core also provides proteome profiling of serum, plasma, and other biofluids by MALDI-MS and analysis of biofluid poteome fractions by "shotgun" LC-MS-MS methods. The newly established Bioinformatics Group develops new algorithms, software, and database tools for analysis of mass spectrometry data for proteomics and other applications within the MSRC. This group interacts with faculty in the Developments of Biomedical Informatics and Biostatistics, bringing together new analytical technologies with computational and statistical appr oaches to lar ge complex datasets in biomedical research.

Skin Diseases Research Center

The Skin Diseases Research Core Center at Vanderbilt University is an NIH/NIAMS-funded center with the mission of pr omoting skin-related research among both basic and clinical investigators. Or ganized within the Dermatology Division, this center involves investigators and core laboratories from multiple other ar eas. This center supports Cor e Laboratories in Phenotype Analysis, Morphology and molecular genetics. Pilot & feasibility projects are awarded for investigators new to skin-r elated research or for novel studies by established cutaneous researchers. Inquiries may be directed to the SDRCC.

Vanderbilt Addiction Research Center

The Vanderbilt Addiction Center provides the academic focus within Vanderbilt University for r esearch, education, and clinical car e activities related to the pathogenesis, pr evention, and tr eatment of alcohol and other drug abuse and dependence. VAC represents an interdepartmental network of investigators and clinicians fr om the Schools of Medicine, Nursing, and Engineering, the College of Arts and Science, and Peabody College. Investigators and clinicians work individually and in collaboration with other faculty members. V AC identifies important r esearch opportunities, assists investigators in identifying collaborators within and outside Vanderbilt, and facilitates research by providing a forum for interdisciplinary discussions among clinical and basic scientists.

Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences

The Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences was created in 1997 to fill a need for ear, nose and throat doctors and hearing and speech therapists to work side by side for the benefit of their patients with communication and otolaryngological diseases and disor ders. The center is composed of the V anderbilt Department of Hearing and Speech Sciences (formerly the Bill Wilkerson Center) and the Vanderbilt Department of Otolaryngology. The Center of fers diagnosis and treatment for a wide range of conditions that af fect hearing, speech, language and voice pr oduction, as well as over twenty r esearch laboratories addressing basic and applied issues in Otolaryngology and Hearing and Speech Sciences.

The Vanderbilt Brain Institute

The Vanderbilt Brain Institute unites campus-wide neur oscience to facilitate interdisciplinary research, training and public outreach. The VBI's mission is to:

- be a communication center for transinstitutional neuroscience
- advance neuroscience educational initiatives
- spearhead fund-raising in interdisciplinary research and training
- coordinate public relations and community outreach programs

Vanderbilt Center for Evidence-based Medicine

The mission of the VCEBM is to promote understanding and adoption of evidence-based medicine. In V anderbilt University Medical Center, VCEBM is responsible for coordinating journal clubs and clinical department efforts to adhere to evidence-based practice. In the School of Medicine, it is r esponsible for classr oom instruction and case study assisting students in the development of evidence-based practice core competence. It is also a research center funded through grants from public and private organizations. Recent investigations include the impact of pay for performance programs in incr eased adherence to evidence-based practices by hospitals and a national study of consumer understanding of evidencebased medicine. Finally, VCEBM conducts workshops for hospitals and medical leaders on optimal ways to achieve clinical transformation through evidence-based practices.

Vanderbilt Center for Stem Cell Biology

The mission of the V anderbilt Center for Stem Cell Biology is to perform basic r esearch necessary to learn how to pr oduce new cell-based treatments from embryonic stem cells. T o do this, it is necessary to first learn more about the biology of stem cells and how to dir ect their differentiation towards specific fates. The Vanderbilt Center for Stem Cell Biology is home for the Coor dinating Center for the Beta Cell Biology Consortium. A major goal of this consortium of scientists is to learn how to make pancreatic beta cells from embryonic stem cells. If achieved, this would provide a new cell-based therapy for the treatment of diabetes.

Vanderbilt-Ingram Cancer Center

The Vanderbilt-Ingram Cancer Center is Tennessee's only Comprehensive Cancer Center designated by the National Cancer Institute and one of only 39 nationwide. This designation, the highest ranking awarded cancer centers by the world's for emost authority on cancer, recognizes research excellence in cancer causes, development, tr eatment and pr evention, as well as a demonstrated commitment to community education and outreach. In addition to pr oviding the most sophisticated cancer car e available and mor e than 150 of the most pr omising therapies still under investigation, Vanderbilt-Ingram Cancer Center of fers the r egion's only Family Cancer Risk Service, its first compr ehensive Breast Diagnostic Center, its most complete Pain and Symptom Management Pr ogram and its only Cancer Information Program staffed by a master's trained oncology nurse and linked to the National Cancer Institute. Vanderbilt-Ingram Cancer Center of fers its clinical trials in hometowns thr oughout Tennessee, Kentucky, Alabama and Georgia through its Affiliate Network of more than a dozen hospitals.

Vanderbilt Institute of Chemical Biology

The Vanderbilt Institute of Chemical Biology (VICB) is a trans institutional initiative between the College of Arts and Science and the School of Medicine. The mission of the VICB is to promote research and education in the application of chemistry to important biological problems. Strong basic science programs and outstanding research and clinical centers exist at Vanderbilt that focus on understanding the molecular basis of disease. As these molecular studies increase our understanding, application of the tools of chemistry (e.g., synthesis, analysis, structure-activity) can be used to design and develop new agents to detect, troughput screening, chemical synthesis, antibody generation, and bioanalytical nuclear magnetic roughput screening, chemical sin drug discovery and proteomics.

Vanderbilt Institute for Integrative Genomics

The Vanderbilt Institute for Integrative Genomics is a trans institutional initiative to foster use of genomic approaches for understanding the biology of disease. Genomics is the term applied to a broad array of scientific paradigms aimed at determining how the genome of an organism defines its physiological and pathological conditions. The goal of this institute is to harness the full power of genomics by integrating this emer ging field with more traditional as well as other new scientific disciplines. The institute strives to bring the science of studying genomes into phase with existing experimental paradigms in developmental biology , vascular biology, cancer biology, genetics, car diovascular medicine, neur oscience and other fields. This initiative is designed to capitalize on institutional strengths in four pecific areas: functional genomics/model organism disease models, cancer genetics, epigenetics/chromatin biology, and computational genetics. Integrative Genomics interfaces str ongly with the Zebrafish Initiative funded by the Academic Venture Capital Fund, as well as as other existing programs.

Goals include strategic faculty recruitment, a seminar series highlighting innovative appr oaches to obtaining or using genomic information, and support of strategic core facilities to enable cutting-edge research.

The Vanderbilt University Institute of Imaging Science

The Vanderbilt University Institute of Imaging Science is a universitywide interdisciplinary initiative that brings together scientists whose interests span the spectrum of imaging research – from the underlying physics of imaging techniques to the application of imaging tools to address problems such as understanding brain function. The new Institute has a cor e program of research related to developing new imaging technology based on advances in physics, engineering, and computer science. The Institute promotes applied research in collaboration with biomedical scientists and physicians who have inter esting questions that imaging can addr ess. In addition to high-field MRI and MR spectroscopy in human subjects, the Institute offers state-of-the-art options for small animal imaging.

Women's Reproductive Health Research Center

The Women's Reproductive Health Research Center at Vanderbilt was established in 1999 with principal funding fr om the National Institute of Child Health and Human Development as part of the Specialized Cooper ative Centers Program on Reproduction Research. This center's program was established to promote clinically focused research programs at institutions that possess r esearch strength in both basic science and clinical medicine. At Vanderbilt, the center has developed a pr ogram that is broadly focused on the pr omotion of r eproductive health by incr easing understanding of normal reproductive biology as well as the dysfunction associated with diseases such as abnormalities of pr egnancy, dysfunctional uterine bleeding, endometriosis and cancer. In addition to support from the National Institutes of Health, the center receives substantial support from the Endometriosis Association for an international research and training program in endometriosis r esearch. This training pr ogram supports collaborations among basic and clinical scientists within the multidisciplinary research environment at Vanderbilt with a focus on the car e of women with endometriosis and associated diseases. The over -arching goal of the center is to move scientific discoveries of reproductive disease from bench to bedside to improve the health care of women.



Courses of Study

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School of Medicine Departments

Anesthesiology Biochemistry **Biomedical Informatics Biostatistics** Cancer Biology Cell and Developmental Biology **Emergency Medicine** Family Medicine Hearing and Speech Sciences Medical Education and Administration Medicine Microbiology and Immunology Molecular Physiology and Biophysics Neurology Obstetrics and Gynecology **Ophthalmology and Visual Sciences** Orthopaedics and Rehabilitation Otolaryngology Pathology Pediatrics Pharmacology Preventive Medicine Psychiatry Radiation Oncology Radiology and Radiological Sciences

SURGICAL SCIENCES

General Surgery Cardiac Surgery Neurological Surgery Oral and Maxillofacial Surgery Pediatric Surgery Plastic Surgery Thoracic Surgery Urologic Surgery

INTERDISCIPLINARY COURSEWORK

Anesthesiology

INTERIM CHAIR Michael S. Higgins

PROFESSORS EMERITI M. Lawrence Berman, John J. Franks, Joanne Lovell Linn, Bradley E. Smith

- PROFESSORS John T. Algren, Jeffrey R. Balser, James Michael Berry, Eric Delpire, Jayant K. Deshpande, John Watson Downing, C. Lee Parmley, Kevin Strange, Matthew Weinger
- ASSOCIATE PROFESSORS Frederick E. Barr, Curtis L. Baysinger, Jill K. Boyle, Stephen Bruehl, Kevin B. Churchwell, John G. D'Alessio, Brian S. Donahue, Shannon L. Hersey, Michael S. Higgins, Steve A. Hyman, Benjamin W. Johnson, Jr., Ira S. Landsman, Thomas C. Lewis, Addison K. May, Ray Paschall, Jr., Neal R. Patel, Stewart N. Perlman, Michael G. Richardson, Ann Walia, Garry V. Walker

ADJUNCT ASSOCIATE PROFESSORS David Dwight Alfery, Janice M. Livengood,

ASSISTANT PROFESSORS Arna Banerjee, Michelle Margaret Barnes, John Allan Barwise, Meera Chandrashekar, Kevin P. M. Currie, Jerod Denton, Letitia Jane Easdown, Alexander Fisher, Clark H. Galbraith, Marek Grzeszczak, Stephen R. Hays, Alexander K. Hughes, Adrian A. Jarquin-Valdivia, Paulette M. Johnson, Sabina Kupershmidt, Ellen M. Lockhart, Stephanie Mouton-Reed, Richard M. Nass, Nancy O'Dell, Ramachander Pai, Pratik Pandharipande, Mias Pretorius, James Ramsey, Vidya Rao, Venkatramanan Shankar, Silvio Sitarich, Jason Slagle, Heidi Smith, Kenneth G. Smithson, Paul J. St. Jacques, Mary B. Taylor, Prakash C. Viswanathan, Lucia Daiana Voiculescu, Mirjana Vustar-Leidy, Gina Whitney

ASSISTANT PROFESSORS OF CLINICAL Clifford Bowens, Ladd Campbell, Seema Deshpande, Susan Eagle, Alexander Fisher, Shannon Kilkelly, Sandra Lowe, Murali Mamidi, Michael A. Pilla, Matthew Adam Roberts, Kevin Saunders, John Steven, Carl William Stanberry, Annemarie Thompson, Dila Vuksanaj, Roslynn Elizabeth Webb

RESEARCH ASSISTANT PROFESSORS Daniel J. France, Christina I. Petersen

ADJUNCT ASSISTANT PROFESSORS Henry W. Baggett, Barry Brasfield, Sukdeb Datta, Claude L. Ferrell, Vijay Rani Makrandi, Thomas F. Shultz, Michael J. Stabile, Geeta P. Wasudev

VISITING ASSISTANT PROFESSOR Caroline Cao

ASSOCIATES Stephen T. Blanks, Raymond F. Johnson

INSTRUCTORS Sean Costabile, David Norris, Donald Pierce, Sally A. Watson

RESEARCH INSTRUCTOR Franck Potet

CLINICAL INSTRUCTOR Jean-Terese Fischer, Amy Lynch

ASSISTANTS Robert A. Crawford, Nimesh Patel, Neal W. Sanders, John Shields, Joshua L. Yarbrough

THE Department of Anesthesiology provides lectures and of fers a two-and-a-half-week selective for third-year students on aspects of anes - thesiology within the Surgery clerkship. Fourth-year elective courses ar e offered in the pharmacology of anesthesiology, as well as a clerkship that includes operating room experience in the conduct of anesthesia.

Biochemistry

CHAIR Michael R. Waterman

PROFESSORS EMERITI Harry P. Broquist, Frank Chytil, Stanley Cohen, Leon W. Cunningham, Benjamin J. Danzo, Willard R. Faulkner, Robert A. Neal, Oscar Touster, Benjamin J. Wilson
PROFESSORS Richard N. Armstrong, Richard Breyer, Jorge H. Capdevila, Richard Caprioli, Graham F. Carpenter, Walter J. Chazin, Martin Egli, F. Peter Guengerich, David L. Hachey, Carl G. Hellerqvist, Scott W. Hiebert, Billy Gerald Hudson, Tadashi Inagami, Daniel Christopher Liebler, Lawrence J. Marnett, David E. Ong, Neil Osheroff, John A. Phillips III, Jennifer A. Pietenpol, Ned Allen Porter, Charles R. Sanders II, Samuel Andrew Santoro, Conrad Wagner, Michael R. Waterman
VISITING PROFESSORS Tsutomu Shimada
RESEARCH PROFESSORS Dean Myles, Marcia E. Newcomer
ASSOCIATE PROFESSORS Bruce D. Carter, Thomas N. Oeltmann, James G. Patton, Virginia L. Shepherd
RESEARCH ASSOCIATE PROFESSORS Raymond L. Mernaugh, Takaaki Senbonmatsu ASSISTANT PROFESSORS David Cortez, Diane S. Keeney, Andrew J. Link, Zu-Wen Sun,

Munirathinam Sundaramoorthy RESEARCH ASSISTANT PROFESSORS Pierre Chaurand, Gerald D. Frank, David B.

Friedman, Amy-Joan Lorna Ham, Joel M. Harp, Norio Kagawa, Zigmund Luka, Laura Sera Mizoue, Jeffrey Kyle Myers, Larissa M. Podust, Jarrod A. Smith, Oleg Yu Tikhomirov, Md. Uddin

RESEARCH INSTRUCTORS M. Calcutt, Dale Shannon Cornett, Eric Dawson, Liping Du, Helen Everts, Galina I. Lepesheva, Hong-Jun Liao, James K. Mobley, Rekha R. Pattanayek, Michelle L. Reyzer, Genyan Yang, Bin Zhao, Lisa J. Zimmerman ADJUNCT INSTRUCTOR Jeremy Lynn Norris

ASSISTANTS Karen C. Angel, Philip J. Kingsley, Li Lei, Yufen Wang

THE Department of Biochemistry offers to first-year students basic information on the chemistry of living or ganisms. Electives available to students at all levels include such topics as nutritional biochemistry; toxicology; fundamentals of human nutrition; advanced biochemistry; genes and their r egulation; clinical biochemistry; lipid chemistry , metabolism and transport; nutrition r ounds; chemical mechanisms of enzyme catalysis; and r eproductive biology. Research experience in biochemistry and nutrition is available to fourth-year students. The department offers as electives in the first, second, and fourth years a biochemistry seminar and a course in special problems in nutrition. A preceptorship in biochemistry is also offered in the fourth year.

Required Courses

BCHM-5012. Biochemistry. This course is designed to familiarize the student with the structure and function of biomolecules and to provide a general understanding of life processes at the molecular level. Topics to be covered include the chemistry, metabolism, and cellular functions of amino acids, proteins, nucleic acids, carbohydrates, lipids, and vitamins. Lectures are supplemented with clinical correlation sessions and small group conferences that serve to integrate and broaden course material and to relate molecular processes to the study of human disease. FALL. Osheroff.

BCHM-5015. Advanced Biochemistry. Offered in place of Biochemistry 5012 for medical students with demonstrated advanced standing in Biochemistry. Selected topics are presented with particular focus on the biochemical/molecular mechanisms relevant to human physiologic and pathophysiologic processes. Lectures are supplemented with small group conferences that serve to integrate and broaden course material and to relate molecular processes to the study of human disease. FALL. Ong.

Biomedical Informatics

CHAIR Daniel R. Masys

PROFESSORS Mark E. Frisse, Nunzia B. Giuse, Nancy M. Lorenzi, Daniel R. Masys, Randolph A. Miller, John A. Morris, Judy G. Ozbolt, Joe B. Putnam, William W. Stead, Elizabeth Weiner, Matthew B. Weinger

ASSOCIATE PROFESSORS Steven Holloway Brown, Dario A. Giuse, Stanley E. Graber, Michael S. Higgins, Kevin B. Johnson, Neal R. Patel, Edward K. Shultz

RESEARCH ASSOCIATE PROFESSOR Cynthia S. Gadd

ASSISTANT PROFESSORS Constantin Aliferis, Dominik Aronsky, Erik M. Boczko, Jim N. Jirjis, Shawn E. Levy, Asli Ozdas, Josh Favrot Peterson, Samuel Trent Rosenbloom, W. Anderson Spickard III, John Malotte Starmer, Ioannis Tsamardinos, Lemuel Russell Waitman, Stuart T. Weinberg

ASSISTANT PROFESSORS Jeffrey S. Gordon, William M. Gregg, David L. Tabb, Patricia A. Trangenstein, Terri Tiechua Ni

ADJUNCT ASSISTANT PROFESSOR Douglas A. Talbert INSTRUCTOR Fern FitzHenry

THE Department of Biomedical Informatics was established in 1993 to provide an academic base for those who engage in the study , invention, and implementation of structures and algorithms to improve communication, understanding, and management of biomedical information. An interdisciplinary seminar series brings together concepts fr om biomedical engineering, biometry, computer science, decision science, health policy , and library science. Electives offer an opportunity for independent study in one of these areas.

Biostatistics

CHAIR Frank E. Harrell, Jr.

PROFESSORS William D. Dupont, Frank E. Harrell, Jr., Yu Shyr

RESEARCH PROFESSOR Irene Feurer

VISITING RESEARCH PROFESSOR Don Hong

RESEARCH ASSOCIATE PROFESSOR Rafe M. Donahue

ASSISTANT PROFESSORS Patrick G. Arbogast, D. Dean Billheimer, Qingxia Chen, Leena Choi, Robert A. Greevy, Sebastian Hanense, Tatsuki Koyama, Chun Li, Bonnie LaFleur, Jonathan S. Schildcrout, Bryan E. Shepherd, Lily Wang, Chang Yu, Chuan Zhou RESEARCH ASSISTANT PROFESSORS Ming Li, Ayumi Kamina Shintani ADJUNCT ASSISTANT PROFESSOR Bojuan Barbara Zhao SENIOR ASSOCIATE Daniel W. Byrne ASSOCIATE J. William Renfrew ASSISTANTS Chiu-Lan Chen, Tebeb Gebretsadik, Huiyun Wu, Yuwei Zhu

BIOSTATISTICS is a basic science of biomedical research. Our vision for biostatisticians in the department is that they become statistical scientists who are on the forefront of biomedical research and who wish to contribute to the body of knowledge in medicine. In the role of statistical scientist, collaboration with medical researchers is of major importance, as is curiosity about diseases, treatments, patient outcomes, and biology. Our faculty ar e also independent researchers in the methods of biostatistics.

Cancer Biology

CHAIR Lynn M. Matrisian

PROFESSORS Carlos L. Arteaga, R. Daniel Beauchamp, Stephen J. Brandt, David P. Carbone, Raymond N. DuBois, Jr., Wa'el El-Rifai, Michael L. Freeman, Dennis E. Hallahan,

Lynn M. Matrisian, Robert J. Matusik, Harold L. Moses, Cathleen C. Pettepher, Vito Quaranta, Albert B. Reynolds, J. Ann Richmond, Mary M. Zutter

RESEARCH PROFESSORS James OI McIntyre, Robert H. Whitehead

ADJUNCT PROFESSOR John J. Caterina

VISITING PROFESSOR Alexander R. A. Anderson

ASSOCIATE PROFESSORS Sarki A. Abdulkadir, Timothy S. Blackwell, Ravi S. Chari, Jin Chen, Sanjoy K. Das, Walter Gray Jerome III, Peng Liang, Josiah Ochieng, Richard M.

Peek, Jr., Elizabeth Yang, Wendell Gray Yarbrough

RESEARCH ASSOCIATE PROFESSOR Nagendra S. Ningaraj

ASSISTANT PROFESSORS Constantin Aliferis, Robert L. Caldwell, Thao P. Dang, Pran Krishna Datta, Utpal P. Davé, Mark P. de Caestecker, Josiane Eid, Moneeb Ehtesham, Guo-Huang Fan, Simon William Hayward, Susan Kasper, Dineo Khabele, P. Charles Lin, Pierre P. Massion, Ambra Pozzi, Jeffrey Roser Smith, Anna Spagnoli, Cristina I. Truica, Alissa M. Weaver, Fiona Elizabeth Yull, Roy Zent, Sandra S. Zinkel

RESEARCH ASSISTANT PROFESSORS Joseph M. Amann, Jonathan Baogang, Lourdes Estrada, Barbara Mary Fingleton, Lisa J. McCawley, Shimian Qu, Robbert Jacobus C. Slebos

ADJUNCT ASSISTANT PROFESSORS Gianluigi Giannelli, Naohiko Koshikawa ADJOINT ASSISTANT PROFESSOR William M. Grady RESEARCH INSTRUCTORS Jiging Sai, Jinming Yang

ADJOINT INSTRUCTOR Ramkumar Menon

THE Department of Cancer Biology was established in 2000 and is responsible for instruction in histology as part of the r equired curriculum for first-year medical students. An opportunity for independent study in the area of basic cancer research is provided.

Cell and Developmental Biology

CHAIR Susan Rae Wente

PROFESSORS EMERITI Alvin M. Burt III, James A. McKanna, Marie-Claire Orgebin-Crist
PROFESSORS David M. Bader, H. Scott Baldwin, R. Daniel Beauchamp, Stephen J. Brandt, David P. Carbone, Vivien A. Casagrande, Robert J. Coffey, Jr., Arthur Frederick Dalley II, Sudhansu K. Dey, Raymond N. DuBois, Ford F. Ebner, James Richard Goldenring, Kathleen L. Gould, Steven K. Hanks, Stephen R. Hann, Jon H. Kaas, Robert J. Matusik, Michael H. Melner, David M. Miller III, Lillian B. Nanney, Eric G. Neilson, Jeanette J. Norden, Gary E. Olson, John S. Penn, Cathleen C. Pettepher, D. Brent Polk, J. Ann Richmond, Roland W. Stein, Susan Rae Wente, Christopher V. E. Wright
RESEARCH PROFESSOR Robert Whitehead

ADJUNCT PROFESSORS David G. Greathouse, John Steven Halle, Jane Y. Wu

ASSOCIATE PROFESSORS Timothy S. Blackwell, Jin Chen, Chin Chiang, David I. Greenstein, Christopher F. J. Hardy, Antonis K. Hatzopoulos, Ela W. Knapik, P. Charles Lin, William Evans Russell, Linda Sealy, Elizabeth Ching-Wen Yang

ADJUNCT ASSOCIATE PROFESSOR Robert C. Bone

ASSISTANT PROFESSORS Byeong J. Cha, Mark P. deCaestecker, Daniela Drummond-Barbosa, Guoqiang Gu, Raul J. Guzman, Stacey S. Huppert, Susan Kasper, Irina N. Kaverina, Anne K. Kenworthy, Tsutomu Kume, Ethan Lee, Laura Anne Lee, Anna L. Means, James E. Sligh, Jr., E. Michelle Southard-Smith, Matthew J. Tyska, Roy Zent, Tao Peter Zhong

RESEARCH ASSISTANT PROFESSORS Jeffrey L. Franklin, Susan Kasper, Subir Kumar Nag Das, Ying Qi

RESEARCH INSTRUCTORS Zhaoliang Li, Jin-Long Yang

THE Department of Cell and Developmental Biology is responsible for instruction in histology, gross anatomy, and the human nervous system as part of the required curriculum for first- and second-year medical students. Elec tive courses are offered by the department in ar eas of reproductive biology, advanced neurobiology, surgical anatomy, neurochemistry, and cell biology.

Required Courses

CABI 5010. Cell and Tissue Biology. *Histology.* First year. This course is designed to give students a familiarity with the properties of cells, in particular their interactions with one another as components of the tissues and organs of the body. Emphasis is placed on the correlates between structure and function at both the light and electron microscopic levels as a basis for understanding the physiological and biochemical activities of cells and tissues. SPRING. Pettepher.

Web site: http://www.mc.vanderbilt.edu/histology

ANAT-5020. Gross Anatomy. First Year. This course focuses on the macroscopic structure of the human body and anatomic principles, which provide the basis for physical examination, diagnosis, and often therapy in clinical practice. The course includes multi-media presentations by faculty, which supplement the experiential learning through regional cadaveric dissection, on which the course is centered. An emphasis is placed on gaining an understanding of the autonomic nervous system and experience with cross-sectional and dimensional anatomy as it relates to current techniques of medical imaging. Student team presentations of anatomical clinical correlation are required. The course incorporates development (embryology) of the organs and systems studied. FALL. Dalley and staff.

ANAT-5040. Medical Neurosciences. The purpose of this course is to provide secondyear medical students and graduate students with a solid understanding of the organization of the human central nervous system. The course attempts to integrate basic information from neuroanatomy, neurophysiology, and neurochemistry. Students will also be introduced to the most up-to-date research currently being conducted in neurobiology, with a special emphasis on research with potential clinical significance. Clinical material is provided by patient presentations, discussions of the impact of neurological disease on patients and their loved ones, and by an analysis of pathological cases. Two to four hours lecture and four hours of laboratory per week. FALL. Norden.

Emergency Medicine

CHAIR Corey M. Slovis

- PROFESSORS Thomas J. Abramo, Eric Martin Chazen, Jeremy J. Kaye, Corey M. Slovis, Keith Wrenn
- VISITING PROFESSORS Paul S. Auerbach, Ron M. Walls
- ASSOCIATE PROFESSORS Andrea C. Bracikowski, Timothy G. Givens, Robin R. Hemphill, E. Paul Nance, Jr., Lawrence B. Stack, Seth W. Wright
- ASSISTANT PROFESSORS Donald Hayes Arnold, Dominik Aronsky, Tyler W. Barrett, Richard S. Belcher, Marion C. berg, James F. Bihun, John J. Block, Stephen J. Cico, Joan Margaret Collier, Stephanie H. Eidson, Natasha B. Halasa, Jin H. Han, Daniel P. Himes, Ian D. Jones, William E. Lummus, Jeffry P. McKinzie, Marc Mickiewicz, Kenneth Hugo Palm, Doris Elise Powell-Tyson, John Paul Rohde, Steven T. Riley, Sally Santen, Gary R. Schwartz, Charles M. Seamens, Donna L. Seger, Clay B. Smith, Shannon B. Snyder, David S. Taber, R. Jason Thurman, Steven John White

ASSISTANT CLINICAL PROFESSORS Paul M. Bergeron, Anna H. Bradham, Brian R. McMurray, Steven R. Meador, Wayne E. Moore, John Hannon Proctor

SENIOR ASSOCIATE Judy Jean Chapman

ASSOCIATES Kimberly A. Arnold, Kenneth L. Biedenkapp, Jeff Norton, David H. Sewell, Deania M. Towns

INSTRUCTORS Christopher L. Dunnahoo, Geoffrey E. Hayden, Gregory H. Jacobson, Alan L. Mannheimer, Timothy Preston Myers, Jill Cole Obremskey

CLINICAL INSTRUCTORS James R. Hanley, David W. Lawhorn, J. Raymond Pinkston

THE Department of Emergency Medicine offers an introductory elective course for first- and second-year students to acquaint them with emergency medical services, including ambulance ride-alongs and observation time in the Emergency Department (ED). Additionally, there is a required fourth-year emergency medicine course, one month in length, consisting of 20 to 25 hours a week of lectures and 12 to 15 eight-hour clinical shifts, either in the main ED at Vanderbilt, the Pediatric ED at Vanderbilt, or the ED at St. Thomas Hospital.

Required Course

EM-5950. Clinical Emergency Medicine. This required four-week clerkship introduces the senior medical student to the principles of emergency care. Nearly every physician, no matter what specialty, will interact with the Emergency Department or will encounter patients with an emergency medical problem. This course is designed to ensure that the graduating student is exposed to these principles including ACLS training and certification, ECG reading, and acid-base interpretation. Students will attend 3-5 hours of daily interactive conferences each weekday. Lab sessions will review airway skills, splinting, BLS, ACSS mega-code and other emergency procedures.

Students independently interview and examine Emergency Department patients with a variety of complaints. They will work one-on-one primarily with faculty to formulate treatment plans. Each student will be assigned 12 clinical shifts during the month, including some night and weekend shifts. Students will have shifts at three different Emergency Departments, and must be able to provide their own transportation. This is a time-intensive clerk-ship, and students should be available for the entire four weeks. A student leave pass will be required for any absences.

Prerequisite: Fourth-year student. The course may be taken in June after early completion of third year, with approval by the course directors. Santen and Slovis.

Family Medicine

DIRECTOR Roger J. Zoorob PROFESSORS Frederick A. Ernst, Roger J. Zoorob CLINICAL PROFESSOR William MacMillan Rodney ASSISTANT PROFESSORS Gene Alan Hannah, Ilene N. Moore ASSISTANT CLINICAL PROFESSORS Allen S. Craig, Timothy F. Jones INSTRUCTORS Elizabeth B. Burgos, Asma Khalid, James R. MacDonald, Scott R. Parker, Ruth Carr Stewart, Joanna H. Whitman, Arthur E. Williams CLINICAL INSTRUCTORS Gregg P. Allen, Charles A. Ball, Elizabeth Harlan Crowe, Douglas

Gaither, Shawn N. Gentry, James Norris Johnson, Earl L. Kelly, Charles T. Marable, Tony L. Ross, Alex James Slandzicki

FAMILY physicians are seen as holding pivotal positions to ensure the delivery of compr ehensive and personalized health car e. Twenty-seven percent of all office visits are made to family physicians. Their role, along with other primary care providers, is very important in making the optimal use of health resources. By involvement in training family physicians, medical schools gain the opportunity to develop strategies that improve the relevance of medical education and medical practice in meeting people's health needs.

Required Courses

IDIS-5100. Primary Care Medicine. All fourth-year students will have a four-week unit in an ambulatory primary care setting. Students will chose an experience in outpatient internal medicine, family medicine, or pediatrics. Practice sites include ambulatory medicine or pediatric clinics in the community. Students may also arrange a primary care experience outside of Nashville subject to the approval of the course directors. The clinic experience is supplemented by various conferences and a home health or hospice visit. In addition, all students will complete the core didactic lecture series that includes exercises in problem based learning, role-plays to foster interview skills, and a program in risk management. Prerequisite: Medicine 502, Pediatrics 502, Surg 502. Gigante and Spickard.

Hearing and Speech Sciences

CHAIR Fred H. Bess

PROFESSORS EMERITI Russell J. Love, Judith Rassi, R. Edward Stone, Jr., Robert T. Wertz PROFESSORS Fred H. Bess, Stephen M. Camarata, Edward Gage Conture, D. Wesley

Grantham, Linda J. Hood, Gary P. Jacobson, Howard S. Kirshner, H. Gustav Mueller, Ralph N. Ohde, Robert H. Ossoff

VISITING PROFESSOR Richard W. Woodcock

RESEARCH PROFESSOR Teris K. Schery

ADJUNCT PROFESSORS Michael E. Glasscock III, Linda Jean Hood, Harold R. Mitchell, Eugene C. Nelson

PROFESSOR OF CLINICAL Gary W. Duncan

ASSOCIATE PROFESSORS Daniel H. Ashmead, Gene W. Bratt, Lee Ann C. Golper, David S. Haynes, Gerald B. Hickson, Todd A. Ricketts, Anne Marie Tharpe, Mark T. Wallace

ADJUNCT ASSOCIATE PROFESSORS Charles E. Edmiston, Jr., Judith S. Gravel, Russell Henry Mills

ASSISTANT PROFESSORS Patricia Flynn Allen, Tamala S. Bradham, M. Candice Burger, Mary N. Camarata, William W. Dickinson, Mary Sue Fino-Szumski, David Wade Gnewikow, Corrin G. Graham, Troy Alan Hackett, Sue T. Hale, Devin Lochlan McCaslin, Daniel B. Polley, C. Melanie Schuele, Wanda G. Webb

RESEARCH ASSISTANT PROFESSORS Benjamin W.Y. Hornsby, Alexandra Fonaryova Key ADJUNCT ASSISTANT PROFESSORS Faith Wurm Akin, Linda L. Auther, G. Pamela

Burch-Sims, Bertha Smith Clark, Rebecca M. Fischer, Barbara F. Peek, Amy McConkey Robbins, Deborah Tyson

ASSISTANT CLINICAL PROFESSOR John R. Ashford ADJUNCT INSTRUCTOR Laura Knox

THE Department of Hearing and Speech Sciences offers work leading to the master 's degree in speech-language pathology and hearing or speech science. The Ph.D. degree is offered in audiology, speech-language pathology, and hearing or speech science. In addition, the department offers a professional doctorate of audiology, the Au.D. Information on regulations and requirements for the Ph.D. programs and the master's degrees in speech-language pathology and hearing or speech science may be found in the *Graduate School Catalog*. Information on requirements for the Au.D. program is outlined in the *Medical Center Catalog*. The research, teaching, and clinical programs associated with the Department of Hearing and Speech Sciences are housed in the Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences.

Medical Education and Administration

CHAIR Steven G. Gabbe **PROFESSOR EMERITUS T. Mark Hodges** PROFESSORS G. Roger Chalkley, Vera A. Stevens Chatman, Steven G. Gabbe, F. Andrew Gaffney, Gerald S. Gotterer, Thomas A. Hazinski, George C. Hill, Donald E. Moore, Jr., James W. Pichert, Roxane B. Spitzer ADJUNCT PROFESSOR Deborah C. German VISITING PROFESSORS Dean A. Rosen, Cynthia Turner-Graham ASSOCIATE PROFESSORS Jeffrey C. Andrews, Cornelia Rose Graves, Frederick Kirchner, Jr., Diana Marver, Norman B. Urmy ASSISTANT PROFESSORS Saundrett G. Arrindell, Andrea Baruchin, Warren Ernest Beck, Craig R. Carmichel, Alan E. Christman, Mary Early-Zald, Phyllis Ekdall, Lee Fleisher, Michelle Grundy, Jeff M.S. Kaplan, Paul H. Keckley, Jennifer M. Kissner, John F. Manning, Jr., Chanchai Singhanay McDonald, Martha K. Miers, Bonnie M. Miller, Ilene N. Moore, Stephen B. Moore, David S. Noel, Jack P. Nyiri, David Osborn, Bret L. Perisho, Allison Pingree, Ann H. Price, Doris C. Quinn, Scott Rodgers, Frank Rosato, M. Rhea Seddon, John H. Shatzer, J. Richard Wagers, Jr., Lynn E. Webb ASSISTANT CLINICAL PROFESSOR Roland E. Moore ADJUNCT ASSISTANT PROFESSOR Barbara Clinton ASSOCIATE William R. Rochford ASSISTANT G. Wayne Wood

THE Division of Medical and Educational Administration was established in 1969 to provide an academic base for those who engage in service, education, and r esearch as these support the objectives of the School of Medicine. The division of fers elective courses on subjects r elated to past and present trends in American medical education, the influence of various professional or ganizations and government bodies in medical education, issues in health care at all levels, and the transition to medical practice and medical practice management. Special subject seminars are encouraged.

Medicine

CHAIR Eric G. Neilson

- PROFESSORS EMERITI Fred Allison, Jr., Benjamin J. Alper, F. Tremaine Billings, Thomas G. Burish, Oscar B. Crofford, Jr., Roger M. Des Prez, John M. Flexner, Gottlieb C. Friesinger II, H. Keith Johnson, John S. Johnson, Sanford B. Krantz, Alexander C. McLeod, David N. Orth, Lloyd H. Ramsey, Joseph C. Ross, William D. Salmon, Jr., Raphael F. Smith, Paul E. Teschan, Alexander S. Townes, Richard M. Zaner
- PROFESSORS Carlos L. Arteaga, David M. Bader, Gordon R. Bernard, Italo Biaggioni, William J. Blot, Paul E. Bock, John Dunning Boice, Jr., Mark R. Boothby, Stephen J. Brandt, Matthew D. Breyer, Richard M. Breyer, Nancy J. Brown, Wendy Weinstock Brown,

Raymond F. Burk, Benjamin F. Byrd III, W. Barton Campbell, Jorge H. Capdevila, David P. Carbone, Graham F. Carpenter, Alan D. Cherrington, Brian W. Christman, Larry R. Churchill, Robert J. Coffey, Jr., Richard T. D'Aquila, Stephen Neil Davis, Roy L. DeHart, Robert S. Dittus, Raymond N. DuBois, Jr., J. Stephen Dummer, Sergio Fazio, Jo-David Fine, Agnes B. Fogo, F. Andrew Gaffney, Alfred L. George, Jr., Thomas A. Golper, Alan L. Graber, Daryl K. Granner, John P. Greer, Marie R. Griffin, Kenneth R. Hande, Raymond C. Harris, Jr., Thomas R. Harris, J. Harold Helderman, Billy Gerald Hudson, lekuni Ichikawa, Tadashi Inagami, Harry R. Jacobson, Gordon L. Jensen, David H. Johnson, Allen B. Kaiser, Herman J. Kaplan, Richard B. Kim, Lloyd E. King, Mark J. Koury, Marvin W. Kronenberg, John M. Leonard, Julia G. Lewis, Richard W. Light, MacRae F. Linton, Peter T. Loosen, James E. Loyd, Mark A. Magnuson, Daniel Richard Masys, James M. May, Joseph K. McLaughlin, Clifton Kirkpatrick Meador, Barbara O. Meyrick-Clarry, Randolph A. Miller, Geraldine G. Miller, Jason D. Morrow, Harold L. Moses, John H. J. Nadeau, Eric G. Neilson, John H. Newman, John A. Oates, Neil Osheroff, Harry Lee Page, Jr., John A. Phillips, Theodore Pincus, Alvin C. Powers, David S. Raiford, J. Ann Richmond, L. Jackson Roberts II, David Robertson, Rose M. Robertson, Leslie L. Robison, Dan M. Roden, Bruce J. Roth, Mace L. Rothenberg, Jeffrey N. Rottman, Donald H. Rubin, Martin P. Sandler, William Schaffner, Friedrich G. Schuening, Gerald Schulman, John S. Sergent, James R. Sheller, Virginia L. Shepherd, Xiao Ou Shu, Ghodrat A. Siami, Corey M. Slovis, James D. Snell, Jr., Jeffrey A. Sosman, W. Anderson Spickard, Jr., William W. Stead, Richard S. Stein, William J. Stone, George P. Stricklin, Robert E. Tarone, James Ward Thomas II, Douglas E. Vaughan, Sten H. Vermund, John Randolph Wilson, Lawrence K. Wolfe, Alastair J. J. Wood, Wei Zheng, Sandra S. Zinkel **RESEARCH PROFESSOR Robert H. Whitehead**

- ADJUNCT PROFESSORS Leiv S. Bakketeig, Paolo Boffetta, Maciej S. Buchowski, John W. Christman, Thomas O. Daniel, Raymond M. Hakim, Carolo La Vecchia, Olof Nyren, Jorgen Helge Olsen, James R. Snapper, Henrik Toft Sorensen, John P. Sundberg
- CLINICAL PROFESSORS Robert H. Alford, Robert Seth Cooper, E. William Ewers, Fred Goldner, Jr., Laurence A. Grossman, William L. Moore, Jr., Thomas Guv Pennington, Taylor M. Wray
- ASSOCIATE PROFESSORS Thomas M. Aune, George R. Avant, Joseph Albert Awad, Joey V. Barnett, Jordan D. Berlin, Timothy S. Blackwell, Lewis S. Blevins, Jr., Paul E. Bock, Maurice C. Bondurant, Mark R. Boothby, Alan Stuart Boyd, Jin Chen, Timothy L. Cover, Jose J. Diaz, Jr., Thomas G. DiSalvo, John H. Dixon, Jr., G. Dewey Dunn, Kathleen Mary Egan, Roy O. Elam III, Darrel L. Ellis, E. Wesley Ely, Frank A. Fish, James T. Forbes, Howard A. Fuchs, David Gailani, Stacey Ann Goodman, Stanley E. Graber, David W. Gregory, David W. Haas, Steven K. Hanks, David E. Hansen, Elizabeth Heitman, Carl G. Hellergvist, Scott W. Hiebert, Talat A. Ikizler, Nuhad M. Ismail, Kathy Jabs, Spyros A. Kalams, David Michael Kerins, Douglas S. Kernodle, Ela W. Knapik, John T. Lee, Christopher D. Lind, Samuel R. Marney, Jr., David J. Maron, William H. Martin, Paul L. Moots, Barbara A. Murphy, John J. Murray, Katherine T. Murray, Thomas N. Oeltmann, R. Stokes Peebles, Richard M. Peek, Jr., Robert N. Piana, Michael Karl Porayko, James S. Powers, Stephen Paul Raffanti, Deborah W. Robin, Alan B. Sandler, Richard P. Schneider, Bonnie S. Slovis, Walter E. Smalley, Jr., Michael Lee Smith, Thomas Stasko, C. Michael Stein, Timothy R. Sterling, Charles W. Stratton, Craig R. Sussman, Yi-Wei Tang, Charles B. Thorne, George Edward Tiller, Mark Stephen Wathen, Arthur P. Wheeler, Scott Matthew Williams, James P. Wilson, Steven N. Wolff, Robert J. Workman, Keith Wrenn, Guanging Wu VISITING ASSOCIATE PROFESSOR Hiroyuki Kobayashi

RESEARCH ASSOCIATE PROFESSORS Hui-Fang Cheng, Igor Alexandrovich Feoktistov, Kristina E. Hill, Mohammed Sika, Theodore Speroff, Paul A. Voziyan, Ding-Zhi Wang

ADJUNCT ASSOCIATE PROFESSORS Maria del Pilar Aguinaga, Paul C. McNabb II, Lou Reinisch

- ASSOCIATE CLINICAL PROFESSORS Mark S. Averbuch, Philip D. Bertram, Stanley J. Bodner, James R. Cato, Alan G. Cohen, James P. Fields, Rand T. Frederiksen, Richard W. Garman, Jr., John R. Gibson, Francis W. Gluck, Jr., John Hooper Griscom, Jacques Heibig, Marcus C. Houston, Joseph W. Huston, Henry S. Jennings III, Robert M. Johnson, Robert H. Latham, Lester L. Porter III, Judson E. Rogers, Marvin J. Rosenblum, Sol A. Rosenblum, Dan S. Sanders III, Harrison J. Shull, Jr., Paul R. Stumb, James N. Sullivan, Michael D. Zanolli
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Zhonghua Qi, Doris C. Quinn, Genbin Shi, Ayumi Kamina Shintani, Martha Jane Shrubsole, Heidi J. Silver, Amar B. Singh, Tuulikki Sokka, Narasimhachar Srinivasakumar, Yan Ru Su, Elena E. Tchekneva, Oleg Yu Tikhomirov, Carlos G. Vanoye, Christo Dimitro Venkov, Wanqing Wen, Yuejin Wu, Xiaochuan Xu, Zhixiong Xu, Patricia Gale Yancey, Gong Yang, Li Yang, Tao Yang, Yajun Yi, Michail Zaboikin, Rong Zhang, Yahua Zhang

- ADJUNCT ASSISTANT PROFESSORS John W. Boldt, Jr., Roberto Cruz-Gervis, Michael Hill, Mark Arden Pierce
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- INSTRUCTORS Matthew J. Abbate, Julie A. Bastarache, Chad S. Boomershine, Jeffrey B. Boord, Alexander Jeffrey Brunner, Ingrid J. Chang, Jack W. Coggeshall, Shelley Ellis, Emily M. Garland, William Gregg, Melinda Shaw Henderson, Gwendolyn A. Howard, Jeanette Sison Ilarde, Nancy R. Keller, Peggy L. Kendall, Richard G. Lane, William Edward Lawson, Debra H. McCroskey, Samuel Trent Rosenbloom, Jennifer L. Schuberth, Annemarie Thompson, Laura F. Weikert, Bobby J. White
- RESEARCH INSTRUCTORS Lida A. Anestidou, Smriti Bardhan, Dana M. Brantley-Sieders, Ada Henrike Braun, Hui Cai, Zheng Cao, Rupesh Chaturvedi, Alfredo Gamboa, Paul Gregoli, Xiaoling Jiang, Iordanka Kourteva, Taiji Matsusaka, Tetyana V. Pedchenko, Todd W. Rice, Saba Sile, Ute Ina Schwarz, Muhammad Atif Siddique, Layton Harris Smith, Yinghao Su, Megha H. Talati, Bryan E. Youree, Xianglan Zhang, Weisong Zhou

ADJUNCT INSTRUCTORS John Q. Binhlam, Anna K. Hopla, Christopher C. McClure, Vianne Epino Villaruz

CLINICAL INSTRUCTORS Bradley N. Bullock, William D. Edmondson, Robert M. Hollister, Jeffrey L. Hymes, William H. Pettus, Robert S. Quinn, Howard Lee Salyer, Lucien C. Simpson

ASSISTANTS William H. Swiggart, Julianne Haines Wagnon

THE Department of Medicine of fers four ar eas of r equired course work, two of them in the second year:

Second Year. Two courses: An interdepartmental course which intr oduces sophomore students to the basic laboratory techniques, methods, principles, and procedures of clinical medicine; and a course in the diagnosis of disease and the application of clinical medicine to patient care.

Third Year. Third-year medical students ar e assigned to the medical wards for a ten-week period for an intensive inpatient experience.

Fourth Year. Fourth-year medical students participate in an outpatient experience as well as a selective medical clerkship.

The Department of Medicine has many subspecialty divisions, and a number of different elective programs are available.

Required Courses

MED-5011. Laboratory Diagnosis. This course formally introduces the second-year medical student to the use of laboratory data in solving clinical problems. The course considers the manner in which tests are performed as well as the pathophysiology underlying abnormal test results. However, the emphasis is on the use of laboratory data in clinical problem solving. The student is expected to gain proficiency in using a logical approach to problem solving across a broad range of clinical problems. Specifically, the student will become proficient in defining a clinical problem, determining what information is needed to solve the problem, and then using the necessary information to either establish a diagnosis or to determine what further information is needed. Basic considerations regarding therapy will also be presented. Among the areas which are covered are anemia, disorders of white blood cells, coagulation and blood banking, limits of testing, kidney disorders including electrolytes and acid-base disorders, gastroenterology, rheumatology, body fluids, genetics, cardiology, and endocrinology. The course is taught primarily in full class lectures. SPRING (first half). Stein.

MED-5012. Physical Diagnosis. The introduction to clinical medicine course for second year students. Emphasizes interviewing skills, acquiring a medical database, and performing a comprehensive physical examination. Utilizes a mentor system with groups of four students assigned to two faculty tutors who will guide them through history taking, patient examinations, and write-ups. Includes lectures, practical sessions, and patient encounters.

Web site: http://medicine.mc.vanderbilt.edu/q4_studtrainprog_pdc.cfm. SPRING. Leonard.

MED-5013. Introduction to Clinical Nutrition. A multidisciplinary course that is intended to provide students with a practical knowledge of clinical nutrition that can be applied in future patient care. Vulnerable populations are described throughout the life cycle. Basic nutrition assessment and intervention techniques are presented. Useful nutrition resources are highlighted for clinicians and the public. The crucial role of nutrition in disease prevention and management are illustrated. SPRING (first half, second half [3 weeks]). Jensen.

Web site: http://mc.vanderbilt.edu/vchn

MED-5020. Medicine Clinical Rotation. Third-year medical students participate in a tenweek clinical clerkship under the aegis of the Department of Medicine, using the clinical services of the Vanderbilt, VA, and Saint Thomas Hospitals. All students spend the first eight weeks on an inpatient rotation and the last two weeks on an outpatient rotation. During the inpatient component of the clerkship, students will spend four weeks on a general medicine service and have the option to spend a second four weeks on another general medicine service or on a subspecialty service. Each student is assigned to a faculty/resident team and functions as an apprentice physician with graded responsibility for the evaluation and management of patients admitted to the medicine service. Students participate in all clinical and teaching activities of the service, including daily attending rounds, morning report, noon conferences, Grand Rounds, and the Thursday morning student lecture series. In addition, students meet weekly in small groups with an assigned faculty member who conducts preceptor rounds for the entire ten weeks. During the two-week outpatient rotation, students will work one-on-one with faculty preceptors in the clinic on campus or in the community. Clinical experiences are supplemented by daily workshops, student morning report, or lectures that cover important outpatient topics. Spickard and Staff.

Microbiology and Immunology

CHAIR Jacek Hawiger

PROFESSORS EMERITI John H. Hash, David T. Karzon

PROFESSORS Christopher R. Aiken, Dean Williams Ballard, Mark R. Boothby, Richard T. D'Aquila, Mark R. Denison, Terence S. Dermody, Jacek Hawiger, J. Harold Helderman, George C. Hill, Sebastian Joyce, Alexander R. Lawton III, Eugene M. Oltz, Theodore Pincus, Donald H. Rubin, Henry Earl Ruley, Subramaniam Sriram, James Ward Thomas II, Luc Van Kaer, Peter F. Wright, Mary M. Zutter

VISITING PROFESSOR In Seong Choe

ASSOCIATE PROFESSORS Thomas M. Aune, Joey V. Barnett, James E. Crowe, G. Neil Green, David William Haas, Andrew J. Link, Geraldine G. Miller, Louise A. Rollins-Smith, Derya Unutmaz

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RESEARCH ASSISTANT PROFESSORS Robert S. Carter, Maria Pia G. DePasquale, Xueyan Liu, Chang-Yuan Ni, Lan Wu

INSTRUCTOR Shreevrat Goenka

RESEARCH INSTRUCTORS Danya Liu, Ruth Ann Veach, Jing Zhou

THE Department of Micr obiology and Immunology pr ovides firstyear students with basic understanding of micro-organisms and the host's response in health and disease. Several electives are also offered.

Required Course

MICRO-5020. Microbiology and Immunology. This provides a comprehensive course of microbiology and immunology encompassing the molecular cell biology of microbial agents and the immune system, review of pathogenic bacteria, viruses, fungi, protozoa, and parasites. The course consists of lectures, conferences, and laboratory sessions and problem-based small group discussions focused on different pathogen-host relationships. SPRING. Van Kaer.

Web site: http://bret.mc.vanderbilt.edu/microbiology

Molecular Physiology and Biophysics

CHAIR Alan D. Cherrington

PROFESSORS EMERITI Charles Rawlinson Park, Robert L. Post

PROFESSORS Albert H. Beth, G. Roger Chalkley, Alan D. Cherrington, Jackie D. Corbin, Stephen Neil Davis, Emmanuele DiBenedetto, John H. Exton, John C. Gore, Daryl K. Granner, Jonathan Lee Haines, Robert L. Macdonald, Mark A. Magnuson, James M. May, Richard M. O'Brien, Jane H. Park, David W. Piston, Alvin C. Powers, Roland W. Stein, Kevin Strange, Arnold W. Strauss, David H. Wasserman, P. Anthony Weil, John P. Wikswo, Jr.

RESEARCH PROFESSORS Sharron H. Francis, Sam K. Wells

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RESEARCH ASSISTANT PROFESSORS Robert K. Hall, Eric J. Hustedt, Michael J. Mc-Caughey, Richard Lee Printz

ASSOCIATES Amy E. Bazyk Crunk, Kelly A. Taylor

INSTRUCTORS Jeffrey A. Canter, Richard R. Whitesell

RESEARCH INSTRUCTORS Julio Ayala, Sheng-Song Chen, Fu-Yu Chueh, Dale Scott Edgerton, Habibeh Khoshbouei, Hanane A. Koteiche, Qiaoming Long, Jonathan V. Rocheleau, Chiyo Shiota, Richard A. Stein

ASSISTANTS Sharlet A. Anderson, Genea S. Crockett, Benita Lynch

THE Department of Molecular Physiology and Biophysics instructs first-year students in the essentials of physiological processes related to organs, tissues, and cells. Students may devise elective course work in any area of molecular physiology and biophysics, in conjunction with a sponsoring faculty member. Opportunities to participate in research activities are available to fourth-year students as electives.

Required Course

PSIO-5010. Human Physiology. This course consists of lectures, small group discussions, and clinical correlations designed to cover the essentials of human physiology for first-year medical students. SPRING. McGuinness.

Neurology

CHAIR Robert L. Macdonald

PROFESSORS EMERITI Frank R. Freemon, John Sloan Warner

PROFESSORS Bassel W. Abou-Khalil, Gary W. Duncan, Gerald M. Fenichel, Howard S. Kirshner, Patrick Lavin, Robert L. Macdonald, David Robertson, Subramaniam Sriram, Ronald G. Wiley

CLINICAL PROFESSORS Karl Edward Misulis

ASSOCIATE PROFESSORS Philip David Charles, Thomas L. Davis, Sean P. Donahue, Kenneth J. Gaines, Anthony W. Kilroy, Beth Ann Malow, Michael J. McLean, Paul L. Moots, J. Eric Pina-Garza, Michael G. Tramontana

ASSOCIATE CLINICAL PROFESSOR Constance J. Johnson

ASSISTANT PROFESSORS Muhammad Majid Al-Kaylani, Amir Arain, Malcolm John Avison, Kanika Bagai, Gregory Neal Barnes, Michael Kane Cooper, Ramon Fontanilla Cuevas, Michael Ladd Edgeworth, John Y. Fang, Martin J. Gallagher, Kevin F. Haas, Peter Hedera, Robert Ray Holcomb, Jane Ellen Howard, Kimberly Nixon Hutchison, Adrian A. Jarquin-Valdivia, Andre Lagrange, Gregory C. Mathews, BethAnn McLaughlin, Harold Moses, Jr., Anne Elizabeth O'Duffy, Amanda C. Peltier, Deron V. Sharpe, Pradumna P. Singh, James S. Walker, Wanda G. Webb

RESEARCH ASSISTANT PROFESSORS Stefan T. J. Engstrom, Hua-Jun Feng, Jingqiong Kang, Song-Yi Yao

VISITING ASSISTANT PROFESSOR Wan-Qian Zhao

ASSISTANT CLINICAL PROFESSORS Gretchen H. Campbell, Mary Ellen Clinton, Frances B. Kopecky, Noel P. Lim, Barbara J. Olson, Subir Prasad, Shan-Ren Zhou INSTRUCTOR Derek Riebau

CLINICAL INSTRUCTORS Alan F. Bachrach, Jan Lewis Brandes, James Alan Fry

THE Department of Neur ology offers instruction in neur obiology to first-year students, seminars in clinical neur ology to second-year students, and instruction in diseases of the nervous system to third-year students. Further clinical experience can be attained through specialty clinics offered as fourth-year electives. These clinics include the specialties of pediatric neurology, adult neurology, epilepsy, general neurology, movement disorders, and neuromuscular disease. Clerkships in neurology at affiliated hospitals are available, as electives, in the fourth year. Elective research programs in basic neuroscience or clinical neurology are available to students at all levels.

Required Course

NEURO-5010. Neurology Clinical Rotation. All members of the third-year class are alternately assigned to the neurology wards for four weeks. Students are given direct responsibility for the evaluation and care of patients under the supervision of house staff and faculty. This brief exposure is intended to provide the students with an approach to patients with diseases of the nervous system. (339 MCS). Students will have two two-week assignments on inpatient services, with exposure to outpatient neurology clinics as well. NOTE: Psychiatry and Neurology are given in an eight-week block. Jarquin-Valdivia.

Obstetrics and Gynecology

CHAIR Nancy C. Chescheir

- PROFESSORS EMERITI Benjamin J. Danzo, Marie-Claire Orgebin-Crist, C. Gordon Peerman, Jr.
- PROFESSORS Frank H. Boehm, Lonnie S. Burnett, Nancy C. Chescheir, John Watson Downing, Esther Eisenberg, Stephen S. Entman, Arthur C. Fleischer, Steven G. Gabbe, John W. Greene, Joel T. Hargrove, Howard W. Jones III, Michael H. Melner, Kevin G. Osteen, Rose M. Robertson, Daulat Ram P. Tulsiani, Sten H. Vermund, Carl W. Zimmerman
- CLINICAL PROFESSORS G. William Bates, James F. Daniell, Jr., Henry W. Foster, Howard D. Homesley, Frank Wen-Yung Ling, Houston Sarratt, Thomas Gregory Stovall, Robert Layman Summitt
- ASSOCIATE PROFESSORS Ted L. Anderson, Jeffrey C. Andrews, Mark J. Bliton, Cornelia Rose Graves, Barry Kent Jarnagin, Lynn M. Matrisian
- ASSOCIATE CLINICAL PROFESSORS Larry T. Arnold, Jill F. Chambers, Angus M. G. Crook, James H. Growdon, Jr., Robert H. Tosh, Val Yvette Vogt
- ADJUNCT ASSOCIATE PROFESSOR Maria del Pilar Aguinaga
- ASSISTANT PROFESSORS Radhika Ailawadi, Rochelle Filker Andreotti, Kelly A. Bennett, Bruce Robert Beyer, Douglas H. Brown, Kaylon L. Bruner-Tran, Harold Breckenridge Collins, Marta Ann Crispens, Audrey H. Kang, Nancy B. Lipsitz, Melinda S. New, Gautam G. Rao, Charles B. Rush, Bennett M. Spetalnick, Deborah Webster-Clair, Grant R. Yeaman
- ASSISTANT CLINICAL PROFESSORS Ted L. Anderson, George B. Crafton, B. Stephens Dudley, Marvin G. Gregory, George Alan Hill, Deborah J. Kondis, Bryan Richard Kurtz, H. Newton Lovvorn, Jr., Elizabeth Oldfield, Roy W. Parker, John E. VanHooydonk, Amy Gregory Weeks, Glenn A. Weitzman, Laura L. Williams
- ASSOCIATE Elizabeth Colvin Huff
- INSTRUCTORS Sharon A. Norman, Kristina Lynn Storck
- RESEARCH INSTRUCTORS Tultul Nayyar, Edward L. Organ
- CLINICAL INSTRUCTORS R. Terry Adkins, Darrington Phillips Altenbern, Donald R. Barnett, Michael Robert Bishop, Mary Anne Blake, Margaret Mary Brennan, Phillip L. Bressman, Roy P. Burch, Jr., Christina Cain-Swope, J. Calvin Channell, Katherine L. Clarke, Jackson Daniel Cothren, Donna J. Crowe, Richard John Davis, Lynn Ware Driver, Melanie A. Dunn, Abby C. Eblen, Joe Michael Edwards, Christie Lee Engel, Frederick L. Finke, Mary Anne Finney-Anderson, Charles M. Gill, Paul A. Green, Jr., Erich B. Groos, Larry D. Gurley, Michael D. Hawkins, M. Bruce Hirsch, Charlie Joe Hobdy, Annette E. A. Kyzer, John W. Macey, Jr., Roseann Maikis, Shauna Leigh McKinney, S. Houston Moran, Lisa B. Morgan, Merri B. Morris, H. Clay Newsome III, Naomi Paschall, Sharon Marie Piper, Richard E. Presley, Melissa G. Reynolds, Ron N. Rice, Sherrie A. Richards, Jacqueline Lee Rodier, Robin Elizabeth Sandidge, Nicole L. Schlechter, Shali Ricker Scott, Geoffrey H. Smallwood, Stephen M. Staggs, Jill Steier, S. Allison Cox Strnad, Wilborn D. Strode, Michael Charles Swan, Catherine M. Thornburg, Anthony E. Trabue, Christine M. Whitworth, Carl E. Wingo, Anne Courter Wise, Grayson Noel Woods ASSISTANT Susan B. Drummond

THE Department of Obstetrics and Gynecology provides third-year students with an introductory experience in inpatient and outpatient obstetrics and gynecology. A number of electives are offered at various levels. These include reproductive biology, a high-risk-obstetrics seminar, human sexuality, gynecologic pathology, and sex counseling. Research experiences and a clinical clerkship in obstetrics and gynecology ar e available as electives to fourth-year students.

Required Course

5020. Obstetrics-Gynecology Clinical Rotation. Each member of the third-year class is assigned to the Obstetrics and Gynecology Service for eight weeks. The rotation includes a four-weeks rotation in obstetrics at Vanderbilt University Hospital and two two-week rotations in gynecological care at either Vanderbilt University Hospital or Baptist Hospital. The student is also assigned to follow patients for the entire rotation in a resident continuity-of-care clinic.

Vanderbilt University Hospital. Each student will spend four weeks on an Obstetrical rotation. While on the Obstetrical Service, the student will attend daily rounds and be involved with the Maternal-Transport Service. In addition to being involved on Labor and Delivery, students will help manage obstetric patients who are followed in the Vanderbilt Clinic. Each student will spend four weeks on gynecology. This will consist of two weeks on the Gynecologic Oncology Service and two weeks on the General Gynecology Service at either Vanderbilt University Hospital or at Baptist Hospital. The Oncology Service provides exposure and management of gynecologic malignancies. The GYN oncologists conduct daily teaching rounds. The General Gynecology Service provides exposure to medical and surgical management of patients seen in the Gynecology Clinic. The two-week rotation at Baptist Hospital provides excellent exposure to operative gynecology in the private practice setting. In addition, students are encouraged to observe surgical cases performed by the Reproductive Medicine Service. The eight-week rotation provides a broad-based introduction to the discipline of Obstetrics and Gynecology. Included in the rotation is a lecture series given by the faculty covering general obstetrics, high-risk obstetrics, gynecologic oncology, reproductive endocrinology, and general gynecology.

Ophthalmology and Visual Sciences

CHAIR Paul Sternberg, Jr.

PROFESSOR EMERITUS James H. Elliott

PROFESSORS Vivien A. Casagrande, Sean P. Donahue, Heidi Elizabeth Hamm, Patrick Lavin, Denis M. O'Day, John S. Penn, Paul Sternberg, Jr.

CLINICAL PROFESSORS John B. Bond, John E. Downing, Ralph E. Wesley

ASSOCIATE PROFESSORS David J. Calkins, Karen Margaret Joos

ASSOCIATE CLINICAL PROFESSORS Robert L. Estes, Gary W. Jerkins, Karla J. Johns, Reginald S. Lowe, Jr.

ASSISTANT PROFESSORS Anita Agarwal, Jiyang Cai, Min Shen Chang, Amy S. Chomsky, Jeffrey A. Kammer, Rachel Kuchtey, Louise Ann Mawn, Lawrence Merin, David G. Morrison, Franco Maria Recchia, Robbin B. Sinatra, Chasidy Dionne Singleton, Uyen L. Tran, Laura L. Wayman,

RESEARCH ASSISTANT PROFESSOR Jin-Hui Shen

ASSISTANT CLINICAL PROFESSORS Everton L. Arrindell, Brian Stuart Biesman, John B. Bond III, Abraham Pacha Cheij, Edward F. Cherney, Robert L. Estes, Meredith A. Ezell, James W. Felch, Walter W. Frey, William G. Gates, Robert R. Henderson, Martin L. Perlmutter, Deborah Ruark, Deborah D. Sherman, Ira Shivitz, Peter Sonkin, Roy Trent Wallace, Thomas A. Wohl

ASSOCIATES K. Bradley Kehler, Lori Ann Kehler, Jeffrey Sonsino

INSTRUCTORS Guri Bronner, Cynthia Carvalho-Recchia, Srilakshmi Maguluri, Katherine Whitfield

RESEARCH INSTRUCTORS John Kuchtey, Ling Pan

CLINICAL INSTRUCTORS Maziar Bidar, George N. Cheij, Parag D. Gandhi, Maria Garber, William G. Gates, Michael E. Green, Ralph F. Hamilton, Paul K. Herrell, Henry B. Kistler, Jr., Kimberly A. Klippenstein, Ben B. Mahan, Craig F. McCabe, Y. B. Paranjape, David O. Ranz, Howard R. Rosenblum, Daniel S. Weikert

THE Department of Ophthalmology provides second-year students an introduction to ophthalmology and the methodology of clinical science. The department also instructs third-year students, providing them with clinical exposure in ophthalmology. An elective course available in the second year consists of lectur es on the basic and clinical aspects of ophthalmology. An elective fourth-year clerkship and clinic provide intensive clinical experience.

Orthopaedics and Rehabilitation

CHAIR Dan M. Spengler

PROFESSORS Neil Edward Green, Donald Han Lee, Gregory A. Mencio, Herbert S. Schwartz, Dan M. Spengler, Kurt P. Spindler

ASSOCIATE PROFESSORS Antoinne C. Able, Philip James Kregor, John E. Kuhn, Thomas J. Limbird

ASSOCIATE CLINICAL PROFESSOR Michael J. Christie

ASSISTANT PROFESSORS Robert Baum, John J. Block, Andrea C. Bracikowski, Robert L. Caldwell, Richard A. Davis, Warren Reid Dunn, Mauro Giordani, Andrew John Maxwell Gregory, Thomas E. Groomes, Linda R. Halperin, Gene Alan Hannah, Ginger E. Holt, Michael J. McHugh, E. Paul Nance, Jr., William Todd Obremskey, Paul J. Rummo, Richard G. Shiavi, Andrew A. Shinar, Franklin D. Shuler, Horace E. Watson, Jeffry T. Watson, Douglas Ray Weikert

ADJUNCT ASSISTANT PROFESSORS Todd Lance Bohannon, Jane E. Siegel, Marek Szpalski

ASSISTANT CLINICAL PROFESSORS Mark R. Christofersen, Philip Gerlach Coogan, David K. DeBoer, Donald L. Gaines, Frank E. Jones

SENIOR ASSOCIATE Samuel Lewis Beckman

- ASSOCIATES Karen Michelle Ardisson, Carolyn S. Aubrey, Laura J. Huston, Daniel L. McNabb, Rhonda Pinkerman, Steven E. Polasky
- INSTRUCTORS Jason Martin Conaughty, Michael C. Koester, Erika J. Mitchell, Bhaskar Aditya Mukherji, Marc Allen Tressler

CLINICAL INSTRUCTORS John C. Brothers, Shannon S. Curtis, Michael Craig Ferrell ASSISTANTS Robin E. Driver, Taya K. Furmanski, Tara Holmes

THE Department of Orthopaedics and Rehabilitation of fers an introduction to clinical orthopaedic sur gery. Elective specialty clinics and an elective clerkship are offered in the fourth year. The department also of fers an opportunity for students to do research in orthopaedic surgery.

Otolaryngology

CHAIR Robert H. Ossoff

PROFESSOR EMERITUS R. Edward Stone, Jr.

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CLINICAL INSTRUCTORS Ronald Cate, Jerrall Paul Crook, Jr., William G. Davis, Mark A. Deaton, F. Brian Gibson, William Thomas Moore, Robert C. Owen, John D. Witherspoon

Pathology

CHAIR Samuel Andrew Santoro

PROFESSORS EMERITI Anh H. Dao, Susan A. Halter, Martin G. Netsky, John Brown Thomison, William O. Whetsell, Jr., Stephen C. Woodward

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CLINICAL PROFESSORS Robert G. Horn, Renu Virmani

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RESEARCH ASSOCIATE PROFESSORS Venkataraman Amarnath, Maria Gabriella Giro ADJUNCT ASSOCIATE PROFESSOR Awadh A. Binhazim ASSOCIATE CLINICAL PROFESSORS Richard D. Buchanan, Alice C. Coogan, Paul B. Googe, Myron A. Holscher, Edward C. McDonald, Richard Oldham, Ronald W. Oxenhandler

ASSISTANT PROFESSORS Ty William Abel, Mary Ann Thompson Arildsen, Alan Stuart Boyd, Justin Merril Mark Cates, James David Chappell, Kim Adams Ely, Adriana L. Gonzalez, Yasin Kokoye, Gilbert W. Moeckel, Peter John Mohler, Claudio A. Mosse, Anne Taggart Neff, Joan Taylor Richerson, Melinda E. Sanders, Andruj E, Sverstiuk, Alissa M. Weaver, Marcia L. Wills, Pampee Paul Young

RESEARCH ASSISTANT PROFESSORS Kalyani Amarnath, Jian-Xiong Chen, S. Kent Dickerson, Lijun Ma, Susan Renee Opalenik, Ingrid M. A. Verhamme

ADJUNCT ASSISTANT PROFESSOR Ronald Bruce Wilson

ASSISTANT CLINICAL PROFESSORS Maurice M. Acree, Jr., Jere W. Baxter, Raymond Francis Bluth, Harry G. Browne, Daniel D. Canale, Jr., Deborah O. Crowe, Thomas A. Deering, Samuel Houston DeMent, Vaithilingam G. Dev, James Patrick Elrod, Rufus Jack Freeman, Katherine Stokes Hamilton, Thomas E. Hanes, Jerry K. Humphreys, Peter F. Jelsma, Roy King, Bruce P. Levy, Feng Li, Edmund R. McKinley, Amy Ralston McMaster, Robert Norman Page, Dan Arie Pankowsky, Philip G. Pollock, David J. Switter, Robert W. Wahl, Ellen P. Wright, John E. Wright

SENIOR ASSOCIATE Herman Benge

ASSOCIATES Maralie Gaffron Exton, Bruce W. Greig

INSTRUCTORS Margaret S. McTighe, Derek Christopher Welch

RESEARCH INSTRUCTORS Mayme Lee Lawrence, Sandra J. Olson, Meejeon Roh, Susan E. Smaras, Holly L. Valentine, Zhonghua Zhang

CLINICAL INSTRUCTORS Carla M. Davis, Larry M. Lewis

THE DEPARTMENT of Pathology offers instruction in the study of the pathogenesis of disease and the structural and functional alterations which result from disease, including the natural history of these changes. The elective program includes lecture and laboratory experiences and research programs.

Electives include basic concepts of cancer, neuropathology, gynecologic pathology, clinical pathology, renal pathology, and hematopathology. Electives for thir d- and fourth-year students provide experiences in autopsy pathology, surgical pathology, and pathology specialty areas.

Research fellowships are available to post-sophomore students.

Required Course

PATH-5010. General and Special Pathology. The general and special pathology and pathophysiology are presented by lectures, gross organ demonstrations, small group discussions, laboratory work, and case studies, some of which use the problem-based learning process. Gross and microscopic lesions characteristic of various diseases are studied and correlated with clinical features. Computer-based lessons supplement other activities and are Web-based. Students participate in autopsies and are assigned patient problems for study and presentation to classmates and faculty. FALL. Joyce Johnson.

Web site: http://www.mc.vanderbilt.edu/virgil.

Pediatrics

CHAIR Arnold W. Strauss

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PROFESSORS Thomas James Abramo, Mark C. Adams, John T. Algren, Judy Lynn Aschner, Michael Aschner, H. Scott Baldwin, John W. Brock III, Ian M. Burr, Eric M. Chazen, Ellen Wright Clayton, Bruce E. Compas, Robert B. Cotton, James E. Crowe, Jr., Mark R. Denison, Terence S. Dermody, Jayant K. Deshpande, Sudhansu K. Dey, Kathryn M. Edwards, Gerald M. Fenichel, Candice Denise Fike, Jo-David Fine, Agnes B. Fogo, Thomas P. Graham, Jr., John W. Greene, John P. Greer, Thomas A. Hazinski, Richard M. Heller, Jr., Marta Hernanz-Schulman, Gerald B. Hickson, Iekuni Ichikawa, Alexander R. Lawton III, Joseph K. McLaughlin, Robert Alexander McWilliam, Wallace W. Neblett III, John A. Phillips III, Jayant P. Shenai, Patricia Snyder, Mildred T. Stahlman, Wendy L. Stone, Arnold W. Strauss, Hakan W. Sundell, Patricia C. Temple, Sten H. Vermund, Lynn S. Walker, William F. Walsh, Peter F. Wright VISITING PROFESSOR Ana Paula Marreiha dos Santos

RESEARCH PROFESSORS Daniel P. Lindstrom, Richard C. Urbano

ADJUNCT PROFESSORS Yoram Finkelstein, Frances P. Glascoe, Thilo Stehle, Susanne Tropez-Sims, Jane Y. Wu

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RESEARCH ASSOCIATE PROFESSORS Joy Darlene Cogan, ZaZa A. Khuchua, Lawrence A. Scheving

ADJUNCT ASSOCIATE PROFESSORS Ovidio B. Bermudez, Donald E. Lighter, John Nading ASSOCIATE CLINICAL PROFESSORS Rosemary Hunter Aaron, Joel F. Bradley, Jr., H. Victor Braren, Arthur Scott Brooks, Paul M. Douthitt, Mary Catherine Dundon, Warren D. Ervin, Larry McNeill Faust, Danny Wayne Futrell, Omar L. Hamada, Tara N. Hamada, Douglas C. Henry, Ronald F. Howard, Quentin A. Humberd, John O. Jackson, Jr., Mary E. Keown, Stanley M. Lee, Raymond L. Meneely, Ronald V. Miller, Gordon A. Moreau, John R. Morgan, David M. Moroney, Dewey G. Nemec, John T. Netterville, Jr., William J. Pedigo, Elizabeth P. Pierce, Timothy R. Roads, Patricia F. Robinson, Jorge Rojas-Brassetti, Dan S. Sanders III, E. Conrad Shackleford, Jr., C. Norman Spencer, Joseph Steranka, C. A. Stilwell, Julia Thompson, Ernest A. Turner, Thomas C. Whitworth, G. Wallace Wood

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- RESEARCH ASSISTANT PROFESSORS James David Chappell, Takiko Daikoku, Lynnette M. Henderson, Yujiang Jia, Ji Ma, Taiji Matsusaka, Julia S. Noland, Michael Rock, Vikrant V. Sahasrabuddhe, Stephanie A. So, Vasundhara Varthakavi, Haibin Wang, Bingruo Wu, Fang Yan, Bin Zhou
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- ASSISTANT CLINICAL PROFESSORS Nazneed Ahmed, Ruby M. Albert, Laurel V. Alsentzer, James C. Anderson, Barbara A. Aquino, Elizabeth Ward Bailes, Nancy Graves Beveridge, Duncan R. Campbell, Susan B. Campbell, Caroline H. Chester, Shahana A. Choudhury, George T. Critz, Cristina Reyes Cruz, Ray L. Dubuisson, Vernessa Wood Ekelem, Lee Ann Freeman, Roland W. Gray, Scott Osborn Guthrie, Elie Hage-Korban, Laurie A. Harris-Ford, Paul Jacob Heil, Charles S. Hirshberg, William Stephen Johnson, Margreete Johnston, Jodi Ann Hitchcock Keeler, Elizabeth Duke Krueger, Ruth Barron Long, D. Mark Mahler, Reeta Misra, William R. Moore, Susan Lynn Morgan, Charles A. Moss III, Joe Persius Moss, Jr., John Adrian Mulder, Barbara J. Olson, Waclawa Yvonne Pawlowski, DeLinda Lee Pearson, Julie T. Peek, Satish D. Prabhu, Richard E. Rainey, Yvonne Robinson, Stephanie L. Schultz, John D. Scott, Suzanne R. Snyder, Preston M. Stein, Steven M. Tate, Elizabeth Grimes Triggs, Joan W. White, Bernard A. Wiggins

SENIOR ASSOCIATES Cheryl W. Major, Lois J. Wagner, Denise J. Wetzel

- ASSOCIATES Margaret J. Bender, Melinda P. Cohen, Martha Shaw Dudek, Vickie L. Hannig, Jean P. Pfotenhauer, Sue Ross, G. Kyle Rybczyk, Jennifer H. Vick
- INSTRUCTORS Adriana Bialostozky, Thomas F. Byars, Teresa Perry Crase, Matthew Dzurik, Michelle R. Fenton, Emma M. Jones, Jennifer Ann Keates-Baleeiro, Michael C. Koester, Aubrey Amoo Lamptey, Karen Lubell, Alan L. Mannheimer, Shellon McAllister-Brook, Steven James McElroy, Karen Meredith, Dejan Milatovic, Eva Kathryn Miller, Jill Cole Obremskey, Samuel Trent Rosenbloom, Christianne L. Roumie, Clay B. Smith, Keegan M. Smith, Paige J. Smith, Bradley Strohler, Phyllis Lynn Thompson, Amy E. Vehec, Sally A. Watson, Derek A. Williams

RESEARCH INSTRUCTORS Xuemin Chen, Vanessa A. Fitsanakis, Justin C. Grindley ADJUNCT INSTRUCTORS Richard W. Greene, Kimberlee D. Wyche-Etheridge CLINICAL INSTRUCTORS Gail L. Addlestone, Norman Albertson, Sudha S. Amatya, Lori

L. Amis, Amy E. Armada, Clegg F. Austin, Nichole O. Baggott, Wendy Pais Baker, Samuel R. Bastian, James H. Batson, Joseph A. Baust, Jr., Maria C. Benitez, Leslie Farley Bennett, Kelly S. Bennie, Kimberly C. Bergeron, Robert J. Berman, Jr., Suzanne Kathleen Berman, Jon E. Betts, Deborah D. Beyer, Janet G. Blackwell, Eve McDonald Boger, Jennifer Bondurant, Linda Diane Brady, Lori Antoinette Breaux-Mitchell, Donald T. Brothers, Jr., Bradley N. Bullock, Cynthia R. Calisi, Thomas Joseph Carr, John Chambers, Stephen H. Claycomb, David Reid Collins, Meri Shaw Collins, Jo Ann Cook, Allison Cummings Couden, William Raymond Davidson, Jennifer Marie Donnelly, Elizabeth Ponder Dykstra, Edward D. Eastham, William D. Edmondson, Timothy H. Eidson, David Engler, Amy Hurst Evans, Elizabeth Heather Fairbank, Michelle Fiscus, Jill A. Forbess, Rebecca L. Frakes, Beverly A. Frank, Brian S. Gannon, Parham Ghavami, James C. Godfrey III, Brad A. Greenbaum, Indu Gupta, Anne-Marie Ethier Hain, Eddie D. Hamilton, Kelsey A. Hamilton, Rodney M. Hamilton, James R. Hanley, Frank Joseph Haraf, Jr., Dana J. Haselton, Anne B. Hawkins, James P. Henderson, Timothy Henschel, Casilda I. Hermo, Tiffany Elder Hines, Wendy L. Hitch, Molly Ramona Hood, David R. Hudson, Christine W. Hunley, Robert H. Hutcheson, Jr., Mary Heather Johnson, David G. Johnston, Charles Andrew Jordan, Jason L. Kastner, Samantha Y. King, Neil E. Kirshner, Mary Kline, Lawrence A. Klinsky, Michael David Ladd, Melissa Lorraine Lambert, Susan Langone, Deidre E. Lanier, Mark Andrew Lee, H. Brian Leeper, Russell B. Leftwich, Maria del Pilar Concepcion Levy, Virginia Pitts Lilenthal, Robert Howard Lilliard, Jr., John Royston Long, Amy Larsen Lynch, Jennifer B. MacMaster, Timothy C. Mangrum, Steve Marchbank, Joshua M. McCollum, Rhett Farrell McLaren, Karie McLevain-Wells, Angela R. McVie, Deepak Mehrotra, Corbi D. Milligan, Dina H. Mishu, Sharon Moore-Caldwell, Jennifer E. Moore, Gabriela Thomas Morel, Chetan R. Mukundan, Jennifer Braden Myers, Jaygopal Nair, Monica Elaine Wagner Nania, K. Timothy North, Lee Anne O'Brien, Harshila Patel, Barron Lee Patterson, Sara Jane Fletcher Patterson, Christopher M. Patton, Robin S. Pearson, Matthew L. Perkins, Lisa Marie Petursson, David Piper, Mille Poole, James E. Powell, Mitchell Pullias, Jennifer Ragsdale, John M. Rahe, Ravi K. Raheja, Lindsay M. Rauth, Jennifer L. Ray, Kris Parks Rehm, Rachel M. Ricafort, David A. Richman, Kimberly M. Rosdeutscher, Victoria Rae Rundus, Richard A. Sances, Catherine Harriett Sauls, Katharine Schull, Neil E. Seethaler, Nicholas Barrett Self, Kimbel D. Shepherd, Jennifer D. Singleton-Ashworth, Catherine A. Sipe, Christopher Smeltzer, Susan Lipsky Snyder, Tunde Sotunde, Christina W. Steger, Jill E. Steigelfest, Eric Francis Stiles, Julianne Stout, Lesa Sutton-Davis, Keith Thompson, Phyllis L. Townsend, Parvin Vafai, Vani V. Veeramachanei, Amy E. Vehec, Diane Marie Vosberg, Travis T. Walters, David J. White, Ida Michele Williams-Wilson, Patricia Sticca Williams, Sadhna V. Williams, Stacey M. Williams, William S. Wiseman II, Kenneth N. Wyatt, Tadayuki Yoneyama, John M. Yuill ASSISTANTS Hollye R. Gallion, Mary Fran Hazinski, Julie Elizabeth Rosof-Williams, Carolyn D. Smeltzer

THE Department of Pediatrics provides second-year students an introduction to pediatrics as part of an intr oduction to clinical medicine. Thirdyear students participate in a clinical experience on the pediatric wards and clinics and attend a series of clinical lectures and demonstrations.

Electives are available to students in all four years including such courses as signposts of human growth and development; pediatric pathophysiology; pathogenetic mechanisms in clinical infectious disease; pediatrics war d r ounds; an intr oduction to clinical pediatrics; nutrition rounds; the fundamentals of human development; methods of delivering pediatric medical care in rural areas; urban health problems; child behavior; and gr owth and development. Ther e are also clinical selectives and electives in general pediatrics and specialties.

Required Courses

P-5020. Pediatrics Clinical Rotation. Each member of the third-year class is assigned to pediatrics for eight weeks. Six weeks are spent on the Vanderbilt University Hospital pediatric wards. Students participate in all phases of diagnosis and treatment of a wide variety of illnesses of children and infants. Two weeks of the clerkship includes work in pediatric clinics or a pediatrician's office. Besides teaching rounds on the wards and nursery, student lectures are held twice times a week. Grand Rounds are held weekly and Chief Resident Rounds are held each Thursday. Problem-solving sessions are held during the six-week ward rotation. Access and use of Internet-based learning resources are encouraged. Gigante, and Chief Residents and Staff, Children's Hospital.

IDIS-5100. Primary Care Medicine. All fourth-year students will have a four-week unit in an ambulatory primary care setting. Students will choose an experience in outpatient internal medicine, family medicine, or pediatrics. Practice sites include ambulatory medicine or pediatric clinics in the community. Students may also arrange a primary care experience outside of Nashville subject to the approval of the course directors. The clinic experience is supplemented by various conferences and a home health or hospice visit. In addition, all students will complete the core didactic lecture series that includes exercises in problem-based learning, role-plays to foster interview skills, and a program in risk management. Prerequisite: Medicine 502, Pediatrics 502, Surg 502. Gigante and Spickard.

Pharmacology

CHAIR Heidi E. Hamm

PROFESSORS EMERITI Wolf-Dietrich Dettbarn, Joel G. Hardman, Erwin J. Landon, Peter W. Reed, Jack N. Wells

PROFESSORS Michael Aschner, Malcolm John Avison, Jeffrey R. Balser, Italo O. Biaggioni, Randy D. Blakely, Alan R. Brash, Richard M. Breyer, Kendal Scot Broadie, Nancy J. Brown, Richard Caprioli, Peter Jeffrey Conn, Louis J. DeFelice, Ariel Y. Deutch, Sudhansu K. Dey, John H. Exton, Alfred L. George, Jr., David L. Hachey, Heidi Elizabeth Hamm, Kenneth R. Hande, Richard B. Kim, Pat R. Levitt, Daniel Christopher Liebler, MacRae F. Linton, Terry P. Lybrand, Robert L. Macdonald, Peter R. Martin, Richard C. McCarty, Herbert Y. Meltzer, Jason D. Morrow, John A. Oates, L. Jackson Roberts II, David Robertson, Dan M. Roden, Jeffrey N. Rottman, Elaine Sanders-Bush, Richard C. Shelton, Kevin Strange, Douglas E. Vaughan, Ronald G. Wiley, Grant R. Wilkinson, Alastair J. J. Wood

VISITING PROFESSOR Joseph Parello

ADJUNCT PROFESSORS John Thomas Clark, Lee E. Limbird, Sukhbir S. Mokha

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RESEARCH ASSISTANT PROFESSORS David C. Airey, Olivier Gilles Boutaud, Lucia Carvelli, Songhai Chen, Sean S. Davies, Kathie Louise Eagleson, Maureen Kay Hahn, Xia Li, Stephen B. Milne, Colleen M. Niswender, Yi Nong, Aurea Fugazzola Pimenta, Christine Saunders, Claus Schneider, Gregg D. Stanwood, Uhna Sung, Rommel G. Tirona, Dao Wu Wang, Dave Weaver, Huiyong Yin, Chong-Bin Zhu
VISITING RESEARCH ASSISTANT PROFESSOR Charles D. Nichols
ADJUNCT ASSISTANT PROFESSOR Chand Desai
INSTRUCTOR Harish C. Prasad
RESEARCH INSTRUCTORS Jeffrey Scott Forrester, Paul James Gresch, Haifa A. Hallaq, Brwond A. Mohanbergh, Davanidhi Baman, Serney V, Buzhoy, Serney Aleksandrovi

Rymond A. Mohaghegh, Dayanidhi Raman, Sergey V. Ryzhov, Sergey Aleksandrovi Vishnivetskiy, Hong-Guang Xie, Ping Yang, Zhen-Jiang Yang,

THE Department of Pharmacology is responsible for the instruction of second-year students in the reactions of the human organism to chemical substances. Electives available to second-, thir d-, and fourth-year stu - dents include pharmacokinetics, dr ug metabolism, car diovascular pharmacology, molecular pharmacology , psychopharmacology , and dr ug receptor interactions. A clerkship in clinical pharmacology is of fered in the fourth year. Seminars, research programs, and special course work assignments are also available to fourth-year students as electives.

Required Course

PHAR-5010. Pharmacology. Lectures in which relevant physiology and pathophysiology, therapeutic interventions, and the reaction of the human organism to drugs used for therapeutic interventions are addressed in a systematic manner. Six lectures a week and two to three hours of conference work a week, including patient-oriented problem solving, clinical correlations, and conferences in which students learn to evaluate results of drug trials. SPRING. Awad.

Web site: http://www.mc.vanderbilt.edu/medschool_files/pharm501-321

Preventive Medicine

CHAIR William Schaffner EMERITI Charles F. Federspiel, Lewis B. Lefkowitz, Jr. PROFESSORS Roy L. DeHart, William D. Dupont, Marie R. Griffin, David L. Page, Wayne A. Ray, William Schaffner, Sten H. Vermund RESEARCH PROFESSOR Irene Feurer ADJUNCT PROFESSOR Michael D. Decker ASSOCIATE PROFESSOR Walter E. Smalley, Jr. RESEARCH ASSOCIATE PROFESSOR Theodore Speroff ADJUNCT ASSOCIATE PROFESSORS Bruce B. Dan, Bruce G. Gellin

ASSISTANT PROFESSORS Ban Mishu Allos, Patrick G. Arbogast, Karen C. Bloch, J. Jonas Kalnas, Loren Lipworth, Thomas R. Talbot III, Mary I. Yarbrough

ASSISTANT CLINICAL PROFESSORS Allen Scott Craig, Timothy F. Jones, Marion Angelika Kainer

CLINICAL INSTRUCTOR Robert H. Hutcheson, Jr.

THE Department of Preventive Medicine offers a second-year course in the fundamentals of epidemiology , medical statistics, and the basic principles of public health and preventive medicine. Electives available to students at various levels include biometry; clinical trials and medical surveys; sampling methods; envir onmental/occupational health; and special projects in public health. A preceptorship in primary health car e and clerkships in applied public health, sexually-transmitted diseases, and family and community medicine ar e also available to second- and fourth-year students as electives.

Required Course

PM-5030. Principles of Epidemiology, Biostatistics, and Preventive Medicine. This course introduces and elaborates the principles of the epidemiologic method and emphasizes insights for curative and preventive clinical medicine gained through studies of populations. Epidemiologic methods permit the identification of risk factors for acute and chronic diseases and suggest strategies for intervention. The course presents the foundations of epidemiology and clinical experimentation. The sources and consequences of biases are described and illustrated. The course also reviews major health issues and current developments in the organization, financing, and regulating of health services. The course combines classroom presentations with opportunity for class participation, written exercises, which are discussed in groups, and other group discussions. Text and handout materials are used as adjuncts to classroom and group presentations. SPRING (second half). Schaffner and Lefkowitz.

Web site: http://www.mc.vanderbilt.edu/prevmed/course/requiredcourse.htm

Psychiatry

INTERIM CHAIR Stephan H. W. Heckers

PROFESSORS EMERITI Virginia D. Abernethy, Thomas A. Ban, Fridolin Sulser, Warren W. Webb PROFESSORS William Bernet, Leonard Bickman, Randy D. Blakely, George C. Bolian,

Ariel Y. Deutch, Volney P. Gay, Judy Garber, Gerald B. Hickson, Howard S. Kirshner, Peter T. Loosen, Peter R. Martin, Herbert Y. Meltzer, Rudra Prakash, Howard B. Roback, Elaine Sanders-Bush, Richard C. Shelton, W. Anderson Spickard, Jr.

ADJOINT PROFESSOR Michael Maes

CLINICAL PROFESSORS David Barton, Robert O. Begtrup, Samuel O. Okpaku, William M. Petrie, S. Steve Snow

ASSOCIATE PROFESSORS Thomas F. Catron, D. Catherine Fuchs, Lawrence S. Gaines, Harry E. Gwirtsman, William A. Hewlett, Steven D. Hollon, Robert M. Kessler, Joseph D. LaBarbera, Myung A. Lee, James L. Nash, Paul W. Ragan, William M. Regan, Ronald M. Salomon, Michael G. Tramontana RESEARCH ASSOCIATE PROFESSOR Dennis E. Schmidt

ASSOCIATE CLINICAL PROFESSORS J. Emmett Dozier, Jr., Frederick T. Horton, Jr., Ronald F. Kourany, Kent Kyger, J. Kirby Pate, Judith J. Regan, Nicholas Sieveking, C. Richard Treadway, Zia U. Wahid

- ASSISTANT PROFESSORS Jennifer Betts-Dickey, Jennifer U. Blackford, Stelian Paul Bodea-Barothi, Kimberly P. Brown, Laurel Leslie Brown, M. Candice Burger, Ronald L. Cowan, Elliot M. Fielstein, Alistair James Reid Finlayson, Pamela Fishel-Ingram, Erin Paige Fowler, Deborah Faye Gatlin, Heather Harris, Brian D. Haworth, John A. Jackson, Sonya Nichole Jones, Jack L. Koch, Stephen Anthony Montgomery, Mitchell H. Parks, Scott Rodgers, Jennifer A. Scroggie, Sandra S. Seidel, Samuel Riley Sells III, Michael Henry Sherman, Karen L. Starr, Vatsal G. Thakkar, Kitti Lynn Virts, James S. Walker, David D. Weinstein
- RESEARCH ASSISTANT PROFESSORS Randy L. Smith-Barrett, Tomas dePaulis, Mary S. Dietrich, Kirsten L. Haman, James C. Jackson, Zhu Li, D. Hal Manier, M. Diana Neely, Monsheel S. Sodhi, Dorothy Durham Tucker
- ADJUNCT ASSISTANT PROFESSORS Ann Blair Beasley, Joseph A. Kwentus, Dorothy M. Owens, William Thomas Summerfelt
- ASSISTANT CLINICAL PROFESSORS Judith B. Akin, Philip Bradley Anderson, William H. Anderson, Casey C. Arney, Edward S. Arnold, Sarah B. Aylor, Michael J. Baron, Ralph I. Barr, Anne P. Bartek, Lynn P. Barton, Elizabeth A. Baxter, Vedavyasa Bhat Biliyar, Henry B. Brackin, Jr., Millicent Branch, Susan H. Bryant, Suzanne D. Butler, Reena M. Camoens, Thomas W. Campbell, Keith A. Caruso, Alex Chalko, David K. Chang, Philip Chanin, Yuejin Chen, Craig A. Clark, Michelle Macht Cochran, Jill DeBona, David T. Dodd, Christopher J. Dull, Don J. Elazar, Jeri Eileen Fitzpatrick, Sharone Elizabeth Franco, Daniel L. Friedman, Sharon M. Gordon, John J. Griffin, Vicki S. Harris, James R. Hart, Carol B. Hersh, Michael D. Hill, Stephen C. Humble, Roy E. Hutton, Raju V. Indukuri, Shahidul Islam, Robert C. Jamieson, Cynthia A. Janes, Karl Jannasch, Daniel S. Javier, Harold W. Jordan, William D. Kenner, Jack L. Koch, Jr., Prasad Kondapavaluru, Chandra S. Krishnasastry, J. Gregory Kyser, Shannon L. Little, Bret W. Logan, Linda S. Lundin, Alan J. Lynch, Nasreen Mallik, George M. Mathews, James R. McFerrin, Carol Proops Milam, Leonard Morgan, Jr., Saran V. Mudumbi, Paula S. Nunn, Rebecca L. Pearce, Samuel J. L. Pieper, Jr., Rodney A. Poling, Philomina Presentation, Michael W. Propper, C. Edward Qualls, Bhupendra M. Rajpura, Gilbert W. Raulston, Tanuja Reddy, Karen H. Rhea, Clifford F. Roberson, Richard E. Rochester, Michele Rose, Rebecca J. Rosello, Scott E. Ruder, Hal C. Schofield, Indu Senapati, Joseph Sharpe, Hamilton A. Small, Gary S. Solomon, Amanda Sparks-Bushnell, Jackie L. Stankiewicz, Phyleen Stewart-Ramage, Brian R. Swenson, Tianlai Tang, Lucas S. Van Orden, Rhonda R. Venable, Glenn Todd Webb, Jane R. Weinberg, W. Scott West, Jackson B. White IV, Brad V. Williams, Nat T. Winston, Nancy Yoanidis
- ASSOCIATES Michael John Cull, Helen E. Hatfield, René A. Love, Lynne L. McFarland, Christopher White
- **INSTRUCTOR Ellen Atkins**

RESEARCH INSTRUCTOR Michael Bubser

ADJUNCT INSTRUCTOR Helen H. Romfh

CLINICAL INSTRUCTORS Roy Oon Asta, Kevin B. Collen, Earl Q. Parrott, William F. Sheridan, Jr.

THE Department of Psychiatry pr esents a series of lectur es on human behavior and the practice of medicine to first-year students and instructs second-year students in the diagnosis, etiology, and treatment of basic psychiatric disorders. In the third year, students participate in a clerkship studying various psychiatric problems in both inpatient and outpatient settings. A number of elective courses offered at various levels include such topics as determinants of human behavior; human sexuality; health and illness, doctors and patients; and childr en's problems in contemporary society. A number of clerkships, of fered to fourth-year students as elec tives, provide intensive clinical experience in both inpatient and outpatient settings.

Required Courses

PSY-5040. Mind and Medicine. This course provides instruction in the psychological, behavioral, social, and developmental aspects of medical illness, the psychological responses of patients to illness, and the doctor-patient relationship. FALL. Fishel-Ingram and Staff.

PSY-5010. Introduction to Clinical Psychiatry. This course educates the second-year student on the diagnosis, etiology, and treatment of the basic psychiatric disorders: major depression and bipolar disorder, schizophrenia, anxiety disorders (panic, P.T.S.D., generalized anxiaty, O.C.D.), eating disorders, personality disorders, somatoform disorders, addictions, geriatric psychiatry, and child psychiatr. Case presetations to small groups are used to demonstrate the major disorders discussed in the lecture series. FALL. Thacker (Course coordinator: Waverly Demers).

PSY-5020. Psychiatry Clinical Rotation. Basic goals of this clerkship are to learn the fundamental techniques of psychiatric assessment, differential diagnosis, and treatment intervention. Activities include direct patient care and clinical rounds in the company of assigned faculty. The four-week placements include: Vanderbilt University Hospital, VA Hospital, the Psychiatric Hospital at Vanderbilt (Adult/Adolescent/Child) and Middle Tennessee Mental Health Institute. NOTE: Psychiatry and neurology are given in an eight-week block. Rodgers and Staff.

Radiation Oncology

CHAIR Dennis E. Hallahan
PROFESSORS Charles W. Coffey, Michael L. Freeman, Dennis E. Hallahan
ASSOCIATE PROFESSORS Anthony J. Cmelak, Dennis M. Duggan, P. Charles Lin, Arnold William Malcolm
RESEARCH ASSOCIATE PROFESSORS Ling Geng, Sekhar R. Konjeti
ASSISTANT PROFESSORS Anuradha Chakravarthy, George X. Ding, Steven R. Goertz, Zhaozhong Han, Bo Lu, Michael Edward Marks, Todd Tenenholz, Ming Teng

ADJUNCT ASSISTANT PROFESSOR Paul Allen Rosenblatt RESEARCH ASSISTANT PROFESSOR Fen Xia RESEARCH INSTRUCTOR Ying Zhang

THE Department of Radiation Oncology intr oduces the discipline of radiation oncology to medical students during their thir d- or fourth-year clerkships. In third year, students attend departmental presentations as a part of their clinical rotations and discuss the use of appropriate work-up and treatment of cancer patients. Fourth-year students may participate in basic science, translational, or clinical research in radiation oncology.

Radiology and Radiological Sciences

CHAIR Martin P. Sandler

PROFESSORS EMERITI Joseph H. Allen, Jr., John H. Beveridge, Frank E. Carroll, Jr., S. Julian Gibbs, Sandra G. Kirchner, W. Faxon Payne, Henry P. Pendergrass

PROFESSORS Malcolm John Avison, Benoit M. Dawant, Dominique Delbeke, J. Michael Fitzpatrick, Arthur C. Fleischer, Michael L. Freeman, John C. Gore, Richard M. Heller, Jr., Marta Hernanz-Schulman, Jeremy J. Kaye, Robert M. Kessler, Marvin W. Kronenberg, Steven G. Meranze, C. Leon Partain, James A. Patton, Ronald R. Price, Martin P. Sandler, Harold Delane Thompson, Norman H. Tolk

RESEARCH PROFESSOR A. Bertrand Brill

ADJUNCT PROFESSORS Arnold Burger, A. Everette James, Jr.

ASSOCIATE PROFESSORS Adam W. Anderson, Rochelle Filker Andreotti, Ronald Curtis Arildsen, Jeffrey L. Creasy, Thomas S. Dina, Thomas P. Graham, Jr., Theodore C. Larson III, William H. Martin, Murray J. Mazer, Robert Alan Mericle, E. Paul Nance, Jr., Cynthia B. Paschal, David R. Pickens III, Thomas A. Powers, Glynis A. Sacks-Sandler, Max Israel Shaff, Stephanie E. Spottswood, Sharon M. Stein, John A. Worrell

RESEARCH ASSOCIATE PROFESSORS Ronald M. Baldwin, Haakil Lee

ADJUNCT ASSOCIATE PROFESSOR Jeffrey A. Landman

ASSOCIATE CLINICAL PROFESSOR M. Reza Habibian

ASSISTANT PROFESSORS E. James Andrews, Jr., Joseph M. Aulino, Gary L. Bienvenue, John J. Block, Peter R. Bream, Jr., Kimberly Collis Brennan, Ronald L. Cowan, Bruce M. Damon, Joseph Diggs, Zhaohua Ding, Mark D. Does, Edwin Donnelly, Eric Eskioglu, Charles T. Faulkner, Ricardo B. Fonseca, James Christopher Gatenby, Daniel Frank Gochberg, Ewa Grzeszczak, Cheryl R. Herman, Alice A. Hinton, Nancy Wingfield Darden Holland, Ralph Duane Holland, James M. Joers, J. Herman Kan, Peter M. Lams, Mark A. Lawson, Jackiel R. Mayo, Kevin T. McManus, Victoria L. Morgan, Robert J. Pallow, Todd E. Peterson, John Danforth Ross, Sudha P. Singh, Michael G. Stabin, LeAnn Simmons Stokes, Megan K. Strother, David S. Taber, Curtis A. Wushensky, Thomas E. Yankeelov VISITING ASSISTANT PROFESSOR Edward Brian Welch

RESEARCH ASSISTANT PROFESSORS Natasha Grant Deane, Stacy Stansell Klein, Patrizia Riccardi, William R. Riddle

ADJUNCT ASSISTANT PROFESSORS Reuven Brenner, Jaydip Datta, Martin Lepage ASSISTANT CLINICAL PROFESSORS Jung Ja Hong, Steven B. Knight, Andrew J. Padgug, ASSOCIATE Jeffrey A. Clanton

INSTRUCTORS Joseph Michael Ayad, Robert Stanley Burcham, Gregory Stewart Elliott, Jeffrey James Luci, Mark Francis Ander Reese, Scott R. Shay, Huairen Zeng

RESEARCH INSTRUCTOR Yu Pei Ma

ASSISTANT Mohammad Sib Ansari

THE Department of Radiology and Radiological Sciences intr oduces the discipline of radiology to medical students during their first-year course in gross anatomy.

The second-year course includes lectur es and small gr oup seminars correlating pathological findings and physical diagnostic signs with roentgen findings. In the third year, students attend departmental presentations as a part of their clinical rotations and discuss the use of appropriate imaging modalities including computed axial tomography , nuclear medicine, magnetic r esonance imaging, digital subtraction angiography, and ultrasound in diagnostic evaluation.

Fourth-year students have at their disposal a variety of audiovisual aids prepared for self-instruction, and personally observe and participate in de partmental procedures in a didactic lectur e series. A clerkship in diagnostic radiology is offered as a fourth-year elective. Other electives available to students at various levels include computer applications in medicine; principles in the use of radioisotopes in biology and medicine; clinical nuclear medicine; physics in diagnostic and therapeutic radiology; mammalian radiobiology; and neur oradiology. Clerkships in therapeutics ar e also available.

Required Course

PATH-5020. Introduction to Radiology. Second year. This weekly one-hour lecture course introduces basic principles of imaging and interpretation of x-ray, ultrasound, CT, MR, and radionuclide methods in the study of various organ systems. To prepare the student for clinical clerkships, indications, contraindications, and risks fo various examinations and procedures will be presented by faculty of the Department of Radiology and Radiological Sciences.When feasible, radiology topics will correlate with that week's pathology laboratory and lecture topics. The student's grade will be determined by one-hour midterm and final examinations. FALL. Taber and Staff.

Section of Surgical Sciences

CHAIR OF THE SECTION R. Daniel Beauchamp

THE Section of Sur gical Sciences is composed of the departments of Surgery, Emergency Medicine, Neur osurgery, Oral and Maxillofacial Surgery, Pediatric Surgery, Plastic Surgery, Thoracic and Cardiac Surgery, and Urologic Surgery.

These departments contribute to the interdepartmental course in methods in clinical science. Thir d-year students participate in a clinical clerkship in which they ar e assigned to the sur gical divisions of V anderbilt Hospital, St. Thomas Hospital, or V eterans Administration Hospital. Third-year surgical clerks also participate in a series of clinical case pr esentations. Fourth-year students are required to have one month of senior selective clerkship in general surgery or another surgical specialty.

Surgical clerkships are offered to fourth-year students as electives at affiliated hospitals. Other elective clerkships available to fourth-year students include neur ological sur gery, car diovascular sur gery, ur ology, pediatric surgery, clinical oncology, plastic surgery, renal transplantation, and oral surgery. A laboratory research elective and a urology clinic seminar are also available to fourth-year students.

Surgical Division Required Course

S-5020. Surgery Clinical Rotation. Ten week rotation. For five weeks, each student in the third-year class is assigned to the general surgical divisions of Vanderbilt University Hospital, Nashville Veterans Administration Medical Center, or St. Thomas Hospital. Under the direction and supervision of the staff, the student takes histories, does physical examinations, and assists the staff in the diagnostic evaluation and clinical management of assigned patients. The other five weeks of the clinical assignment provide two (2) rotations to the specialty services in Cardiothoracic, Neurosurgery, Pediatric Surgery, Urology, Ophthalmology, Plastic Surgery, Anesthesiology, Orthopaedics, Otolaryngology and Renal-Transplant Surgery at Vanderbilt. These rotations provide exposure to a variety of patients with problems in general surgery and in the special fields of surgery. Members of the faculty and/or house staff hold teaching sessions daily. Students go with their patients to the operating rooms where they are observers and assistants to the staff in surgery, the surgical special-ties, and anesthesiology. An integral part of this clerkship is the core lecture series in surgery. Small group discussions with Dr. John Tarpley take place weekly while on the subspecialty rotations. Beauchamp, Lomis, and Staff.

General Surgery

Subspecialties

General Surgery, Vanderbilt General Surgery, VA General Surgery, St. Thomas Hepatobiliary, Vanderbilt Anesthesiology, VA Cardiothoracic, VUH Cardiothoracic, VA Neurosurgery, VUH Ophthalmology, VUH Orthopaedic Surgery, VUH Pediatric Surgery, VUH Plastic Surgery, VUH Renal Transplant, VUH Trauma, VUH Urology, VUH Vascular Surgery, VUH

General Surgery

CHAIR Naji N. Abumrad

- PROFESSORS EMERITI Benjamin F. Byrd, Jr., William H. Edwards, Sr., Walter G. Gobbel, Jr.,
 - J. Kenneth Jacobs, H. Keith Johnson, James A. O'Neill, Jr., Robert E. Richie, Douglas H. Riddell, John L. Sawyers
- PROFESSORS Naji N. Abumrad, R. Daniel Beauchamp, Ravi S. Chari, J. Stephen Dummer, Wa'el El-Rifai, Robert L. Galloway, Jr., James Richard Goldenring, Richard S. Miller, John A. Morris, Jr., C. Wright Pinson, William O. Richards, David Shaffer, Kenneth W. Sharp, John Leeman Tarpley, John Kelly Wright, Jr.
- RESEARCH PROFESSOR Irene Feurer
- ADJUNCT RESEARCH PROFESSOR Harold C. Miller
- CLINICAL PROFESSOR Joseph L. Mulherin, Jr.
- ASSOCIATE PROFESSORS William J. Anderson, Reginald Coopwood, Jose J. Diaz, Jr., William Russell Dougherty, Jeffrey S. Guy, Michael S. Higgins, Michael D. Holzman, Mark C. Kelley, Addison K. May, Steven G. Meranze, Thomas C. Naslund, William A. Nylander, Jr., Walter E. Smalley, Jr.
- RESEARCH ASSOCIATE PROFESSORS Rafe M. Donahue, Kareem Jabbour, Phillip E. Williams
- ADJUNCT ASSOCIATE PROFESSORS Robert C. Bone, Paul J. Flakoll, Andrew John Pullan
- ASSOCIATE CLINICAL PROFESSORS Roger A. Bonau, William H. Edwards, Jr., Steven J. Eskind, Raymond S. Martin III, Bonnie M. Miller, Douglas O. Olsen, Stanley O. Snyder, Jr., Clarence S. Thomas, Jr., Pat W. Whitworth, Jr.
- ASSISTANT PROFESSORS Eugene Prichard Chambers, Jr., Bryan Richard Collier, Bryan Alan Cotton, Pran Krishna Datta, Jeffery B. Dattilo, Punita Dhawan, David Lee Gorden, Ana Grau, Oscar D. Guillamondegui, Raul J. Guzman, Alan Joseph Herline, Yenya Hu, Burnett S. Kelly, Aydin Tarik Kizilisik, Ralph J. LaNeve, Kimberly D. Lomis, Murray J. Mazer, Anna L. Means, Willie V. Melvin III, Nipun B. Merchant, Ingrid M. Meszoely, Kimberly Ann Moseley, Roberta Lee Muldoon, Asli Ozdas, Alexander A. Parikh, Alphonse T. Pasipanodya, Marc A. Passman, A. Scott Pearson, John Edward Phay, Kenneth G. Smithson, Alfonso Torquati, Paul E. Wise, Alexander Zaika
- RESEARCH ASSISTANT PROFESSORS Leonard Alan Bradshaw, Natasha Grant Deane, Tahar Hajri, Karen Celeste Hobdy-Henderson, Lynne A. Lapierre, Edward Y. Zavala ADJUNCT ASSISTANT PROFESSOR Donald E. Meier
- ASSISTANT CLINICAL PROFESSORS Carlton Z. Adams, Jr., Terry R. Allen, Suhail H. Allos, Jeanne F. Ballinger, Nancy Reuter Barrett, Jonathan A. Cohen, M. Dorothy Fogerty, Maria E. Frexes-Steed, Richard J. Geer, Robert W. Ikard, Sabi S. D. Kumar, Jonathan C. Nesbitt, Timothy J. Ranval, Charles B. Ross, Richard B. Terry
- SENIOR ASSOCIATE Carolyn Watts
- ASSOCIATE Margaret Tarpley
- INSTRUCTORS Hanqing Cao, Robert Owens Carpenter, Adam W. Ellis, Sunil K. Geevarghese, William P. Riordan, Nikhilesh R. Sekhar
- RESEARCH INSTRUCTORS Abbes Belkhiri, Andrey E. Belous, Sunil Krishna Halder
- CLINICAL INSTRUCTORS Laura L. Dunbar, Ray Hargreaves
- ASSISTANTS Mary Fran Hazinski, Leanna Robbins Miller
- LECTURER Hal E. Houston

Cardiac Surgery

CHAIR John G. Byrne

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Greelish, Yenya Hu, Frank Gerald Scholl ADJUNCT ASSISTANT PROFESSOR Marinos Soteriou ASSISTANT CLINICAL PROFESSOR Michael R. Petracek INSTRUCTORS Tarek S. Absi, Sathappan Kumar

Neurological Surgery

CHAIR George S. Allen

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ASSOCIATE PROFESSORS Mark W. Becher, Lewis S. Blevins, Jr., Peter E. Konrad,

Theodore C. Larson, Robert Alan Mericle, Reid Carleton Thompson

RESEARCH ASSOCIATE PROFESSORS Changqing Kao, Nagendra S. Ningaraj ASSOCIATE CLINICAL PROFESSOR Ray W. Hester

ASSISTANT PROFESSORS Oran S. Aaronson, John Allan Barwise, Paul D. Boone, Joseph

S. Cheng, E. Duco Jansen, Moneeb Ehtesham, Eric Eskioglu, Anita Mahadevan-Jansen,

Louise Ann Mawn, Matthew Marshall Pearson, Kenneth G. Smithson, Kyle Derek Weaver RESEARCH ASSISTANT PROFESSORS James D. Stefansic

ADJUNCT ASSISTANT PROFESSORS Rebecca Ann Bachschmidt, Robert J. Weil ASSISTANT CLINICAL PROFESSORS Everette I. Howell, Jr., Scott Crawford Standard INSTRUCTOR Michael Joseph Ayad

RESEARCH INSTRUCTOR Karen K. Deal

CLINICAL INSTRUCTORS Vaughan A. Allen, Arthur Cushman, James W. Hays

Oral and Maxillofacial Surgery

CHAIR Scott B. Boyd PROFESSOR EMERITUS Elmore Hill PROFESSORS Scott B. Boyd, Harry L. Legan, Samuel Jay McKenna, Erwin G. Turner ADJUNCT ASSOCIATE PROFESSOR Charles W. Williams ASSOCIATE CLINICAL PROFESSOR James D. Allen ASSISTANT PROFESSORS Richard A. Ballard, Richard Scott Conley, Sanjay Puttam Reddi, Richard D. Roth ASSISTANT CLINICAL PROFESSORS George A. Adams, Jr., Bill W. Akin, Michael L. Bobo, Jeffrey B. Carter, George H. Clayton, Lindsey W. Cooper, Sr., David M. Denny, Nina Foley, Matthias J. Gorham, Spencer A. Haley, Alexandra Warren Hendricks, H. Pitts Hinson, Jody Jones, John T. King, Charles Michael Locke, Timothy E. McNutt, Terryl A. Propper, Gregory P. Richardson, Stanley C. Roddy, Jr., Ellen G. Shemancik, Henry C. Simmons III, David J. Snodgrass, John Carlos Stritikus, Rhonda Switzer, Donna C. Walls CLINICAL INSTRUCTOR George A. Adams, F. William Taylor

Pediatric Surgery

CHAIR Wallace W. Neblett III PROFESSOR EMERITUS George W. Holcomb, Jr. PROFESSOR Wallace W. Neblett III ASSOCIATE PROFESSOR John B. Pietsch ASSISTANT PROFESSORS Harold Newton Lovvorn III, Walter M. Morgan III, Stephen Eric Morrow, Edmund Y. Yang

Plastic Surgery

CHAIR R. Bruce Shack

EMERITI John B. Lynch, Greer Ricketson

PROFESSORS Lillian B. Nanney, R. Bruce Shack

ASSOCIATE PROFESSORS William Russell Dougherty, Kevin F. Hagan, Kevin J. Kelly ASSOCIATE CLINICAL PROFESSORS Jack Fisher, James J. Madden, Jr., Thomas W. Orcutt

ASSISTANT PROFESSORS Stephane Alain Braun, John Blair Summitt, Douglas Ray Weikert, J. Jason Wendel

ASSISTANT CLINICAL PROFESSORS Caroline H. Chester, Stephen M. Davis, Joseph B. DeLozier III, Philip E. Fleming, Mary Katherine Gingrass, G. Patrick Maxwell, John David Rosdeutscher

ASSISTANT Marcia E. Spear

Thoracic Surgery

CHAIR Joe B. Putnam PROFESSOR Joe B. Putnam ASSISTANT PROFESSORS Mathew Ninan, Eric S. K. Lambright

Urologic Surgery

CHAIR Joseph A. Smith, Jr.

PROFESSORS Mark C. Adams, John W. Brock III, Roger R. Dmochowski, Robert J. Matusik, Steven G. Meranze, Bruce J. Roth, Joseph A. Smith, Jr.
ASSOCIATE PROFESSORS Sam S. Chang, Michael S. Cookson, Frederick Kirchner, Jr., Douglas Franklin Milam, John C. Pope IV, William J. Stone
ASSOCIATE CLINICAL PROFESSORS H. Victor Braren, Charles W. Eckstein, Robert H. Edwards, Keith W. Hagan, Phillip P. Porch, Jr., Robert A. Sewell
ASSISTANT PROFESSORS Adri N. Bhowmick, Romano Thomas DeMarco, Simon William Hayward, S. Duke Herrell III, Susan Kasper, Harriette Miles Scarpero
RESEARCH ASSISTANT PROFESSORS Robert B. Barnett, Raoul S. Concepcion, Mark D. Flora, Jenny Jo Franke, Whitson Lowe, Thomas E. Nesbitt
INSTRUCTORS Lee R. Schachter, Jonathan S. Starkman
CLINICAL INSTRUCTORS Robert B. Faber, John J. Warner
ASSISTANT Todd J. Doran

Interdisciplinary Course Work

5010. Introduction to the Patient: Clinical Professionalism. Objectives: The objective of this selective is to expose first-year medical students to clinicians early in their educational training and to give opportunity to obtain exposure to clinician role models so that the idealistic and altruistic attitudes which brought them to medicine may be sustained during the pre-clinical phase of their education. We also hope to provide an experience in which medicine is practiced: specifically the common sense and practical consideration, which influence approaches taken and outcomes, achieved in the health care system. The format of the selective will be as follows: Two students will be assigned to a clinician and will meet with that clinician at least two afternoons per month. This selective will hold monthly class discussions and presentations. Course offered in the spring semester as an elective for second year medical students (MED 5100). FALL. Powers, Mulder, Shack, Temple.

Every first-year V anderbilt medical student is required to take one clinical selective during the fall semester of the first year. The selectives that meet this requirement are as follows:

IDIS 5050. Preceptorship in Clinical Medicine. The objective of this selective is to expose first-year medical students to clinicians early in their educational training and to give opportunity to obtain exposure to clinician role models so that the idealistic and altruistic attitudes which brought them to medicine may be sustained during the pre-clinical phase of their education. We also hope to provide an experience in which medicine is practiced: specifically the common sense and practical considerations, which influence approaches taken and outcomes, achieved in the health care system. The format of the selective will be as follows: Two students will be assigned to a clinician and will meet with that clinician at least two afternoons per month. This selective will hold monthly class discussions and presentations. Section Director: Powers.

IDIS 5060. Hospice and Palliative Care. Objectives: Students will spend a half-day each week at Alive Hospice under the direction of the Medical Director, in the inpatient hospice residence. Students will be exposed to a variety of patients (age, cancer and non-cancer diagnoses, AIDS, differing symptom management challenges, etc.) and will have the opportunity to interact with patients, families, and interdisciplinary staff. In this context, as a short term experience, the student is exposed to the palliative care paradigm of care at the end of life, enhancing the awareness of the reality of the dying process, the importance of hospice philosophy, the interdisciplinary team concept, and symptom management protocols. Students will be exposed to end of life issues including pathophysiology of the dying process, attitudes of the medical community as well as the wider community, ethical issues, national trends in dying, and palliative care symptom management, including pain and non-pain related systems and communication issues. Course offered in the spring semester to second year medical students as an elective (504 5735). Section Director: Mulder.

IDIS 5070. Plastic Surgery. Objectives: Are you interested in learning more about a surgical specialty that is so broad-based as to include all age ranges from pediatrics through geriatrics and virtually the entire body from head to foot? Are you interested in meeting with full-time faculty who are recognized nationally for their contributions to the specialty of Plastic Surgery? Are you interested in seeing patients and examining patients who have a broad variety of clinical problems? Are you interested in interacting with the faculty in a small group basis to discuss these problems in detail on a weekly basis? If so, I would encourage you to consider the Plastic Surgery Elective as a part of your educational opportunities. Course offered in the spring semester to second year medical students (S 5460.) FALL. Section Director: Shack.

IDIS 5080. Preceptorship in Pediatrics. In your pediatric preceptorship you will meet newborns, toddlers, children, and adolescents. You will observe their parents and their families. You will have the opportunity to learn from experienced physicians caring for each child and their families in a variety of settings including primary care, community-based practices, and Vanderbilt general pediatric and subspecialty clinics. Two students will meet with their clinical preceptor at least two half-days per month. This selective will hold monthly class discussions and presentations. Section Director: Temple.

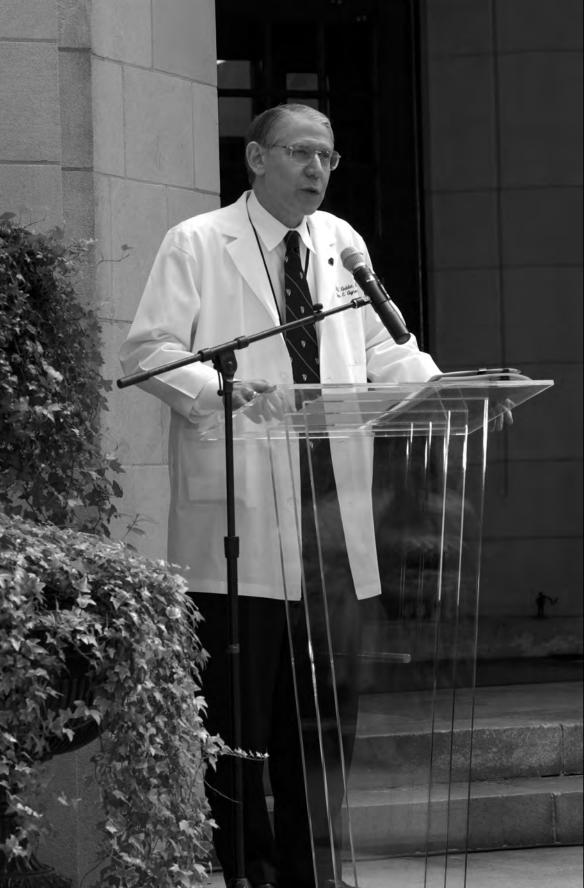
IDIS 5020. Ecology of Health Care. Interdisciplinary Studies. Medicine is practiced and health care is delivered in a complex ethical, cultural, and policy environment. This course introduces students to some of the fundamental components of this larger environment, including ethical and legal issues in medical practice, the social and cultural diversity of patients, and the basics of health care financing and organization in the U.S. Materials for study will be wide ranging, including case studies, essays, reports, poetry, short stories, and films. The course meets in small groups, Mondays, 11:00–12:30, during the fall term. Churchill.

Web site: http://www.mc.vanderbilt.edu/medschool/courses/ecology

IDIS 5040. Genetics. Genetics/Interdisciplinary. New developments in genetics provide new insights into pathogenesis and promise to alter the practice of medicine. At the same time, genetic information has implications that affect the individual clinician-patient relationship and beyond, including families, access to insurance, and employment—effects that could alter the use of this knowledge. This course will be taught using a primarily case-based method and will have the following goals: 1) to introduce students to the basic principles and methods of genetics, 2) to teach students how to obtain a good genetic history and how to find reliable genetic information, particularly using Web-based tools, 3) to use these tools to integrate some of the information learned earlier in the medical school curriculum, and 4) to introduce the ethical, legal, and social implications of genetic information and to provide tools for addressing these issues. SPRING. Clayton.

Emphasis Program. The Emphasis Program is designed to provide students with the opportunity to pursue research and scholarly activities during the first two years of medical school and, thereby, to prepare them to fill roles as leaders and scholars. In the fall semester, students will be introduced to eight possible areas of study. In consultation with course faculty, each student will then identify a project and a mentor in one of the eight areas. The second semester will be devoted to enriching their background in their chosen areas and developing the research plan for the project. For eight weeks during the summer between first and second year, students will carry out their research. In the fall semester of the second year, research will be completed, and the process of writing up the project will begin. During the spring semester of the second year, students will present the results of their research and prepare their reports in publishable form. FALL and SPRING. O'Day.

Web site: http://www.mc.vanderbilt.edu/medschool/courwses/emphasis



Faculty

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Named and Distinguished Professors

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Second-Year Class

Raimy Raymond Amasha (B.A., Duke) Eugene, OR Christian Noel Anderson (B.S., Tennessee) Nashville, TN Smitha Arekapudi (B.A., Swarthmore) Chicago, IL Yael Aschner (B.S., North Carolina) Brentwood, TN Albert Attia (B.E., Vanderbilt) Charlotte, NC Thomas Michael Austin (B.S., West Florida) Crestview, FL Behin Barahimi (B.S., Vanderbilt) Nashville, TN Haritha Bodduluri (B.S., Duke) Louisville, KY Jeffrey Allen Bontrager (B.A., Taylor) Goshen, IN John Jacob Bottorf (B.S., Nevada [Reno]) Reno, NV Alissa Brooke Brekken (B.S., Wisconsin) Apple Valley, MN Joshua Nathan Bress (B.A., Harvard) Gilroy, CA Douglas Marshall Brinkley (B.S., Duke) Raleigh, NC Peter Andrew Brokish (B.S., Saint Louis) Champaign, IL Gregory John Broughton (B.S., Virginia) Henderson, KY Philip Jensen Budge (B.S., Brigham Young) Clovis, CA Kathryn Maura Canniff (B.S., Brown) Walpole, MA Marisa Cevasco (B.A., Pennsylvania) Long Valley, NJ Robert Ching Chan (B.S., Stanford) Baton Rouge, LA Davin Wilson Chark (B.S., Toronto) Toronto, Ontario, Canada David Yung-Ping Chong (B.S., Duke) Wheaton, IL Kathryn Michelle Clabo (B.S., Vanderbilt) Gatlinburg, TN Kathryn Macartney Cleaver (B.S., Yale) Bethesda, MD Kristina Marie Collins (B.S., Arizona State University) Peoria, AZ Katie Lane Cox (B.S., Rhodes) Powell, TN Colin Gable Crosby (B.S., Vanderbilt) Athens, GA Shawna Marie Cutting (B.A., Ithaca) Schoharie, NY Desi Lamont Dennis (B.A., Southern Illinois) Decatur, IL Stacy Lynn Dorris (B.A., Columbia [Chicago]) Yorkville, IL Stephen Thomas Duncan (B.S., Vanderbilt) Kenosha, WI Kevin Meyer Elias (B.A., Harvard) Chicago, IL Nafah Fananapazir (B.A., Virginia) Potomac, MD Andrea Suzanne Freyer (B.S., Yale) Downingtown, PA Jeanetta Walters Frye (B.S., Emory and Henry) Wytheville, VA Mahan Ghiassi (B.S., Vanderbilt) Brentwood, TN Mayshan Ghiassi (B.S., Vanderbilt) Brentwood, TN Monica Nicole Giles (B.A., George Washington) Columbus, GA

Mari Louise Asaoka Groves (B.S., Emory) Madisonville, KY Nitin Kumar Gupta (B.S., Duke) Duluth, GA Shobhana Satyendra Gupta (B.S., Vanderbilt) Nashville, TN Elizabeth Keating Hagmann (B.A., Yale) Cos Cob, CT Jason Jeffrey Halvorson (B.S., Notre Dame) Burnsville, MN Ashleigh Holoka Hegedus (B.A., Yale) Lynnfield, MA Clifford Tate Hepper (B.S., North Carolina) Brentwood, TN Amelia Judith Hessheimer (B.S., Texas A & M) Rio Rancho, NM Stephen Blake Hobbs (B.S., Vanderbilt) North Augusta, SC Joyce T. Hsu (B.S., Alabama) Huntsville, AL Jeannie Huh (B.S., United States Military Academy) Santa Cruz, CA Gregory Louis Hundemer (B.A., Case Western Reserve) Pensacola, FL Kevin McCoy James (B.S., Davidson) Oak Ridge, TN Shazi Jiang (B.S., Vanderbilt) Nashville, TN Dorlan Jamal Kimbrough (B.S., Duke) Birmingham, AL Clayton David Knox (B.A., Tennessee [Chattanooga]) Franklin, TN Frank Hanchong Lee (B.A., Vanderbilt) Potomac, MD Vivian Kim Lee (B.A., Princeton) Potomac, MD Elizabeth Nicole Lewis (B.A., Virginia-Ma) Allison Park, PA Kimberly Kari Ma (B.S., Iowa) Lincoln, NE Kevin Henry Maas (B.S., California [Berkeley]) Weed, CA Michael Charles Madigan (B.S., Notre Dame) Butler, PA Renee Lynn Makowski (B.S., United States Military Academy) Madison, AL Milica Markovic (B.S., Bennington) Cacak, Serbia Lynn Ann Martin (B.S., Vanderbilt) Butler, PA Leslie Michelle Meenderink (B.S., Yale) Roy, UT Daniel Adam Mordes (B.S., Duke) Stuart, FL Robert Stanley Morrison III (B.S., Millsaps) Long Beach, MS Robert Wesley Mutter (B.A., Yale) Winnipeg, Manitoba, Canada Tung Huu Nguyen (B.S., Yale) Fountain Valley, CA Ikwo Kitefre Oboho (B.S., Emory) Lawrenceville, GA Ana Luisa Jordao Perdigoto (B.S., Brown) Elizabeth, NJ Caroline Diane Sarah Piggott (B.A., Harvard) W. Vancouver, B.C.. Canada Adam Scott Pitts (D.D.S., Oklahoma Health Sciences Center) Sapulpa, OK Rosalyn Patrice Porter (B.S., Xavier [Louisiana]) Memphis, TN Victoria Celeste Porter (B.S., Florida A & M) Newport News, VA Michael Joseph Puchowicz (B.A., Colgate) Redington Shores, FL Usha Sathishchan Rao (B.A., Emory) Charleston, WV Amy Evelyn Rich (B.S., Boston) N. Palm Beach, FL Susan Dorsey Andrews Rickard (B.S., Duke) Murfreesboro, TN Reis Brandon Ritz (B.S., United States Military Academy) Houston, TX Jennifer Margaret Rosenbluth (B.A., Princeton) Yorktown, NY Ashley Jo Rowatt (B.A., Kenyon) Louisville, KY Courtney Reynolds Schadt (B.S., Kentucky) Lexington, KY Adam Troy Schaefer (D.D.M. Pittsburgh) Archbold, OH Mahnoosh Sharifi (B.S., Emory) Brentwood, TN Angela Delight Shields (B.S., Cornell) Nashville, TN Myrick Clements Shinall (B.A., Harvard) Atlanta, GA Christina Michelle Shuman (B.A., Harvard) Clearwater, FL Phillip Dean Smith (B.S., Davidson) Paducah, KY Jessica Rene Sparks (B.S., Mississippi State) Golden, MS

Emily M. Tarvin (B.A., Maryland [College Park]) North East, MD Phillip Roy Tennant (B.S., Wake Forest) Greensboro, NC Robert Gamble Thomas (B.S., Asbury) Waverly, AL Amanda Brooke Thompson (B.S., Vanderbilt) Conway, AR Steven Walter Thorpe (B.S., United States Air Force Academy) Clemmons, NC Keli Makela Turner (B.S., Vanderbilt) Chattanooga, TN Mercy Adaobi Udoji (B.S., Tennessee State) Brentwood, TN Louise Elaine Vaz (B.S., Duke) Lake Charles, LA Bethaney June Vincent (B.S., George Washington) Kenner, LA Donna Marie Vleugels (B.A., Virginia) Dublin, OH Nicole Marie Walker (B.A., North Carolina) Panama City, FL Erik E-Kai Wang (B.A., Dartmouth) Lexington, MA Himali Sheshtra Wijesooriya (B.A., Mount Holyoke) Nashville, TN Judson Blount Williams (B.A., Princeton) Raleigh, NC Kel Vin Woo (B.S., Duke) Nashville, TN Julia Kristina Wood (B.A., Wellesley) Plymouth, MN Fred Yong-tao Wu (B.A., California [Berkeley]) San Francisco, CA Stephanie Jialing Yang (B.S., California [Berkeley]) Northridge, CA Jessica Lauren Young (B.A., Chicago) Rockwood, TN

Third-Year Class

Courtney Joy Aavang (B.S., Illinois) Woostock, IL Brian Kenny Armstrong (B.S., Emory) Memphis, TN David William Azar (B.S., Clark) Swansea, MA Sanmit Kumar Basu (B.S., Notre Dame) Granger, IN John Joseph Belletti (B.A., Harvard) Manhasset, NY Parul Pankaj Bhatt (B.S., Vanderbilt) Martinez, GA Emily Elizabeth Binkley (B.A., Harvard) Cambridge, MA Amy Susannah Black (B.S., Tennessee [Knoxville]) Franklin, TN Robert Ernest Boykin (B.S., North Carolina) Horatio, SC Eric James Brantley (B.S., Duke) Nashua, NH Jacob Forrest Busler (B.S., Rhodes) Lewisburg, TN Andrew S. Camarata (B.S., Florida State) Nashville, TN Kathryn Pierce Celauro (B.A., North Carolina) Nashville, TN Evonne Janelle Charboneau (B.S., Washington) Washington, DC Cindy Neng-Chi Chin (B.S., Brown) San Francisco, CA Guy Travis Clifton (B.S., United States Military Academy) Houston, TX Michael Brian Cross (B.A., Washington) Brownsburg, IN Kyle Clifford Cuneo (B.S., Cornell) New York, NY Elizabeth Louise Dale (B.S., Massachusetts Institute of Technology) Nashville, TN Jean Michele Dobson (B.S., Vanderbilt) Arkansas City, KS Keith Cooper Douglas (B.A., Virginia) Louisville, KY Dwayne Everett Dove (B.S., Clemson) Nashville, TN Racquel Jeanne Duval (B.A., Washington) Pembroke Pines, FL Peter William Kenneth Eyler (B.E. Auburn) Warm Springs, GA Joshua Patrick Fessel (B.S., Evansville) Vincennes, IN Mary Elizabeth Fleming (B.S., Xavier) Louisville, KY Jonathan William Frederick (B.S., North Alabama) Tuscumbia, AL Eitan Ari Friedman (B.S., Brandeis) Dunwoody, GA

Ryan Fitz Gibbons (B.S., Westmont) Granite Bay, CA Brian Wallace Gray (B.S., Notre Dame) Carmel, IN Ryan Joseph Grippo (B.S., Pennsylvania State) Clearfield, PA Anita Owen Gupta (B.A., Virginia) Portsmouth, VA Matthew Robert Hall (B.A., Princeton) Columbus, GA Celeste Ojeda Hemingway (B.S., Vanderbilt) San Antonio, TX Stephen David Humm (B.A., Redlands) Las Vegas, NV Kaitlin Campbell James (B.A., Oberlin) Alexandria, VA Gautam Jayaram (B.A., Washington) Orland Park, IL Douglas Scott Johnson (B.A., Haverford) Nashville, TN David Allan Joos (B.S., Weber State) Ogden, UT Sveta A. Karelsky (B.A., California) Cupertino, CA Nicholas James Kassebaum (B.A., Macalester) Outlook, WA John Athanasios Kazianis (B.S., Brown) Cranston, RI Clinton Dunkel Kemp (B.A., Princeton) Manheim, PA Richard Garrett Key (B.A., Vanderbilt) Austin, TX Vijay Khetpal (B.A., Vanderbilt) Durant, OK Eric Sung-Yung Kim (B.S., Brown) Chung-Ju, Choongbuk, S. Korea Kerry Lynn Kusz (B.S., Boston) Iron Mountain, MI Jacqueline S. Landess (B.A., Indiana University-Purdue) Daleville, IN Matthew Paul Landman (B.A., Northwestern) Hull, IA Timothy Bernard Lautz (B.A., Harvard) Wauwatosa, WI Tyler Yang Mao Lee (B.A., California) San Jose, CA Natalie Anne Lester (B.A., Harvard) Gahanna, OH Sabina Nicole Leung (B.A., Stanford) Naperville, IL Asha Tendayi Logan (B.A., Harvard) New York, NY Christopher Alan Lundquist (B.S., Iowa) Nashville, TN Bonnie Suzanne Mackenzie (B.A., Vanderbilt) Centerville, OH Edward Alexander McGillicuddy (B.S., Vermont) Quincy, MA Scott Anthony Miller (B.S., U.S. Naval Academy) Cheyenne, WY Rekha Natwar Mody (B.S., Vanderbilt) Charlotte, NC Enioloa Fatima Mudosiru (B.A., Fisk) Lagos, Nigeria Alison Winesett Newman (B.S., Florida) Fort Myers, FL William Jarred Newman (B.S., Florida) Winter Park, FL Hilary Highfield Nickols (B.A., Washington) Nashville, TN Ibironke Oduyebo (B.S., Maryland) New Carrollton, MD Bimal Bhupatrai Padaliya (B.S., Duke) Travelers Rest, SC Nicholas Demitri Pappas (B.A., Princeton) Metairie, LA Trusharth Arvind Patel (B.S., Vanderbilt) Powder Springs, GA Matthew Reed Peachey (B.S., Middle Tennessee State) Columbia, TN David Eugene Penner (B.A., Washington) Longview, WA Tracy Lynn Pepper (B.S., Tulsa) Altus, OK Anne Elizabeth Phillips (B.S., Duke) Milford, OH Anupam Kumar Pradhan (B.S., Duke) Bluefield, VA David Fredric Ritsema (B.S., Calvin) Denver, CO Elisabeth Dianne Riviello (B.A., Harvard) Santa Barbara, CA Robin C. C. Ryther (B.S., Missouri) St. Charles, MO Kelly Nicole Sawyer (B.S., Notre Dame) Brighton, MI Carol Elizabeth Senkler (B.A., Maryland) Hockessin, DE Manish N. Shah (B.A., Princeton) Parsippany, NJ Purvi Kaushik Shah (B.A., Washington) Silver Spring, MD

Julia Shaklee (B.A., Vanderbilt) Olathe, KS John Hyoungsub Shin (B.A., Harvard) Richmond, VA Nader Ahmed Shourbaji (B.S., Tulane) Harahan, LA Neha Mahesh Shroff (B.A., Dartmouth) North Attleboro, MA Andrea Michelle Subhawong (B.S., Vanderbilt) Coconut Grove, FL Ty Kanyn Subhawong (B.S., Vanderbilt) Clarksville, TN Nicholas Peter Taraska (B.S., Vanderbilt) Evansville, IN Robert Hill Thiele (B.S., Virginia) Charlottesville, VA John Brown Thomison (B.A., Williams) Nashville, TN Adam David Tibble (B.A., Notre Dame) Northville, MI Claire Anne Turchi (B.A., Pomona) Lake Oswego, OR Christopher James Welty (B.A., Dartmouth) Alamo, CA Lisa Marie White (B.S., Tennessee [Knoxville]) Pelham, TN Lydia Ann White (B.S., Tennessee [Knoxville]) Pelham, TN Catherine Oelschig Wiggleton (B.A., Stanford) Fullerton, CA Casey Elizabeth Wilford (B.S., Kentucky) Lexington, KY Tracey Allyson Wilkinson (B.A., Northwestern) Nashville, TN Cynthia Nicole Wilson (B.S., David Lipscomb) Manassas, VA Wendy Wilson (B.A., Florida State Unversity) Tallahassee, FL Jason Aaron Winston (B.A., Columbia) Atlanta, GA Kristy Marie Wolske (B.A., Yale) Remer, MN Dean Jared Yamaguchi (B.S., California [Los Angeles]) Woodland Hills, CA Lisa Fang Zhao (B.S., California) Alhambra, CA

Fourth-Year Class

Courtney Joy Aavang (BS, Illinois) Woostock, Illinois Brian Kenny Armstrong (BS, Emory) Memphis, Tennessee David William Azar (BS, Clark), Massachusetts Sanmit Kumar Basu (BS, Notre Dame) Granger, Indiana John Joseph Belletti (BA, Harvard) Manhasset, New York Parul Pankaj Bhatt (BS, Vanderbilt) Martinez, Georgia Emily Elizabeth Binkley (BA, Harvard) Cambridge, Massachusetts Robert Ernest Boykin (BS, North Carolina), South Carolina Eric James Brantley (BS, Duke) Nashua , New Hampshire Jacob Forrest Busler (BS, Rhodes College) Tullahoma, Tennessee Andrew S Camarata (BS, Florida State) Nashville, Tennessee Kathryn Pierce Celauro (BA, North Carolina) Nashville, Tennessee Evonne Janelle Charboneau (BS, Washington) Washington, Dist. Of Col. Cindy Neng-Chi Chin (BS, Brown) San Francisco, California Guy Travis Clifton (BS, United States Military Academy), Texas Michael Brian Cross (BA, Washington) Nashville, Tennessee Elizabeth Louise Dale (BS, Massachusetts Institute Of Technology) Nashville, Tennessee Jean Michele Dobson (BS, Vanderbilt) Arkansas City, Kansas Keith Cooper Douglas (BA, Virginia) Louisville, Kentucky Racquel Jeanne Duval (BA, Washington) Pembroke Pines, Florida Peter William Kenneth Eyler (BS, Auburn) Warm Springs, Georgia Mary Elizabeth Fleming (BS, Xavier) Louisville, Kentucky Ryan Fitz Gibbons (BS, Westmont College) Nashville, Tennessee Ryan Joseph Grippo (BS, Pennsylvania State) Clearfield, Pennsylvania

Anita Owen Gupta (BA, Virginia) Portsmouth, Virginia Jose Edward Hagan (B.A., The Johns Hopkins) E. Greenwich , Rhode Island Matthew Robert Hall (AB, Princeton) Belton, Texas Celeste Ojeda Hemingway (BS, Vanderbilt) San Antonio, Texas Stephen David Humm (BA, The Redlands) Las Vegas, Nevada Kaitlin Campbell James (BA, Oberlin College) Alexandria, Virginia Gautam Jayaram (BA, Washington) Orland Park , Illinois Douglas Scott Johnson (BA, Haverford College) Franklin, Tennessee David Allan Joos (BS, Weber State) Ogden, Utah Sveta A Karelsky (BA, California - Berkeley) Cupertino, California John Athanasios Kazianis (BS, Brown) Cranston, Rhode Island Clinton Dunkel Kemp (BA, Princeton) Manheim, Pennsylvania Richard Garrett Key (B.S., San Francisco State) Nashville, Tennessee Vijay Khetpal (BA, Vanderbilt), Not Specified Eric Sung-Yung Kim (BS, Brown) Chung-Ju, Choongbuk, Not Specified Kerry Lynn Kusz (BS, Boston) Iron Mountain, Michigan Matthew Paul Landman (BA, Northwestern College) Hull , Iowa Tyler Yang Mao Lee (BA, California - Berkeley) San Jose, California Natalie Anne Lester (BA, Harvard) Gahanna, Ohio Sabina Nicole Leung (BA, Stanford) Naperville, Illinois Asha Tendayi Logan (BA, Harvard) New York, New York Bonnie Suzanne Mackenzie (BA, Vanderbilt), Not Specified Edward Alexander McGillicuddy (BS, Vermont) Quincy, Massachusetts Rekha Natwar Mody (BS, Vanderbilt) Charlotte, North Carolina Eniola Fatima Mudasiru (BA, Fisk) Nashville, Tennessee Lance Luker Needham (B.A., Princeton) Nashville , Tennessee Alison Winesett Newman (BS, Florida) Fort Myers, Florida William Jarred Newman (BS, Florida) Winter Park, Florida Gavin Daniel O'Mahony (BS, Maryland) New Carrollton, Maryland Ibironke Oduyebo (B.A., Univ Dublin Trinity College) Nashville, Tennessee Bimal Bhupatrai Padaliya (BS, Duke) Travelers Rest, South Carolina Nicholas Demitri Pappas (BA, Princeton) Metairie, Louisiana Trusharth Arvind Patel (BS, Vanderbilt) Powder Springs, Georgia Matthew Reed Peachey (BS, Middle Tennessee State) Columbia, Tennessee David Eugene Penner (BA, Washington) Longview, Washington Anne Elizabeth Phillips (BS, Duke) Nashville , Tennessee Anupam Kumar Pradhan (BS, Duke) Bluefield, Virginia David Fredric Ritsema (BS, Calvin College) Denver, Colorado Elisabeth Dianne Riviello (BA, Harvard) Santa Barbara, California Kelly Nicole Sawyer (BS, Notre Dame) Brighton , Michigan Carol Elizabeth Senkler (BA, Maryland) Hockessin, Delaware Manish N Shah (BA, Princeton) Parsippany, New Jersey Fourth Year Class Purvi Kaushik Shah (BA, Washington) Silver Spring, Maryland Julia Francis Shaklee (BA, Vanderbilt) Olathe, Kansas John Hyoungsub Shin (BA, Harvard) Richmond , Virginia Neha Mahesh Shroff (BA, Dartmouth College) North Attleboro, Massachusetts Eran Myranda Stanley (B.A., Virginia) Nashville, Tennessee Ty Kanyn Subhawong (BS, Vanderbilt) Clarksville, Tennessee Andrea Michelle Subhawong (BS, Vanderbilt) Coconut Grove, Florida Nicholas Peter Taraska (BS, Vanderbilt) Evansville, Indiana

Robert Hill Thiele (BS, Virginia) Charlottesville, Virginia John Brown Thomison (BA, Williams College) Nashville, Tennessee Adam David Tibble (BA, Notre Dame) Northville, Michigan Claire Anne Turchi (BA, Pomona College) Lake Oswego, Oregon Amy Susannah Valet (BS, Tennessee) Nashville, Tennessee Olga Kagan Weinberg (BS, Chicago) Aventura, Florida Lisa Marie White (BS, Tennessee) Pelham, Tennessee Lydia Ann White (BS, Tennessee) Pelham, Tennessee Catherine Oelschig Wiggleton (BA, Stanford) Hendersonville, Tennessee Casey Elizabeth Wilford (BS, Kentucky) Lexington, Kentucky Tracey Allyson Wilkinson (BA, Northwestern) Nashville, Tennessee Cynthia Nicole Wilson (BS, David Lipscomb) Manassas, Virginia Jason Aaron Winston (BA, Columbia) Atlanta, Not Specified Kristy Marie Wolske (BA, Yale) Remer, Minnesota Dean Jared Yamaguchi (BS, California, Los Angeles) Woodland Hills, California

Medical Scientist Training Program (M.D./Ph.D.) 2005/2006

Omonigho Augustina Aisagbonhi (B.S., California State [Long Beach]) Inglewood, California Christopher Edward Barbieri (B.A., Dartmouth) Nashville, Tennessee Jeffrey Bennett (B.S., Pittsburgh) Jaffrey, New Hampshire Mica Yael Bergman (B.S., Stanford), Pennsylvania Philip Jensen Budge (B.S., Brigham Young) Nashville, Tennessee Leigh Anne Compton (B.S., Centenary of Lousiana) Nashville, Tennessee Ildiko Csiki (B.S., B.A., Arkansas, Fayetteville) Nashville, Tennessee Dwayne Everett Dove (B.S., Clemson) Nashville, Tennessee Elizabeth Ann Eby (B.S., California, Berkeley) San Carlos, California Kathryn Grace Eby (B.S., Southwestern) Katy, Texas Joshua Patrick Fessel (B.S., Evansville) Nashville, Tennessee Aliya Frederick (B.A., B.S., Maryland) Cheltenham, Pennsylvania Curtis Gabriel (B.A., Johns Hopkins) Antigo, Wisconsin Britney Lynne Grayson (B.S., Baylor) Tulsa, Oklahoma Katharine Gurba (B.A., Rice) Leawood, Kansas Alison Jean Hanson (B.A., Colgate) Norwalk, Iowa Aaron Nathaniel Hata (B.S., Wheaton) Nashville, Tennessee Aubrey Ann Salvino Hunt (B.S., Vanderbilt) Marietta, Georgia Andrew Lloyd Lundquist (B.S., Harvard) Nashville, Tennessee Christopher Alan Lundguist (B.S., Iowa) Nashville, Tennessee Kevin Henry Maas (B.S., California [Davis]) Weed, California Nicholas Markham (B.A., Colby) Carmel, Indiana Erin Julia McArdle (B.S., Yale) Nashville, Tennessee Jude McElroy (B.A., Washington University [St. Louis]) New York, New York Julia McHugh (B.S., Iowa) Marion, Indiana Joel Musee (B.A., Oberlin) Baltimore, Maryland Erik Steven Musiek (B.S., William and Mary) Nashville, Tennessee Hilary Highfield Nickols (BA, Washington) Nashville, Tennessee William Paul Nobis (B.S., Michigan State) Nashville, Tennessee Albert Powers (B.A., Yale) Northford, Connecticut Rachel Byerley Reinert (B.S., B.A., Southern Indiana) New Albany, Indiana Robin C. C. Ryther (B.S., Missouri [Columbia]) Nashville, Tennessee

Stewart Oliver Sanford (B.S., Presbyterian) Greenwood, South Carolina Vikas Navin Shah (B.Sc., B.A., Michigan State) Nashville, Tennessee Fyza Shaikh (B.S., Ohio State) Houston, Texas Victor Soukoulis (B.A., Vanderbilt/Iowa State) Nashville, Tennessee Aleksandar Stanic-Kostic (B.S., Novi Sad [Yugoslavia]) Nashville, Tennessee Thuy Tran (B.S., Emory) Roswell, Georgia Amy Robichaux Viehoever (B.E., Catholic University of America) Nashville, Tennessee

Combined M.D./J.D. Program

David McAvoy Chooljian (-, -) Camarillo , California

Combined M.D./M.P.H. Program

Michael Joseph Blaha (B.S., Notre Dame) Morgantown, West Virginia

Class of 2005 Residency Assignments

Anna Irene Abramovitch	Clemson, S.C.
Spartanburg Regional Healthcare, Spartanburg, S.C. (Transitional))
Chicago Hospital, Chicago, Ill. (Radiology-Diagnostic)	
Douglas Wayne Adkisson	Bath Springs, Tenn.
Vanderbilt Medical Center, Nashville, Tenn. (Internal Medicine)	
Julie Sara Alonso-Katzowitz	Marietta, Ga.
Cincinnati Children's Hospital, Cincinnati, Ohio (Pediatrics /Psychiat	ry/Child Psychiatry)
Maziyar Amini V	Noodland Hills, Calif.
Southern California, Los Angeles, Calif. (Internal Medicine)	
Justin Matthew Bachmann	Aurora, Mo.
Vanderbilt Medical Center, Nashville, Tenn. (Research)	
Molly Katherine Ball	Columbus, Ohio
Cincinnati Children's Hospital, Cincinnati, Ohio (Pediatrics)	
Liya Beyderman	West Caldwell, N.J.
Vanderbilt Medical Center, Nashville, Tenn. (Neurology)	
Rhonda Lynn Bitting	Pittsburgh, Pa.
UC San Francisco, San Francisco, Calif. (Internal Medicine)	
Lola Youmans Blackwell	Fairview, Tenn.
Vanderbilt Medical Center, Nashville, Tenn. (Neurological Surgery)	
Roberto Alejandro Blanco	Columbia, Md.
North Carolina Hospitals, Chapel Hill, N.C. (General Psychiatry)	
James Lewis Boswell	Seguin, Texas
Chicago Hospital, Chicago, III. (Anesthesiology)	
Danielle Boudreau Holt	Arrington, Tenn.
Tripler Army Medical Center, Tripler AMC, HI (General Surgery)	
Michael Edward Bowen	Brighton, Mass.
Vanderbilt Medical Center, Nashville, Tenn. (Medicine-Pediatrics)	
Jessica Dawn Bradford	Saint Joseph, Mich.
Rochester/Strong Memorial, Rochester, N.Y. (Medicine-Pediatrics)	

School of Medicine / Faculty

Ξ

Tamara Lynn Buckles	Potomac, Md.
Vanderbilt Medical Center, Nashville, Tenn. (Pediatrics)	
Jennifer Leigh Cannon	Yankton, S.Dak.
Tennessee College of Medicine, Memphis, Tenn. (Pediatrics)	
Robert Paul Carson	Chillicothe, Ohic
Vanderbilt Medical Center, Nashville, Tenn. (Pediatrics)	
Vanderbilt Medical Center, Nashville, Tenn. (Child Neurology)	Toinoi Toiwon
Alison Kristen Chapman Duke Medical Center, Durham, N.C. (Pediatrics)	Taipei, Taiwan
Joan Weichun Chen	Wheaton, III.
Northwestern McGaw/NMH/VA, Chicago, III. (Internal Medicine)	wheaton, m
Paul Yungwei Chong	Provo, Utah
Vanderbilt Medical Center, Nashville, Tenn. (Orthopaedic Surgery)	11000, 0141
Howard Kael Christianson	Provo, Utah
HealthOne Alliance, Denver, Colo. (Transitional)	11010, 014
Duke Medical Center, Durham, N.C. (Radiology-Diagnostic)	
	t Lauderdale, Fla.
HealthOne Alliance, Denver, Col. (Transitional)	,
Duke Medical Center, Durham, N.C. (Radiology-Diagnostic)	
Matthew Alan Day	Nashville, Tenn.
Carilion Health Systems, Roanoke, Va. (Transitional)	
Vanderbilt Medical Center, Nashville, Tenn. (Radiology-Diagnostic)	
Nikhil Kishor Desai	Franklin, Pa
Vanderbilt Medical Center, Nashville, Tenn. (Oral/Maxillo-Facial Surge	ery)
	Creve Coeur, Mo.
North Carolina Hospitals, Chapel Hill, N.C. (Medicine-Pediatrics)	
Michael Anthony Fallucco	Clarksville, Tenn.
St. Louis School of Medicine, St. Louis, Mo. (Surgery-Plastic Surgery)	
Rachel Christine Forbes	Austin, Texas
Vanderbilt Medical Center, Nashville, Tenn. (General Surgery)	Neeks ille Terre
Lesley Christine French	Nashville, Tenn.
Vanderbilt Medical Center, Nashville, Tenn. (Otolaryngology) Rachel Leigh Glick	Saint Louis, Mo.
Northwestern McGaw/CMH, Chicago, III. (Pediatrics)	Saint Louis, Mo.
Mark Gorelik	Minden, NV
Cincinnati Children's Hospital, Cincinnati, Ohio (Pediatrics-Preliminar	
University Hospital of Cincinnati, Cincinnati, Ohio (Radiology-Diagnos	
Tristan Lazaro Gorrindo	Indiana, Pa
Massachusetts General Hospital, Boston, Mass. (Psychiatry/Pediatric	,
Massachusetts General Hospital, Boston, Mass. (Psychiatry/Adult + (
Michelle Leslie Griffith	Edina, Minn.
Vanderbilt Medical Center, Nashville, Tenn. (Internal Medicine)	
Jill Marie Guelich	Oakton, Va.
Northwestern McGaw/NMH/VA, Chicago, Ill. (Obstetrics/Gynecology)	
	Birmingham, Mich.
Hospital for Special Surgery/Cornell, New York, N.Y. (Orthopaedic Su	
Abigail Hamilton	Lake Forest, III.
Massachusetts General Hospital, Boston, Mass. (Harvard Combined	Orthopedic
Surgery)	01
David Edward Hamming	Storrs, Conn.
Minnesota, Minneapolis, Minn. (Orthopaedic Surgery)	

Kent Stuart Handfield	Portland, Oreg.
Naval Medical Center, San Diego, Calif. (General Surgery)	
Jacob Walter Hathaway	Morgantown, W.Va.
Vanderbilt Medical Center, Nashville, Tenn. (Internal Medicine)	Duration of Taxa
Travis Scott Henry	Brentwood, Tenn.
Vanderbilt Medical Center, Nashville, Tenn. (Medicine-Prelimary)	
Barnes-Jewish Hospital, St. Louis, Mo. (Radiology-Diagnostic)	Commodene De
Eric Andrew Himmelfarb	Commodore, Pa.
Vanderbilt Medical Center, Nashville, Tenn. (Pathology) David John Hinkle	San Jose, Calif.
St. Louis Children's Hospital, St. Louis, Mo. (Pediatrics)	San Juse, Call.
Washington, St. Louis, Mo. (Child Neurology)	
Lam Hoang	Potomac, Md.
Vanderbilt Medical Center, Nashville, Tenn. (Oral/Maxillo-Facial Su	
Daniel Kayun Hoh	Bridgewater, Mass.
Cambridge Hospital/CHA, Cambridge, Mass. (Transitional)	Diagonatol, mado.
UCLA Medical Center, Los Angeles, Calif. (Emergency Medicine)	
Matthew James Howenstein	Belleville, III.
St. John's Mercy Medical Center, St. Louis, Mo. (Transitional)	,
Northwestern McGaw/NMH/VA, Chicago, Ill. (Radiology-Diagnostic	2)
Plomarz Irani	Santa Clara, Calif.
Pittsburgh Medical Center, Pittsburgh, Penn. (Emergency Medicine	e)
Bert Suthers Ivey	Cincinnati, Ohio
Indiana Medical Center, Indianapolis, Ind. (Urology)	
Tamara Christine Jackson	Phoenix, Ariz.
Carilion Health Systems, Ronaoke, Va. (Transitional)	
Vanderbilt Medical Center, Nashville, Tenn. (Radiology-Diagnostic))
Katherine Gilleland Joslin	Livermore, Calif.
Vanderbilt Medical Center, Nashville, Tenn. (Pediatrics)	
Kavita Sondh Juneja	Dallas, Texas
Texas S.W. Medical School, Dallas, Texas (Internal Medicine)	
Arvindh Navaratnam Kanagasundram	Singapore
Stanford, Palo Alto, Calif. (Internal Medicine)	
Charles William Kanaly	San Diego, Calif.
Duke Medical Center, Durham, N.C. (Neurological Surgery)	
Sharon Chee-Wah Kiang	Potomac, Md.
Yale-New Haven Hospital, New Haven, Conn. (General Surgery)	Manuala
Katherine Ann Koepke Hennepin County Medical Center, Minneapolis, Minn. (Surgery-Pre	Monroe, La.
Minnesota, Minneapolis, Minn. (Otolaryngology)	fiiriinaiy)
	Farmington, N. Mex.
Vanderbilt Medical Center, Nashville, Tenn. (Pediatrics)	r armington, N. Mex.
	Albuquerque, N.Mex.
Vanderbilt Medical Center, Nashville, Tenn. (Pediatrics)	
Theresa Ann Larson	Jamestown, N.Dak.
Mayo Graduate School of Medicine, Rochester, Minn. (Medicine-P	
Mayo Clinic, Rochester, Minn. (Ophthalmology)	
Maria Dimitrova Latev	San Jose, Calif.
Vanderbilt Medical Center, Nashville, Tenn. (Otolaryngology)	
Jamie Lee Lesnock	Washington, Pa.
Pittsburgh Medical Center, Pittsburgh, Penn. (Obstetrics/Gynecolo	gy)

School of Medicine / Residency Assignments

Ξ

Alicia Fonseca Liang	Hermitage, Tenn.
Pittsburgh Medical Center, Pittsburgh, Penn. (Pathology) Han-chun Liang	San Diego, Calif.
Pittsburgh Medical Center, Pittsburgh, Penn. (Psychiatry) James Mark Lin	Yorktown Heights, N.Y.
Michigan Hospitals, Ann Arbor, Mich. (Internal Medicine) Nicole Renee Longanecker	San Antonio, Texas
Hospital of the Pennsylvania, Philadelphia, Penn. (Medicine-Prir	
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Vanderbilt Medical Center, Nashville, Tenn. (Psychiatry) Sudave Daniel Mendiratta	Cleveland, Tenn.
Emory School of Medicine, Atlanta, Ga. (Emergency Medicine) Raymond Dean Nava	Dunwoody, Ga.
Tulane School of Medicine, New Orleans, La. (General Surgery) Carolyn Viet-Chau T. Nguyen Beth Israel Medicine Center, New York, NY (Surgery-Preliminary	Anhattan Beach, Calif.
Albert Einstein College of Medicine, New York, NY (Otolaryngol Purnima Sharad Patel	
Emory School of Medicine, Atlanta, Ga. (Transitional) Emory, Atlanta, Ga. (Ophthalmology) Rajiv Ramesh Rathod	Orange, Calif.
Santa Clara Valley Medical Center, San Jose, Calif. (Transitional)
Washington, St. Louis, Mo. (Ophthalmology) Airron Lamar Richardson	Toledo, Ohio
Chicago Hospital, Chicago, III. (Emergency Medicine) Trevor Alan Robison	Lincoln, Nebr.
Northwestern McGaw/NMH/VA, Chicago, III. (Anesthesiology) Danielle Leigh Rode	Overland Park, Kans.
Vanderbilt Medical Center, Nashville, Tenn. (Pediatrics) Ornob Roy	Columbia, S.C.
Virginia, Charlottesville, Va. (Urology)	
Aaron Joel Schueneman Naval Medical Center, Portsmouth, Va. (Transitional)	Woodstock, Ga.
Stephen Holloway Settle Vanderbilt Medical Center, Nashville, Tenn. (Medicine-Prelimina)	Santa Rosa, Calif.
TX M D Anderson Cancer Center, Houston, Texas (Radiation-Or Steven Thomas Shaba	
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Natalie Montgomery Spradlin	Nashville, Tenn.
Vanderbilt Medical Center, Nashville, Tenn. (Internal Medicine) Scott James Stephan	Grand Junction, Colo.
Virginia, Charlottesville, Va. (Otolaryngology) Jennifer Hsujen Tai	Cerritos, Calif.
Vanderbilt Medical Center, Nashville, Tenn. (Research)	

Ravi Tandon	Tulsa, Okla.
Vanderbilt Medical Center, Nashville, Tenn. (Surgery-Preliminary)	
David Nathaniel Trickey	Ronan, Mont.
Darnall Army Community Hospital, Fort Hood, Texas (Emergency Me	edicine)
William H. Tu	Gaithersburg, Md.
Stanford, Palo Alto, Calif. (Urology)	
Robert Scott Valet	Brockport, N.Y.
Vanderbilt Medical Center, Nashville, Tenn. (Internal Medicine)	
Yuri Frederik Van der Heijden	Lilburn, Ga.
Vanderbilt Medical Center, Nashville, Tenn. (Internal Medicine)	
Michael Terry Wilson	Brandywine, Md.
Massachusetts General Hospital, Boston, Mass. (Internal Medicine)	3
Sarah Elizabeth Winbourn	Denver, Colo.
Colorado School of Medicine, Denver, Colo. (Pediatrics)	,
James Hunter Wood	Baton Rouge, La.
Vanderbilt Medical Center, Nashville, Tenn. (Surgery-Preliminary)	J
Chadwick Wu	Westwood, Calif.
Pennsylvania Hospital, Philadelphia, Penn. (General Surgery)	Wootwood, oam.
	er, British Columbia
UCLA Medical Center, Los Angeles, Calif. (Pathology)	
OCEA Medical Center, Eos Angeles, Calli. (Latiology)	

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Vanderbilt University Hospital and The Vanderbilt Clinic: Leading the Way in Medicine

ROM its founding almost a century ago, Vanderbilt University Hospital has grown into the pr esent extensive medical center complex, housing some of the most renowned medical specialists and the latest in medical technology. Although Vanderbilt is home to Nobel Laur eates and is a r ecognized center for r esearch in all phases of medicine, it retains the compassion and caring that has underscored its philosophy since its inception.

Vanderbilt University Hospital

A twin-towered, 658-bed structure designed to accommodate every patient need, the eleven-story hospital places the latest in technology in an aesthetically pleasing environment.

The skill of V anderbilt medical and nursing teams is maximized in a setting that pr omotes quality patient car e through efficiency of design. Medically related areas are grouped so patients needing specialized car e can be served to the best advantage, as in the Neuro Care Unit. The hospital's lower floors house the Emer gency Department, serviced by special elevators that convey patients directly to the operating r ooms, labor and delivery, ancillary services such as EEG and EKG, and radiology.

Each of the inpatient towers has a nursing cor e, so no room is far from a nurses' station. A central area, connecting the two patient towers, contains elevators, conference rooms, and waiting areas for visitors.

Patient-centered care, a r esult of the collaborative ef forts of medical, nursing, and other health care professionals, is the cornerstone of the hospital's mission. This approach led to the reorganization of clinical delivery into patient car e centers for Behavioral Health, Cancer , Cardiovascular, Children's, Medicine/Medical Specialties, Ophthalmology, Orthopaedics, Surgical Services, Trauma, and Women's Services. Each center is led by a physician/administrative team that designs care to meet the needs of patients.

Level I Trauma Center and Emergency Department

Vanderbilt University Hospital operates the only Level I T rauma Center in Middle T ennessee. It is one of five in the state. The twenty-bed Emergency Department pr ovides care for patients of all ages and is the entry point for 30 per cent of hospital admissions. A Pediatric Emergency Department opened in 1997 to of fer emergency care and urgent care services in a specialized child/family-focused environment.

LifeFlight

The LifeFlight air medical transport service pr ovides quick access to medical care in emer gencies. The r ooftop helipad and elevator pr ovides rapid access to the Emergency Department, operative services, and intensive care units. The service operates within a 150-mile radius of Nashville and is staf fed by a team of fully certified pilots and specially trained nurses. The 24-hour dedicated dispatch center is located in Medical Center North.

Monroe Carell Jr. Children's Hospital at Vanderbilt

The Monroe Carell Jr. Children's Hospital at Vanderbilt is dedicated to meeting the unique health car e needs of childr en, from newborns to young adults, by providing primary and sub-specialty services and serving as a regional referral center. By continuing to invest in the future wellbeing of children, families and the community, the hospital is committed to furthering family-center ed care, research, technology, and education. The new building opened in February 2004 with a mission to:

• Provide quality, compassionate, ethical, and cost-effective care of the highest standards based on what is best for children and their families.

• Offer a full range of services to childr en, including primary car e, health maintenance, and disease prevention.

 Serve as a regional and national referral center for children and their families who require the most advanced diagnostic and therapeutic ser vices.

• Conduct research and provide education that contributes to improving medical car e and pr ocedures and the futur e well-being of childr en and families.

• The new hospital provides:

Inpatient Beds	206
Intensive Care	36
Neonatal ICU	60 (plus 12 in VUH; total: 72)
Emergency Dept.	25 (plus 3 triage and 10 observation)
Operating Rooms	12 (eventually 16)

Research

As part of a world-r enowned academic medical r esearch center, VCH has access to the most advanced car e available and is continually sear ching for more answers to serve our families.

The Vanderbilt Clinic

In 2003, The Vanderbilt Clinic had more than 698,900 patient visits, and more than 33,800 patients were admitted to Vanderbilt Hospital, with a substantial number of patients from outside Tennessee. A principal referral center for physicians and patients thr oughout the r egion, V anderbilt University Hospital and The Vanderbilt Clinic consistently rank among the premier health car e facilities in the United States. V anderbilt University Medical Center is ranked among the for emost programs in the nation by *U.S. News & W orld Report* in their 2004 edition of "America's Best Hospi tals" in nine of twelve major services ranked. V anderbilt was the only hospital in Tennessee to be on the *U.S. News & World Report* Honor Roll in 2003.

Vanderbilt's programs in cancer; ear, nose, and throat; hormonal disorders; gynecology; kidney disease; orthopaedics; pulmonary disease; rheumatology; and urology were assessed among the best such programs nationally.

Among Vanderbilt's specialty clinics is the V anderbilt Ingram Cancer Center (VICC). The VICC, a National Cancer Institute Compr ehensive Cancer Center, provides care for cancer patients along with basic and bench-to-bedside research. The state-of-the-art research program provides the latest br eakthroughs in tr eatments for our patients. Additionally, VUMC's Level I trauma center, comprehensive burn center and LifeFlight air emergency transport program offer critical trauma care for a three-state region. The Vanderbilt Children's Hospital and its nineteen specialty services, including the level IV neonatal intensive car e unit and a dedicated pediatric emergency department, ar e the only pr ograms of their kind in Middle Tennessee. The V anderbilt Heart Institute has become one of the nation's foremost cardiac research programs. The V anderbilt Transplant Center is the most active in the r egion with 400 transplants performed in 2004. The Faculty Practice Clinic network includes five primary car e centers, three school health clinics, and a women's health center. During fiscal year 2004, these clinics tr eated more than 20,000 patients. The Faculty Nurse Midwifery Service deliver ed 387 babies at V anderbilt Hospital. All clinics are staffed by faculty nurse practitioners and nurse midwifes. VUSN nurse practitioners/nurse midwifery students do clinical r otations at these sites as part of their education.

Day Surgery Center

Day surgery is ideal for many patients who require relatively brief procedures with limited anesthetic and sur gical risks. Such operations ar e performed without overnight hospitalization, decreasing the cost but not the quality of care. The center provides excellent facilities for these procedures, including four operating suites, each with laser capabilities. Adjacent r ecovery suites and private patient r ooms further pr omote the recovery of the day surgery patient. An additional ambulatory sur gery facility has eight operating r ooms, two procedure rooms, and the necessary r ecovery and holding r ooms. This facility enables the Medical Center to meet the growing needs in ambulatory surgery.

Clinical Centers

Addiction Center

Housed within the The Psychiatric Hospital at V anderbilt, the Vanderbilt Addiction Center pr ovides a compr ehensive approach to the tr eatment of alcohol/dr ug dependence and associated psychiatric pr oblems for patients 18 and older. The program consists of a complete psychiatric and medical assessment and inpatient detoxification, with follow-on treatment available as required.

Adolescent Consultation/Referral Services

Consultation and r eferral services ar e available to assist primary car e physicians and other health service pr oviders in the car e of their adolescent and young adult patients. Diagnostic and management opinions ar e offered to assist referring professionals in patient care.

Adolescent Primary Care Clinic

Physicians serve as primary care providers for adolescents from twelve to eighteen years of age. Primary car e services include acute illness and injury, annual/school physical exams, immunizations, pr e-participation exams for sports, r outine gynecological car e, evaluation of pr oblems of emotional adjustment and stress, and coordination of services for children with special needs.

AIDS Project

The Vanderbilt AIDS Project provides support in the ar eas of community service, education, training, and r esearch. The project also of fers a wide range of support services to AIDS patients including individual and family counseling, along with assistance for discharged patients.

Allergy Clinic

The Pediatric Allergy Clinic provides diagnostic services and car e for children who are suspected to have aller gy-related symptoms. Consultation services are provided for children of all ages with physician r eferral; patients who are self-referred are also welcome to contact the clinic for appointments.

Asthma/Sinus/Allergy Program (ASAP)

Opened in 1997, ASAP was the first clinic in the nation to offer comprehensive treatment of all airway diseases and disorders in a centralized location.

Behavioral Medicine Clinic

The Behavioral Medicine Clinic pr ovides outpatient behavioral health and counseling services to help patients and families cope with illness and symptoms that interfer e with their lives and helps patients who ar e dealing with recurrent abdominal pain, chronic fatigue syndrome, stressrelated symptoms, anxiety, eating disorders, and management of chronic diseases, such as diabetes. The goal is to help childr en and adolescents overcome or cope with symptoms so that they can live life to the fullest.

Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences

Balance and Hearing Center Southeast Nashville Hearing Center

The Hearing Centers offer state-of-the-art diagnostic and rehabilitative services to persons with hearing loss and vestibular disorders.

Brain Tumor Program

The acute care and chronic care of brain tumor patients ar e addressed through a multidisciplinary pr ogram that permits a compr ehensive care approach. Treatment programs and r esearch in novel appr oaches are based on collaboration within the compr ehensive multidisciplinary environment at Vanderbilt, collaboration with the Brain Tumor Program of the Vanderbilt-Ingram Cancer Center, and collaboration with other institutions regionally and nationally.

Breast Center

The Vanderbilt Breast Center is a unique clinical setting in which women can obtain comprehensive breast health care in a single location. Services include mammography, breast ultrasound, clinical breast examination, stereotactic biopsy, and surgical evaluation.

Burn Center

Vanderbilt's twenty-bed comprehensive Burn Center is staf fed by physicians, nurses, therapists, and support personnel, including psychiatrists, social workers, and a chaplain, who work as a team to pr ovide the most advanced technology and treatment methods to burned adult and pediatric patients.

Cardiac Surgery

A team of experienced pediatric cardiac surgeons care for infants, children, and young adults under going cardiac surgery. Operations range from fairly straightforward closures of atrial or ventricular septal defects (ASDs or VSDs) to very complex operations including Norwood operation, Fontan operation, and cardiac transplantation.

Center for Advanced Maternal Fetal Care

The Center for Advanced Maternal Fetal Car e is a compr ehensive fetal diagnosis and therapy center at V anderbilt. The center has incorporated a clinical program in fetal diagnosis and therapy as well as clinical and basic research programs. Consultations by appr opriate specialists ar e coor dinated at a single site with Maternal Fetal Medicine, Pediatric Surgery, Neonatology, Pediatric Neurosurgery, Pediatric Cardiology, Pediatric Urology, Genetics, and Diagnostic Imaging to decide what is best. V anderbilt is at the forefront of fetal research and surgery as one of only three sites in the country to study in-utero surgery for spina bifida. The advancement of fetal diagnosis and therapy has impr oved the plan of car e and outcome for the fetus at risk.

Center for Child Development

The Center for Child Development pr ovides interdisciplinary screening, evaluation, and intervention services for children from birth to 21 years who either have or are suspected of having developmental problems. The center has a range of specialized programs that address the needs of children, especially those under age 6, with different disabilities.

Center for Human Nutrition,

Adult Practice

The Center for Human Nutrition specializes in pr oviding evaluation and treatment for high-risk obesity patients and malnourished patients requiring nutritional support interventions

Clinical and Research Ethics

The center's objectives are to promote ethically sensitive patient car e and an informed patient population; to assist in developing an educated citizenry within the Medical Center, the University, and the surrounding community; and to encourage thoughtful deliberation concerning the moral and ethical issues pertaining to the health care system.

Clinical Improvement Center

The aim of the Center for Clinical Impr ovement is to systematically and continuously improve care based on the Institute of Medicine's (IOM) dimensions of car e (Safe, T imely, Effective, Efficient, Patient-Centered, and Equitable); to collaboratively assess and communicate measures of quality; to develop new knowledge, tools, and r esources to advance the science of improvement; and to disseminate improvement science knowledge to current and future health care professionals.

Community Mental Health Center (CMHC)

The CMHC provides a broad range of mental health car e to children, adolescents, and adults. Special emphasis is placed on serving individuals with serious and persistent mental illness.

Comprehensive Care Center

The Comprehensive Care Center, a collaborative enterprise between Vanderbilt Medical Center and a community hospital, is an outpatient medical facility that pr ovides medical car e for HIV/AIDS patients. The center also offers screening and enrollment in AIDS clinical studies.

Consultation Clinic

The Pediatric Consultation Clinic is a service pr ovided by Vanderbilt Children's Hospital to the patients and medical providers in Middle Tennessee and surrounding areas. Any physician or provider in need of assistance with diagnosis, treatment, or a second opinion may refer a patient.

Craniofacial Surgery Center

The Vanderbilt Center for Craniofacial Sur gery is a multidisciplinary group that treats both acquired and congenital deformities of the soft tissues and bone of the head and neck region. The team consists of craniofacial sur geons, neur osurgeons, otolaryngologists, orthodontists, oral surgeons, psychiatrists, dentists, ophthalmologists, pediatricians, geneti cists, speech pathologists, and social workers. The Center is *ecognized* by the American Cleft Palate/Craniofacial Surgery Association and is one of the few centers in the country that performs this type of surgery.

Cystic Fibrosis Diagnosis and Treatment Center

The Vanderbilt Cystic Fibrosis Diagnosis and Treatment Center is one of the Cystic Fibrosis Foundation's approved centers providing the expert care needed by those with cystic fibr osis. It is one of 110 centers in the network and is committed to top-notch, aggressive treatment. The center involves health care providers from many disciplines, including pulmonary medicine, nursing, psychology, social work, and physical therapy . There are also very close alliances with surgeons and gastroenterologists.

Dental and Orthodontic Center

The Vanderbilt dentistry practice provides comprehensive dental and orthodontic care for children and adults. The pr ogram also offers special expertise in orthodontic therapy to patients requiring orthognathic surgery.

Dermatology Clinic

The pediatric dermatology service at the Hospital consists of both outpatient and inpatient consultations and ongoing car e. Comprehensive evaluation and treatment of all types of skin diseases in childr en are offered, with physician referrals and self referrals accepted.

Dermatology/MOHS Practice

Dermatology/MOHS Practice specializes in the treatment of various types of dermatologic issues including dermatologic surgery, dermatopathology, photochemotherapy, atypical moles and melanoma, and cutaneous cancers, including lymphomas.

Down Syndrome Program

The Down Syndrome Clinic offers a multidisciplinary team that evaluates children (i.e., birth through 21 years of age). Referrals and recommendations are provided to families after the clinic has evaluated patients, both medically and developmentally.

Eating Disorders Program

The Eating Disor ders Program is designed specifically for childr en, adolescents, and young adults. Services include evaluation and management of patients' conditions, providing medical, psychological, and nutritional tr eatment. Health car e pr ofessionals ar e committed to a family-based, multi-disciplinary team approach, carefully orchestrated to include primary car e physicians, psychologists, psychotherapists, nutritionists, psychiatrists, and other pediatric specialists as needed.

ECMO Program

Extracorporeal Membrane Oxygenation (ECMO) is a form of long-term heart-lung bypass used to tr eat infants, childr en, and adults in car diac

and/or respiratory failure despite maximal medical therapy. The program is the fifth lar gest program of its kind in the world. Curr ently, four machines can run at one time, a fifth can run temporarily.

Emergency/Critical Care Air and Ground Patient Transport Services

LifeFlight is a comprehensive, hospital-based, air medical transport program that pr ovides advanced level critical car e during patient transport using helicopters, airplanes and ambulances. Four helicopters pr ovide overlapping coverage to all of Middle Tennessee, Southern Kentucky, and Northern Alabama. The fixed-wing component of LifeFlight is available for regional, national, and international patient transports. LifeFlight ambulance support pr ovides close-proximity patient transport, fixed-wing support, and backup to the rotor-wing fleet.

Emergency Medicine

The Vanderbilt Children's Emergency Department pr ovides 24-hour access to experts in pediatric care to more than 36,000 patients seen annually. The Pediatric Emer gency Department has 25 patient-car e areas and three triage and ten observation beds. The department is staf fed by at-tending physicians, residents, social workers, and child life specialists.

Epilepsy Program

The Vanderbilt Epilepsy Program offers advanced services for the diagnosis and treatment of epilepsy and related paroxysmal disorders.

Vanderbilt-Eskind Diabetes Clinic

The Vanderbilt Eskind Diabetes Clinic is an internationally acclaimed facility that of fers comprehensive outpatient care to both adults and chil dren with diabetes. It pr ovides numerous specialists for diabetics of all ages allowing a seamless transition from pediatric to adult care. This clinic also provides comprehensive, multi-disciplinary car e of complications of diabetes, including endocrine and pituitary issues.

Eye Centers

Vanderbilt Eye Institute

The Vanderbilt Eye Institute is a state-of-the-art facility that specializes in all aspects of eye car e, including cataracts, glaucoma, r etinal diseases, corneal transplantation, ocular plastics, and neur o-ophthalmology, as well as optical and contact lens.

Laser Sight Center

The Vanderbilt Laser Sight Center offers state-of-the-art laser vision correction procedures to treat nearsightedness, farsightedness, and astigmatism.

Contact Lens Center

The Vanderbilt Contact Lens Center is located in the V anderbilt Eye Center in Medical Center East. An optometrist is in clinic daily and available to meet contact lens needs. Payroll deduction is available for Vanderbilt employees. The center specializes in the evaluation of patients who have had previous contact lens failures.

Optical Center

The Vanderbilt Optical Center is located in the Vanderbilt Eye Center in Medical Center East. Designer frames, thin and light lenses, and safety and sport eyewear are among the many items available. Faculty staff, and students receive a 15 per cent discount. Payroll deduction is available for Vanderbilt employees.

Tennessee Lions Eye Center at Vanderbilt Children's Hospital

The Tennessee Lions Eye Center offers subspecialty eye care for children from birth through 18 years. Inpatient consults ar e done at the r equest of other pediatric specialists who attend patients in the Childr en's Hospital. Outpatient services include vision evaluation for newborns with a family history of eye disease, evaluation of sur gical and non-sur gical treatment for eye muscle disorders and double vision, orthoptic evaluation and treatment, pediatric contact lens fitting, and annual and preschool eye exams.

Gastroenterology, Hepatology, and Nutrition Clinics

The Gastroenterology, Hepatology, and Nutrition Clinics provide comprehensive care, diagnostic evaluations/ testing, management and treatment for infants, children, and young adults with a wide array of nutritional, gastrointestinal, or liver disorders.

General Surgery

Pediatric surgeons are specially trained in the surgical care of infants and children, to tr eat fetal patients, newborns, infants, toddlers, childr en, and young adults, and to perform a broad range of general surgical procedures including minor office procedures, inpatient, and outpatient procedures.

GI Clinic

The GI Clinic pr ovides adult gastr oenterology and hepatology outpatient services using a multidisciplinary health care team.

Vanderbilt Heart Institute

This 40,000-square-foot state-of-the-art facility pr ovides integrated, comprehensive consultative and diagnostic services for patients with cardiac and vascular disease.

Henry-Joyce Cancer Clinic and Clinical Research Center

The Henry-Joyce Cancer Clinic is the clinical arm of the Vanderbilt-Ingram Cancer Center. This clinic provides patients and their physicians with access to some of the nation's foremost experts in cancer care. While each patient's illness is managed in a personalized manner , the Cancer Clinic has the capacity to bring substantial human and technological resources to bear on an individual's disease. Each patient's treatment plan is developed by a team of cancer specialists and is administer ed by a dedicated staff with many years of experience in cancer therapy.

The services of fered in the first floor ar ea are medical oncology, surgical oncology, gynecologic oncology, neuro-oncology, and infusional therapy. The second floor area includes benign and malignant hematology blood and marrow stem cell transplant, and an outpatient transplant unit.

Hillsboro Medical Group

In existence for over forty years, this practice provides primary care and specialty care in the areas of endocrinology, hypertension, and pulmonary disease, serving adult and geriatric patients (ages 15 through senior years). A pulmonary function test lab, radiology services, and a laboratory ar e conveniently located in Medical Center East.

Vanderbilt Home Care Services, Inc.

Vanderbilt Home Care offers a variety of home care services catering to the individual needs of the patients. The quality and level of car e comply with standards of care ensuring safe and effective treatment with all the benefits of home. As an affiliate of Vanderbilt University Medical Center, we offer family-centered care with a team appr oach to those individuals and families who require specialized services.

Vanderbilt Home Car e Services, Inc., pr ovides home car e to patients in Davidson, Cheatham, Robertson, Rutherfor d, Sumner, Williamson, and Wilson counties. The staff comprises registered nurses, physical therapists, occupational therapists, speech pathologists, social workers, certified nurse technicians, and sitters. Intermittent and private duty services are available.

Hypertension Practice

The Hypertension Practice focuses on compr ehensive management of patients with hypertension, including lifestyle modification and pharma cologic interventions.

Imaging Centers

Cool Springs Imaging Hillsboro Imaging Vanderbilt Center for Women's Imaging

MRI, CT, CT screening*, CT cardiac scoring*, ultrasound, mammography, bone density, x-ray, and pain management services ar e provided with state-of-the-art technology.

*available at Cool Springs only

3T MRI available at Hillsbor o only. Immediate call-back to the physician on abnormal studies, with consultation to the doctor always avail able. Reports are faxed to the physician on all studies in four to six hours. As procedures are performed, referring physicians can view images over the web on all modalities except mammography. Copies of films are provided either with film or CD copies upon request, and a copy is kept permanently in digital archives.

The Vanderbilt Center for Women's Imaging is dedicated to providing women's ultrasound in a comfortable setting, of fering a wide range of non-obstetric women's ultrasounds including pelvic, r enal, abdominal, and thyroid ultrasound, as well as ultrasound of veins of the lower ex tremities. Obstetric ultrasound services include first trimester ultrasound screening, fetal well-being, fetal anatomy scr eening, amniocentesis guidance, and scr eenings for genetic abnormalities. V anderbilt Center for Women's Imaging pr ovides same day scheduling, same day r eports, 3D/4D images and patient pictures, and videotapes or CD's. A radiologist is always on site.

Immunology and Rheumatology Clinics

The Immunology Clinic provides evaluation and diagnostic testing for infants and children with suspected humoral and cellular immunodeficiency diseases and specialty care for patients with primary immunodeficiency diseases. The Rheumatology Clinic pr ovides consultation and subspecialty care for childr en and adolescents with r heumatologic and inflammatory diseases.

Vanderbilt Internal Medicine and Pediatrics Practice

This center provides comprehensive adult primary care and medicinepediatric primary care. Housed in facilities dedicated in 1996, the center's adjacent laboratories and diagnostic equipment afford prompt and convenient attention for patients.

International Adoption Clinic

The International Adoption Clinic provides consultation services for families and practitioners involved in the adoption of forign-born children. Preadoption services include counseling, r eview of medical records, videos, travel information, and vaccines. Post-adoption services include facilitating needed subspecialty consults and serving as a r esource for the practitioners providing primary care for the adoptees.

Junior League Family Resource Center

The Junior League Family Resour ce Center of fers health information and support to children, adolescents and their families. The center assists families in obtaining information about their child's condition and other concerns. The center also pr ovides information on community services and links families to local and national support and advocacy groups. The Flying Pig library within the Family Resource Center has health education books, DVDs, and videos designed especially for children and teens.

Lipid Clinic

The Vanderbilt Lipid Clinic pr ovides state-of-the-art diagnosis and treatment for patients with lipid disorders. A multi-disciplinary approach unites physicians, nurses, and dietitians to of fer preventive care to patients with high cholesterol, both those who are at risk of developing coronary heart disease (CHD) and those with pre-existing CHD.

Lung Center

The Lung Center staff are experts in the diagnosis and management of acute and chr onic lung pr oblems in infants, childr en, and adolescents. The Lung Center is also the home of the Cystic Fibr osis Diagnosis and Treatment Center, the BPD follow-up program, the Pediatric Sleep Disorders Program, the Flexible Br onchoscopy Service, and special services to technology-dependent children. The faculty and staff of the Lung Center strive to provide the highest quality and family-focused car e to the children and families in our region.

Multiple Sclerosis Clinic and Research Center

The MS Clinic and Resear ch Center, located in the V anderbilt Stallworth Rehabilitation Hospital, is a compressive program of patient care and education. Services include physical therapy, occupational therapy, neuropsychological counseling, and treatment.

Neonatal Intensive Care Unit

Almost 1,200 infants are treated in the Neonatal Intensive Car e Units at Vanderbilt each year, with the average stay being approximately seventeen days. There are two NICU's at V anderbilt—a 60-bed NICU on the fourth floor of Childr en's Hospital and the 12-bed Stahlman NICU at V anderbilt University Hospital for critically ill infants born at Vanderbilt. These infants are often premature, but many other illnesses and disorders are treated.

Nephrology Practice

The Nephrology Practice specializes in patients with kidney disease and other related conditions that cause kidney failure or need for dialysis.

Neurology Clinics

The pediatric neurology faculty offer consultation services by evaluating and working with patients and families who are dealing with illnesses, disorders, and conditions that involve the nervous system (brain, spinal cor d, nerves, and muscles).

Neuromuscular Clinic

The Neuromuscular Clinic, sponsored by the Muscular Dystrophy Association (MDA), offers an interdisciplinary team approach toward initial diagnosis and follow-up car e. Children and adults with neur omuscular disorders included in MDA 's program have access to a clinic staf fed by neuromuscular disease specialists.

Neurosurgery

The Pediatric Neur osurgical Service treats patients with the following neurosurgical conditions: brain tumors, congenital malformations of the brain and spinal cor d, epilepsy, head trauma, hydr ocephalus, myelodysplasia (spina bifida), spasticity and cer ebral palsy, and vascular malformations, including AVMs, aneurysms, Vein of Galen, cavernous malformations, and moyamoya syndrome.

George M. O'Brien Renal Center

The objective of this center is to contribute to the understanding of pathogenic mechanisms leading to pr ogressive nephron destruction in the kidney. Investigators from the Departments of Medicine, Surgery, Pediatrics, Cell and Developmental Biology, Pharmacology and Pathology employ a multidisciplinary approach in the study of kidney dysfunction.

Occupational and Environmental Medicine

The Vanderbilt Center for Occupational and Envir onmental Medicine (VCOEM) provides consultation on envir onmental and work-r elated medical issues for healthcare professionals, assessment of the medical and scientific strengths and weaknessess of injury and disease claims for case managers, insurance companies, and attorneys, and advice regarding the development and oversight of preventive programs for industry and employers. VCOEM also provides medical input and support to V anderbilt Corporate Health Services for the integration of the delivery of health ca**e** services for workers' compensation patients throughout the Medical Center.

Orthopaedics Practice, Adult Orthopaedics Practice, Pediatric

Vanderbilt Orthopaedics combines some of the region's best physicians and rehabilitation professionals. Patients benefit from a staff of fellowshiptrained physicians who offer subspecialized orthopaedic care. Specialties include hands, joint r eplacement, knees, oncology, shoulders, spine, sports medicine, and trauma.

The Pediatric Orthopaedic Service pr ovides extensive outpatient and inpatient experience in the diagnosis and treatment of all musculoskeletal diseases of childr en, including simple and complex fractur es, pediatric and adolescent sports injuries, spine deformities and the treatment of scoliosis, congenital bone deformities, hip disor ders, congenital foot disorders and osteomyelitis.

Otolaryngology

Pediatric Otolaryngology tr eats children with chr onic ear infections, tonsil and adenoid infections, asthma and aller gy/sinus problems, congenital airway problems, and other birth defects of the head and neck.

Palliative Care

The Palliative Car e Consult Service tr eats moderate to sever e pain and other symptoms such as nausea and delirium and helps with hospice r eferrals; difficult decisions, such as when to stop chemotherapy or dialysis; DNR decisions; and setting goals for families and patients with serious illnesses.

Pediatric Acute Care Clinic

The Pediatric Acute Care Clinic (PACC) is open six days a week, providing acute medical care for the residents' continuity patients and sameday consultations for the community practitioners. The clinic is staffed by attending physicians, r esidents, and nurse practitioners. In addition, PACC serves as a valuable educational envirement for the house staff and medical students.

Pediatric Critical Care Unit

The Pediatric Critical Car e Unit on the fifth floor of the Hospital currently staffs twenty-four beds. There are approximately 1,500 admissions to the PCCU each year, with the average stay being four days. Although surgical, medical, and trauma patients make up the patient base for PCCU, close to half are cardiac patients including surgical repair and preand post-op heart transplants.

Pediatric Dental Center

In addition to providing dental services for the general pediatric population, Vanderbilt's Pediatric Dentistry Pr ogram provides services for inpatients and outpatients with special needs, such as children with cancer, transplant patients, and children with craniofacial problems.

Pediatric Infectious Disease Clinic

The Pediatric Infectious Disease Clinic is devoted to helping childr en who suffer from diseases such as HIV or tuberculosis. Except in rare cases, the clinic sees patients by referral only. Urgent visits are also available by contacting the Division; it is the clinic's goal to pr ovide a prompt consultative service for urgent visits.

Pediatric Primary Care Practice

The Vanderbilt Pediatric Primary Care Practice provides comprehensive well-child care to the infants and children of Middle Tennessee. The clinic offers physical examinations, immunizations, vision/hearing scr eening, and counseling/guidance for par ents and children, and also pr ovides EPSDT (Early Periodic Screening, Diagnosis, and Treatment) services.

Pediatric Sleep Disorders Program

The Division of Pediatric Pulmonary Medicine has developed a Pediatric Sleep Disor ders Program in partnership with the Department of Neurology and the Department of Internal Medicine. The Pediatric Sleep Clinic evaluates pediatric patients with possible obstr uctive sleep apnea, altered sleep patterns, and difficulty falling asleep and staying asleep.

Pediatric Weight Management Clinic

The Pediatric W eight Management Clinic provides evaluation and treatment of childhood obesity. The vast majority of children become obese from unhealthy lifestyle and behavioral choices. The treatment approach includes lifestyle changes, since there is no approved medical therapy for treating obesity in children. The Weight Management clinic provides a multidisciplinary team approach to treatment.

Phototherapy and Skin Treatment Center

The Vanderbilt Phototherapy and Skin T reatment Center is an outpatient facility fully equipped and staf fed for treatment of skin conditions responsive to ultraviolet light therapy.

Pituitary Center

This center provides comprehensive, multi-disciplinary care to patients with all types of hypothalamic and pituitary diseases. It of fers the services of specialists in neuro-ophthalmology, radiation oncology, neuroradiology, otolaryngology, reproductive endocrinology, urology, neurology, psychiatry, and physical therapy.

Plastic Surgery

The Plastic and Reconstructive Center at Vanderbilt Children's Hospital offers diagnosis and treatment for cosmetic and reconstructive problems in children and adolescents who require major and minor alterations of their physical appearance.

Pulmonary Medicine Practice

The Pulmonary Practice is a multidisciplinary practice which provides diagnosis and tr eatment of lung-r elated disor ders, including COPD, asthma, interstitial lung disease, primary pulmonary hypertension, and lung cancer.

Radiation Oncology Clinic

Satellite Locations:

Gateway-Vanderbilt Cancer Treatment Center, Clarksville Vanderbilt-Ingram Cancer Center, Franklin

The radiation oncology center pr ovides radiation therapy tr eatment to both adult and pediatric patients. The specialty services include ster eotactic photon knife for treatment of brain tumors; brachytherapy; prostate seed implants; three-dimensional treatment planning for certain types of cancers; and total body irradiation for bone marr ow transplant patients. Patients have access to research studies through many cooperative groups including Radiation Therapy Oncology Gr oup, the Eastern Cooperative Oncology Group, the Gynecology Oncology Group, and the Children's Cancer Group.

Reproductive Medicine Center

Established in 1980, the V anderbilt Center for Repr oductive Medicine has as its objective the development and application of new information and techniques for the prevention and treatment of human infertility. The

center also provides care for women with hormonal disor ders, including menopause, premenstrual syndromes, and recurrent miscarriages.

Renal Transplant Practice

The Renal Transplant Practice specializes in the evaluation of patients with renal disease that have been referred for possible kidney transplant. These patients are followed pre- and post-transplant.

Rheumatology Practice

This center delivers comprehensive care for those experiencing the special problems of arthritis and other r heumatic diseases. Services include patient education, occupational and physical therapy, radiology, new dr ug therapies, and joint prosthesis designs.

Senior Care Program

The Senior Car e Program evaluates frail elderly patients, age 65 and older, focusing on their level of medical, cognitive, and psychological function. Caregiver support and community health pr omotion care are emphasized.

Vanderbilt Sleep Disorders Center

The Vanderbilt Sleep Disor ders Center, accreditated by the American Academy of Sleep Medicine, provides diagnosis and treatment of a comprehensive range of sleep disor ders, including obstructive sleep apnea, narcolepsy, insomnia, restless leg syndrome, and parasomnias.

Spina Bifida Program

Spina bifida is one of the most complicated and prevalent of congenital conditions. This clinic is or ganized to respond to the many diverse med - ical needs of people with spina bifida in one convenient setting.

Sports Medicine Center

Vanderbilt Sports Medicine Center is the most compr ehensive sports medicine service in the r egion. This state-of-the-art facility car es for all athletic injuries and specializes in knee and shoulder injuries to all r ecreational and competitive athletes. Sports Medicine specializes in the close integration of physician care and therapy.

Vanderbilt Stallworth Rehabilitation Hospital

VSRH provides complete inpatient and outpatient services for pediatric and adult patients with neur ological and orthopaedic injuries or disabilities, degenerative conditions, and certain chronic ailments. It also hosts the Vanderbilt Center for Multiple Scler osis, the Nashville Area Junior Chamber of Commerce gymnasium, and elements of the Junior League Center for Chronic Illnesses and Disabilities of Children. The Stallworth Rehabilitation Hospital is a joint venture with HealthSouth.

Stroke Center

The Vanderbilt Stroke Center is designed to ensure optimal and uniform care of patients with str oke and r elated cerebrovascular disorders, and to provide leadership in research to improve treatments for stroke.

Subacute Unit

The Vanderbilt Subacute Unit is a 27-bed Medicar e-certified skilled nursing facility. The unit provides care to patients who are in need of transitional care (usually for two to three weeks) after discharge from the hospital.

Tennessee Poison Center

Poison information specialists and clinical toxicologists pr ovide an information and advisory service for all r esidents and for health car e professionals in Tennessee on a 24-hour, 7-day-a-week basis.

Transplant Center

The Vanderbilt Transplant Center is a multidisciplinary alliance of transplant specialists. Each transplant pr ogram within the center r epresents a collaboration of medical and sur gical professionals working together in the best interests of the transplant patient. Clinical transplant services offered include kidney, pancreas, combined kidney/pancr eas, heart, lung, combined heart/lung, liver, bone marrow, and stem cell transplantation.

Travel Clinic

A complete source for health-related pre-travel and post-travel assistance, the Travel Clinic pr ovides immunizations and certificates, pr escriptions, recommended lists of first aid supplies, advice on pr eventive health habits, and instructions on r ecognizing symptoms of common travel-r elated illnesses. Appointments are available for individuals, tour gr oups, corporations, and institutions.

Trauma Patient Care Center

The Vanderbilt Trauma Center provides comprehensive care to trauma victims from pre-hospital care through hospitalization and rehabilitation. Patients may be referred through the Vanderbilt Trauma Line, which provides 24-hour access to a Vanderbilt physician. Rapid transport from a referring hospital can be arranged thr ough the V anderbilt LifeFlight Program. The Trauma Care Center consists of thirty-one beds on the tenth floor of Vanderbilt University Hospital.

Treatment and Research Institute for Autism Spectrum Disorders

The Treatment and Research Institute for Autism Spectrum Disorders is dedicated to impr oving assessment and tr eatment services for childr en with autism spectr um disor ders and their families while advancing knowledge and training.

University Pediatrics:

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General Pediatrics
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Attending physicians: Rachel Mace, M.D., Nicki Gr eeley, M.D., and Alice Rothman, M.D.

Urology

Pediatric urologists care for children with any problems associated with the urinary tract and/or genitalia. Managing a diversity of pr oblems ranging from complex genital and urinary tract disorders to socially debilitating voiding abnormalities r equires the technical skill of a micr o-surgeon with the reassuring touch of a friend and confidant.

Vanderbilt Childhood Cancer Program

The Vanderbilt Childhood Cancer Pr ogram sees patients at the Monr oe Carell Jr. Children's Hospital at Vanderbilt; the program is ranked in the top ten for pediatric cancer care. It is part of the Vanderbilt-Ingram Cancer Center, the only National Cancer Institute-designated Compr ehensive Cancer Center in Tennessee and one of only thirty-nine centers in the nation to hold this distinction.

Vanderbilt Children's Health Improvement and Prevention (VCHIP)

The VCHIP program is designed to focus on childr en's health through community partnerships with a multi-disciplinary approach. Its goal is to give all children the very best chance at developing into healthy and pr oductive adults and develop meaningful programs with measurable results showing that behaviors can be changed for the better . Teams of physicians, nurses, epidemiologists, nonpr ofits, business leaders, statisticians, and community volunteers meet r egularly to help identify those needs that can be addressed most effectively within the three primary advocacy and outreach areas: Healthy Children, Safe Children, and Strong Families.

Vanderbilt Eskind Pediatric Diabetes Clinic

The program provides comprehensive diabetes management, diabetes education, and self-management training for children and teens with diabetes and their families. On-going care and education is available for families new to the area or new to this program. The staff works closely with the family's primary car e physician to pr ovide expert guidance in diabetes treatment through adolescence.

Voice Center

The Vanderbilt Voice Center treats the entire medical and surgical spectrum of problems associated with the upper aer odigestive tract, including spastic dysphonia. Services include laryngology , broncho-esophagology, endoscopic laser surgery, laryngeal and tracheal reconstructive surgery, and phonosurgery. The staff is composed of otolaryngologists, speech pathologists, voice scientists, and singing specialists.

Special Programs

In addition to the special services listed thr oughout this catalog, V anderbilt University Medical Center supports many pr ograms in which medical students can receive invaluable experience, including:

- Airway Stenosis Service
- Biliary Disease Consultation and Treatment Center
- Center for Facial Nerve Disorders
- Photon Stereotactic Radiosurgery

Programs in Allied Health

Vanderbilt University Hospital conducts training pr ograms in five technical areas of allied health professions.

Program in Cardiovascular Perfusion Technology

Vanderbilt University Medical Center 's Programs in Allied Health, Program in Car diovascular Perfusion T echnology (VUMC-CVPT) r equires that, prior to application, the pr ospective student shall have acquired a Bachelor of Science or a Bachelor of Arts diploma. As required by the AC-PE standards, the prospective student shall also have completed college-level course work in the fields of mathematics, physics, and chemistry prior to the time of admission (not application), or shall present to the Admission Committee a reasonable plan for successful completion of such course work prior to the end of their first year of matriculation in the program (i.e., without conflict with the required first-year course work at VUMC-CVPT).

Courses in the fields of anatomy and physiology, pathology, pharmacology, and other pertinent ar eas of study r elated to perfusion car e are provided in the VUMC-CVPT course syllabus.

The general academic r equirements for all perfusion education pr ograms are established by the Accreditation Committee for Perfusion Accreditation (AC-PE). Students at VUMC-CVPT experience twenty-four (24) consecutive months of clinical and didactic training. Course descriptions can be found on the Car diovascular Perfusion Technology Web site at *www.mc.vanderbilt.edu/cvpt/courses.htm*

Dietetic Internship Program

The Dietetic Internship at V anderbilt University Medical Center (VUMC) has been an educational pr ogram since 1929. It is designed for the generalist practitioner, providing experience in clinical dietetics, food-service systems management, and community nutrition with emphasis areas in nutrition therapy and foodservice systems management.

The internship is sponsored by the Department of Nutrition Services of VUMC. The pr ogram is curr ently granted accr editation status by the Commission on Accreditation for Dietetics Education of the American Dietetic Association (120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, (312) 899-4876), a specialized accrediting body recognized by the Council on Post-Secondary Accreditation and the United States Department of Education.

The Nutrition Services Department serves approximately 1,500 patient meals per day, and more than 4,000 customers (employees and guests) are served daily in the cafeterias. The department employs about 250 persons, including thirty registered dietitians

Program in Medical Technology

The Program in Medical T echnology is an NAACLS-accr edited program designed to provide extensive didactic and practical training in laboratory medicine. The pr ogram runs from June to June each year and is composed of a six-month "student laboratory" in a classr oom setting and a six-month clinical practicum in the Vanderbilt clinical laboratories. Students receive theoretical and technical training in immunohematology (blood banking), hematology, clinical chemistry, immunology, microbiology, and laboratory supervisory and management skills. Emphasis is on a thor ough understanding of theoretical concepts and problem solving. Upon completion of the program, students receive a certificate of training and are eligible for all state and national licensure or certification examinations.

Students from affiliated colleges and universities may enter the program after completion of the junior year and the pr erequisite courses. These students will receive the baccalaureate degree from their college or university upon successful completion of the pr ogram. Students fr om non-affiliated institutions may apply, with affiliation agreements completed upon acceptance. Students who have baccalaureate degrees and have met the prerequisite requirements may also apply. Applicants holding for eign degrees are required to have transcript evaluations and to pass the TOEFL exam.

Applications should be submitted several months in advance of the application deadline, 1 January, to assure sufficient time for processing information and scheduling interviews.

Program in Nuclear Medicine Technology

The twelve-month training pr ogram in clinical nuclear medicine methodology is designed primarily for students who have completed a minimum of three years of pre–radiologic technology work in an accr edited college or university. The pr ogram prepares graduates for certifica tion as nuclear medicine technologists. Students receive training in atomic and nuclear physics, radiochemistry, patient car e and nursing, radiation safety, radiobiology, instrumentation, and computer applications, as well as clinical nuclear medicine (both imaging and in vitr o). Students must successfully complete the lectur e series and clinical laboratory r otations that are integral parts of the pr ogram. Students ar e also expected to develop certain educational and administrative skills to prepare them for future supervisory positions.

The program is approved as the fourth year externship in a baccalaureate degree program at Austin Peay State University in Clarksville, T ennessee, and Belmont University in Nashville. In addition, on completion of the program, a certificate will be awar ded from the Division of Allied Health at Vanderbilt.

The nuclear medicine program is accredited by the Joint Review Committee for Nuclear Medicine Technologists (JRCNMT), and graduates are eligible for national certification examination.

Admission requirements:

 Satisfactory completion of three years of college credit at an accredited college or university, including the following:

Chemistry. A minimum of 8 semester hours or equivalent of general chemistry

Physics. A minimum of 12 semester hours or equivalent of general physics

Mathematics. A minimum of 6 semester hours or equivalent of college algebra and statistics. Calculus and analytic geometry are also recommended

Biology. Approximately 24 semester hours or equivalent, including human anatomy and physiology, hematology, medical microbiology, immunology and serology, and bacteriology *Computer Science.* A minimum of 6 semester hours or equivalent of introduction to computer science and FORTRAN IV programming

- A minimum overall grade point average of 3.0 (4.0 scale) is recommended. Averages above 2.5 will be considered
- A baccalaureate degree or eligibility for that degree at the completion of clinical training
- Good moral character, pleasant personality, ability to relate to patients

Qualified applicants from any accredited college or university are eligible for admission. Complete applications must be r eceived by 15 Mar ch preceding the expected date of admission. Student selections will be completed by 15 April. Selection is based on scholastic backgr ound, references, personal interview, and motivation.

Radiation Therapy Training Program

The mission of the Radiation Therapy Pr ogram is to pr ovide a highquality, competency-based pr of essional education thr ough a hospitalbased certificate-granting pr ogram, thereby enriching the pr of ession of radiation therapy.

Students will be selected based on objective criteria and educated using lectures by program faculty and guest lecturers and related workshops in the Medical Center that will allow students to complete the r equired coursework and graduate within the scheduled time, pass the ARRT exam in radiation therapy , and begin car eers as radiation therapists or continue with further education within six months.

Other Health Profession Programs

Internships in Nursing

These six-month training pr ograms are designed to train r egistered nurses in specialty areas such as operating room nursing, oncology nursing, pediatric intensive car e nursing, general medical-sur gical nursing, obstetrical nursing, and emer gency nursing. Interns ar e linked with pr eceptors for clinical training and do guided independent study in their spe cialty. Upon completion of the internship, r egistered nurses will have the in-depth knowledge and the well-developed skills required to care for the patient population served by the specialty.

Program in Hearing and Speech Sciences

The Au.D. (Doctor of Audiology) degree is given by the School of Medicine. The M.A., M.S., and Ph.D. degr ees in Hearing and Speech Sciences are offered by the Vanderbilt University Graduate School. See the *Graduate School Catalog* for current program information and course listings.

The program of studies leading to the master's degree requires five semesters of academic and clinical preparation, including a ten-week clinical or research externship. The program is both ESB and PSB certified by the American Speech-Language-Hearing Association, with degree requirements meeting or exceeding those r equired for ASHA certification. Practicum sites include the Bill W ilkerson Center, Vanderbilt University Medical Center, Vanderbilt-Kennedy Center, VA Medical Center, and several other hospitals in the Nashville metropolitan area.

Preparation for the doctoral degree includes a minimum of two years of academic course work, r esearch competency demonstrated thr ough two projects, and the dissertation. Resear ch interests of the faculty include basic and applied psychoacoustics, speech per ception and pr oduction, child language acquisition and disability, and audiological management. The division supports a number of r esearch laboratories, including an anechoic chamber, and maintains a Micr oVAX II computer and thr ee PDP-11 computers.



Hospital Staff

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Anesthesiology

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Family Medicine

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Rashida A. Abbas, M.D Robert Lucien Abraham, M.D. Corazon Gladys Ajero, M.D. John Brannon Alberty, M.D. Yasmine Subhi Ali, M.D. Susan Beth Alisanski, M.D. Rosa Viviana Alvarado Lavin, M.D. Saeedah Asaf, M.B., B.S. Ingrid Beatriz Avalos, M.D. Elizabeth Ann Balhoff, M.D. Shichun Bao, M.D., Ph.D. Seema Basi, M.D. Tyler William Berutti, M.D. Ana Maria Bircher, M.D. Brian John Blair, M.D. Chad Stephen Boomershine, M.D., Ph.D. Christopher Malcolm Branner, M.D. Catherine Aileen Brown, M.D. Kimberly Mae Bungcayao, M.D Earle Frederick Burgess, M.D. Luz Minerva Burgos Fuster, M.D. Michael Jay Campbell, M.D. Kecia Nicole Carroll, M.D. Farah L. Cassis, M.D. Chad Michael Charapata, M.D. Sabrina Mun-Yee Chen, M.D. Annette Marie Chihorek, M.D. Peale Chuang, M.D. John Henry Cleator, M.D., Ph.D. Concepcion Gabriele Clifford, M.D. Joel Martin Clingenpeel, M.D. Benton Edwards Cofer, M.D. Christopher David Connolley, M.D. Lala Arnoldovna Cornelius, M.D. Matthew Cortez, M.D. Minerva Belen Covarrubias, M.D. Clarence Buddy Creech II, M.D. Ian Crozier, M.D. Kathryn McCrystal Dahir, M.D. Julie Boyd Damp, M.D. Titus Luther Daniels, M.D. Jessica Koch Devin, M.D. Kathryn Witcher Dixon, M.D. Jennifer Ann Domm, M.D. Jeffrey M. Donohoe, M.D. Coley Bryant Duncan, M.D. Ryszard Tadeusz Dworski, M.D. Jamie Phillip Dwyer, M.D. Matthew Varnell Dzurik, M.D.

Cardiology Cardiology Child Development Center Pediatric Gastroenterology Cardiology Pediatric Hematology/Oncology Pediatric Hematology/Oncology Pediatric Anesthesiology Rheumatology Neonatology Endocrinology and Diabetes Nephrology Pediatric Critical Care Medical Genetics Pediatric Cardiology Rheumatology Pediatric Gastroenterology Hematology/Oncology Nephrology Hematology/Oncology Hematology/Oncology Pediatric Cardiology **General Pediatrics** Pediatric Infectious Diseases Gastroenterology Pulmonary Disease & Critical Care Clinical Neurophysiology Nephrology Cardiology Anesthesiology Pediatric Emergency Medicine Neonatology Gastroenterology Hematology/Oncology Neonatology Pulmonary Disease & Critical Care Pediatric Infectious Diseases Infectious Diseases Endocrinology and Diabetes Cardiology Infectious Diseases Endocrinology and Diabetes Pediatric Endocrinology Pediatric Hematology/Oncology Pediatric Urology Infectious Diseases Pulmonary Disease & Critical Care Nephrology Pediatric Cardiology

Susan S. Eagle, M.D. Michael Ladd Edgeworth, M.D. Michael Eugene Engel, M.D., Ph.D. Brian George Engelhardt, M.D. Cristina Maria Estrada, M.D. Andrea Christina Feilner, M.D. Kevin Richard Finnegan, M.D. Pete Pitaya Fong, M.D. Ilana Sharon Fortgang, M.D. Pinky Dalal Gaba, M.D. Michael Samir George, M.D. Lynn Ge-Zerbe, M.D. Timothy Daniel Girard, M.D. Emily Denise Graham, M.D. Garland Gary Green, M.D. Abdelmadjid Guerrah, M.D. Scott Osborn Guthrie, M.D. Melinda Shaw Henderson, M.D. William Beckett Henghold, M.D. Jennifer Rachel Herrell, M.D. Derek Weldon Holland, M.D. Igen Hongo, M.D. Stephanie Michelle Horn, M.D. Kimberly Nixon Hutchison, M.D. Mei-Tsuey Hwang, M.D. Roger Frank Johnson, M.D. David Scott Jones, M.D Mercedes Villanueva Judkins, M.D. Osama Kattih, M.D. Jennifer Ann Keates-Baleeiro, M.D. Christopher Jay Keefer, M.D. Asma Khalid, M.D. Michelle Siew Ching Khoo, M.B., Ch.B., BAO John Thomas Kimbrough III, M.D., Ph.D. Michael Charles Koester, M.D. Laurie MacPherson Lawrence, M.D. George Rozier Lee III, M.D. Victor York Levy, M.D. Elizabeth Hearon Lindsev, M.D. James Matthew Luther, M.D. David Russell Malin, M.D. Danko Martincic, M.D. Jose Andres Martinez, M.D. Stephanie Ann McAbee, M.D. Allison Shivers McBride, M.D. Danny Boyd McCaughan, M.D. Steven James McElroy, M.D. Sheila Patricia McMorrow, M.D. Ryan Ray Meyer, M.D. Alison Nemeth Miller, M.D. Russell Raymond Miller III, M.D. Heather Lynn Misra, M.D. Berthrone LaCalvin Mock-Muhammad, M.D. James Anthony Sheerin Muldowney III, M.D. Reza Nazemzadeh, M.D. Annette Nicole Nielsen, M.D. Robin Lynn Obenchain, M.D.

Cardiovascular and Thoracic Anesthesia Neuro-Oncology Pediatric Hematology/Oncology Hematology/Oncology Pediatric Emergency Medicine Critical Care Anesthesia Gastroenterology Interventional Cardiology Pediatric Gastroenterology Infectious Diseases Sports Medicine Endocrinology and Diabetes Pulmonary Disease & Critical Care Cardiology Cardiology Pediatric Clinical Research Neonatology Geriatric Medicine Dermatology Cardiology Hematology/Oncology Infectious Diseases Pediatric Emergency Medicine Clinical Neurophysiology Nephrology Pulmonary Disease & Critical Care Pediatric Gastroenterology Pediatric Critical Care Pediatric Critical Care Pediatric Hematology/Oncology Pediatric Infectious Diseases Geriatric Medicine Cardiology Cardiology Sports Medicine Pediatric Emergency Medicine Clinical Neurophysiology Neonatology Gastroenterology Clinical Pharmacology Neuroradiology Hematology/Oncology Pediatric Gastroenterology Gastroenterology Pediatric Emergency Medicine Neonatology Neonatology Pediatric Emergency Medicine Pediatric Critical Care Pulmonary Disease & Critical Care Pulmonary Disease & Critical Care Pulmonary Disease & Critical Care Cardiology Cardiology Hematology/Oncology Pediatric Hematology/Oncology Hematology/Oncology

Carmine Vincent Oddis, M.D., Ph.D. David Picman Ohmstede, M.D. Henry Ewelike Okafor, M.B., B.S. Martina Ifeoma Okwueze, M.D. Patrick Wright O'Mara, M.D. Dean Kim Park, M.D. Joseph Patrick Parker, M.D Amy Elizabeth Potter, M.D. Julie Bastarache Prudhomme, M.D. Igor Puzanov, M.D Luis Felipe Ramos, Jr., M.D. Maria Victoria Recio, M.D. Mark Francis Reese, M.D. Rickey J. Reynolds, M.D., Ph.D. Christian James Rhea, D.O. Melissa M. Rhodes, M.D. Robert Lamar Rice, M.D., Ph.D. Todd William Rice, M.D. Dorinda Hall Rouch, M.D. Pablo Jose Saavedra, M.D. Anup Kumar Sabharwal, M.D. John Stuart Salmon, M.D. David Lawrence Sanders, M.D. Mohan Sathyamoorthy, M.D. Jennifer Lange Schuberth, M.D. Robert Myles Scoggins, M.D., Ph.D. Wesley Ray Shealey, M.D. Andrea Marcogliese Sheehan, M.D Kimberly Suzanne Shimer, M.D. Edward D. Siew, M.D. Saba I. Sile, M.D. Andrew Harold Smith, M.D. Heidi Ann Beverley Smith, M.D. James Peter Smith, M.D. Charles Andrew Smith, M.D. Savyed Abdolvahhab Sohrab, M.D. Michele Donna Spring, M.D. Manakan Betsy Srichai, M.D. Matthew Blake Stahlman, M.D. Shannon Elizabeth Stinnett, M.D. Helen Keipp Bredenberg Talbot, M.D. Tania Francois Tayah, M.D. Carter Edwin Tharpe, M.D. John C. Thomas, M.D. Lora Denise Thomas, M.D. Jason William White Thomason, M.D. Annemarie Thompson, M.D. Mary Olivia Titus, M.D Sharon Marie Tobias, M.D. Maria Luisa Trirogoff, M.D. Steven Maurice VanHook, M.D. Lina Wang, M.D. Yihan Wang, M.D. Noel Rabb Wardwell, Jr., M.D. Jorn-Hendrik Karl-Wilhelm Weitkamp, M.D. Edward Allan White, M.D. Elisabeth Donlevy Willers, M.D.

Cardiology Pediatric Cardiology Cardiology Plastic Surgery Neonatology Hematology/Oncology Gastroenterology Pediatric Endocrinology Pulmonary Disease & Critical Care Hematology/Oncology Nephrology Clinical Neurophysiology Neuroradiology Clinical Neurophysiology Rheumatology Pediatric Hematology/ Hematology/Oncology Pulmonary Disease & Critical Care Hematology/Oncology **Clinical Cardiac** Endocrinology and Diabetes Hematology/Oncology **Biomedical Informatics** Cardiology General Internal Medicine Pulmonary Disease & Critical Care Infectious Diseases Hematopathology Neonatology Nephrology Nephrology Pediatric Cardiology Pediatric Critical Care Nephrology Clinical Cardiac Clinical Neurophysiology Pediatric Infectious Diseases Nephrology Cardiology Hematology/Oncology Infectious Diseases Clinical Neurophysiology in Epilepsy Cardiology Pediatric Urology Infectious Diseases Pulmonary Disease & Critical Care Cardiovascular and Thoracic Anesthesia Pediatric Emergency Medicine Hematopathology Nephrology Infectious Diseases Clinical Neurophysiology Pathology Pulmonary Disease & Critical Care Neonatology Gastroenterology Pulmonary Disease & Critical Care

Laura Ann Williams, M.D. Robert Earl Williams, Jr., M.D. Christopher Shawn Williams, M.D., Ph.D. Matthew Hunter Wilson, M.D., Ph.D. Frank Wong, M.D. Yingbo Yang, M.D., Ph.D. Bryan Eugene Youree, M.D. Wenwu Zhang, M.D. Hui Zhao, M.D. Hematology/Oncology Pediatric Gastroenterology Gastroenterology Nephrology Pediatric Cardiology Cardiology Infectious Diseases Cardiology Nephrology

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Robert Lucien Abraham, M.D.6Cl. FellowCardiologyDavid Lewis Abramson, M.D.3ResidentPsychiatryTarek Sami Absi, M.D.8Cl. FellowThoracic Surgery
David Lewis Abramson, M.D.3ResidentPsychiatryTarek Sami Absi, M.D.8Cl. FellowThoracic Surgery
Tarek Sami Absi, M.D.8Cl. FellowThoracic Surgery
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David Henry Adler, M.D. 3 Res./Research Medicine/Pediatrics
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Meliody Hobin File Adier, M.D. 4 Resident Obstetrics and Gynecology Melissa Dawn Agan, M.D. 1 Resident Pediatrics
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Rene Valiente Aguirre, M.D., 2 Resident Internal Medicine
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Madhumita Ananthakrishnan, M.D. 4 Cl. Fellow Pediatric Critical Care
Kristin Kathleen Ancell, M.D. 1 Resident Internal Medicine
Jeremiah John Andersen, M.D. 4 Resident Pathology
Ivy Marie Andersen, M.D. 4 Resident Neurology
Julia Lindyberg Anderson, M.D. 4 Cl. Fellow Pediatric Gastroenterology
Christopher Daniel Anderson, M.D. 5 Chief Resident General Surgery
Brent Carroll Anderson, M.D. 4 Cl. Fellow Cardiology
Frederick Vedder Arndt, M.D. 3 Resident Internal Medicine
Ryan Wesley Arnold, D.D.S. 3 Resident Orthodontics
Nathan Edward Ashby, M.D. 3 Resident Anesthesiology
Douglas Burton Atkinson, M.D. 3 Resident Pediatrics
Jennifer Patricia Aunspaugh, M.D. 5 Cl. Fellow Pediatric Anesthesiology
Eric Douglas Austin, M.D. 4 Cl. Fellow Pediatric Pulmonary
Mary Thomas Austin, M.D. 4 Res./Research General Surgery
Ingrid Beatriz Avalos, M.D. 6 Cl. Fellow Rheumatology Trainee
Nabil John Azar, M.D.5Cl. FellowClinical Neurophysiology

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Ahmad Azari, M.D. Tarek Mahmoud Aziz, M.B., Ch.B. Thomas Irving Babcock, IV, M.D. Dana Catherine Backlund, M.D. Philip Quy-Trung Bao, M.D. Jason Warren Barnes, M.D. Amanda Daviette Barrett, M.D. Heather May Bassett, M.D. Julie Bastarache, M.D. McKay Harold Bateman, M.D. Rebecca Marie Bauer, M.D. Todd Michael Bauer, M.D. Daniel Becker, M.D. Nancy V. Behrens, M.D. Tiffany Tarrant Behrmann, M.D. John Conard Belitz, IV, M.D. Marc Logan Bennett, M.D. Barry Robert Berch, M.D. Laura Christine Berg, M.D. Craig Lee Berger, M.D. Trina Dianne Bergermann, D.M.D. Nathan Ralph Berkley, M.D. Michael LaBranche Bernard, M.D. Tyler William Berutti, M.D. Liva Beyderman, M.D. Priya Narayana Bhat, M.D. Frederic Tremaine Billings, IV, M.D. Matthew Lee Bilodeau, M.D., Ph.D. Ana Maria Bircher, M.D. Kelly Ann Birdwell, M.D. Lola Youmans Blackwell, M.D. Katherine Mary Blossfield, M.D. Jaime Lynne Bohl, M.D. Syed Asad Hassan Bokhari, M.B., B.S. Sara Louise Bomar, M.D. Chad S. Boomershine, M.D., Ph.D. Matthew Jacob Borkon, M.D. Konstantinos Dean Boudoulas, M.D. Allyson Hingle Boudreaux, M.D. Kelly James Boudreaux, Jr., M.D. Found Ismat Boulos, M.D. Michael Edward Bowen, M.D. Catherine Ann Paulsen Bowles, M.D. Thomas Lane Bradbury, Jr., M.D. Porcia Therese Bradford, M.D. William S. Bradham, Jr., M.D., Ph.D. Margues Levar Bradshaw, M.D. Christopher Malcolm Branner, M.D. Michelle Elise Brooks, M.D. James Thomas Broome, M.D. Kyle Bertram Brothers, M.D. Catherine Aileen Brown, M.D. Alyssa Dawn Brown, M.D. Whitney Lee Browning, M.D. Alyssa Camille Browning, M.D. Alexander Jeffrey Brunner, M.D. Laura Ann Brunner, M.D.

Resident Obstetrics and Gynecology Chief Resident Psychiatry Emergency Medicine Resident Internal Medicine Resident Res./Research General Surgery Resident Pathology Resident Obstetrics and Gynecology Resident Internal Medicine CI. Fellow Pulm. Dis. & Crit. Care Trainee Resident Anesthesiology Resident Orthopaedics Internal Medicine Resident Resident Neurology CI. Fellow Clinical Neurophysiology Resident Obstetrics and Gynecology Resident Medicine/Pediatrics Resident Otology-Neurotology Res./Research General Surgery Resident Internal Medicine Resident **Emergency Medicine** Resident Oral and Maxillofacial Surgery Resident Radiology Internal Medicine Resident CI. Fellow Pediatric Critical Care Resident Internal Medicine Resident Pediatrics Resident Anesthesiology CI. Fellow Cardiology Trainee Resident Medical Genetics CI. Fellow Nephrology Resident General Surgery Resident General Surgery Resident General Surgery Resident Child Psychiatry Resident Radiology Cl. Fellow Rheumatology Resident General Surgery Cl. Fellow Cardiology Obstetrics and Gynecology Resident Resident General Surgery Resident Pathology Resident Medicine/Pediatrics Cl. Fellow Pathology Chief Resident Orthopaedics Resident General Surgery Cl. Fellow Trainee Cardiology Resident Nuclear Medicine CI. Fellow Pediatric Gastroenterology Resident Psychiatry Resident General Surgery Resident Pediatrics CI. Fellow Hematology/Oncology Resident General Surgery Resident Pediatrics Resident Internal Medicine Chief Resident Internal Medicine Resident Pediatrics

TaTanisha Patrice Bryant, M.D. Kristina Michelle Bryant, M.D. Jeremy Joseph Brywczynski, M.D. Tamara Lynn Buckles, M.D. Bui, M.D. Carol Ann Bujak-Aaron, M.D. Earle Frederick Burgess, M.D. Luz Minerva Burgos Fuster, M.D. Matthew Lee Busam, M.D. Daniel Eduardo Bustos, M.D. Jonathan Edward Buzzell, M.D. Thomas Frederick Byars, M.D. William Bellew Byrd, III, M.D. Cory Layne Calendine, M.D. Jennifer Lynn Calvert, M.D. Michael Jay Campbell, M.D. Donald Joe Campbell, M.D. Corey Dean Campbell, D.O. Kimberly Ann Candido, M.D. Christopher Loredo Canlas, M.D. Christopher Don Carey, M.D. Stephen Michael Carlson, M.D. Robert Owens Carpenter, M.D. Cody Garrett Carpenter, M.D. Kecia Nicole Carroll, M.D. Robert Paul Carson, M.D. Kimberly Nichole Carter, M.D. Sean Patrick Casey, M.D. Michael Paul Cash, M.D. Farah L. Cassis, M.D. TraineeEric Thomas Castaldo, M.D. Peter Laurence Castro, M.D. Stephanie Marie Cauble, M.D. Michael Francis Caucci, M.D. Michael Joseph Cestone, D.M.D. Arijit Chakravarty, M.D. Bill Keng-Wei Chang, M.D. Clay Hollis Chappell, M.D. Chad Michael Charapata, M.D. Sabrina Mun-Yee Chen, M.D. Elliott Ho Chen, M.D. Anton Chen, M.D. Valerie Sue Chen, M.D. Michael W. Chester, M.D. Hank S. Chien, M.D. Annette Marie Chihorek, M.D. Myoung-Soo Choi, D.D.S. Paul Chong, M.D. William Vincent Chopp, M.D. Peale Chuang, M.D. Philip John Ciampa, Jr., M.D. John A.H. Clark, M.D. Shanelle Clarke, M.D. John Henry Cleator, M.D., Ph.D. Lisa Michele Clewner, M.D. Jennifer Katherine Clune, M.D. Cheryl McGary Cobb, M.D.

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Resident Pediatrics Resident Psychiatry Resident Emergency Medicine PediatricsChristina My-Phuong Resident Ophth. and Visual Sciences Resident Resident Anesthesiology CI. Fellow Hematology/Oncology CI. Fellow Hematology/Oncology Chief Resident Orthopaedics Ophth. and Visual Sciences Resident Resident Orthopaedics Pediatric Sports Medicine Resident Resident Anesthesiology Chief Resident Orthopaedics Resident Pediatrics Cl. Fellow Pediatric Cardiology Resident Plastic Surgery Resident Psychiatry Resident Internal Medicine Resident Anesthesiology Resident General Surgery Resident Psychiatry General Surgery Res./Research Resident Pediatrics Cl. Fellow **General Pediatrics Trainee** Resident Pediatrics Resident Internal Medicine Resident Internal Medicine Resident General Surgery CI. Fellow Pediatric Infectious Diseases Resident General Surgery Chief Resident Anesthesiology Resident Internal Medicine Resident Psychiatry Resident Orthodontics CI. Fellow Nephrology Trainee Vascular Surgery Resident Resident Internal Medicine Gastroenterology CI. Fellow CI. Fellow Pulm. Dis. & Crit. Care Trainee Plastic Surgery Chief Resident Otolaryngology Resident Resident Allergy and Immunology Resident Anesthesiology Resident Plastic Surgery Cl. Fellow Clinical Neurophysiology Cl. Fellow Orthodontics Resident General Surgery Resident Pathology Nephrology Trainee Cl. Fellow Resident Medicine/Pediatrics CI. Fellow Nephrology Resident Pediatrics CI. Fellow Cardiology Resident Pediatrics Resident Internal Medicine Resident Psychiatry

Lori Ann Coburn, M.D. 2 Benton Edwards Cofer, M.D. 6 Michael Eugene Cole, M.D. 2 John Drew Colfax, M.D. 2 Richard Adrian Colletti, M.D. 5 Ronald Derek Collier, M.D. 1 Carletta Collins, M.D. 2 Jose Enrique Colon, M.D. 3 John Matthew Conover, M.D. 3 Anne Marie Conquest, M.D. 6 Benjamin John Coons, M.D. 2 Matthew Abraham Corriere, M.D. 5 Matthew Cortez, M.D. 5 Minerva Belen Covarrubias, M.D. 5 Alissa Anne Craft, M.D. 4 Alexander Davis Cranford, D.M.D. 1 5 Edward Cody Crase, M.D. 6 Clarence Buddy Creech, II, M.D. Jerry Jackson Crook, II, M.D., J.D. 3 Joy Elizabeth Crook, M.D. 2 Peter Fredrick Crossno, M.D. 4 lan Crozier, M.D. 6 2 Natalie Marie Curcio, M.D. 5 Eric Arthur Dame, M.D. 5 Julie Boyd Damp, M.D. Titus Luther Daniels, M.D. 5 2 Kamisha Adwoa Dantzler, M.D. 2 Adrienne Monique Darhower, M.D. 2 Lana Davenport, M.D. 3 Jennifer Lise Davis, M.D. 4 Bryan Matthew Davis, M.D. 2 Geoffrey Allen Day, M.D. 2 Amber Lee Degryse, M.D. 3 Jamie Nichole Deis, M.D. 4 Jeffrey Michael Dendy, M.D. Michael Karsten Dengel, M.D. 4 Nancy Marie Marguerite Denizard, M.D. 8 Joshua Charles Denny, M.D. 3 Nikhil Kishor Desai, D.M.D. Juliette Catalina Desjardins, M.D., J.D. 4 Rose Arackal Devasia, M.D. 5 4 Clinton James Devin, M.D. 4 Jessica Koch Devin, M.D. Chirag Ashok Dholakia, M.D. 2 Roberto Diaz, M.D. 2 Aaron Juel Didier, M.D. 1 Edward Jeffrey Dinkins, M.D. 3 3 Paula Herrmann Dinkins, M.D. Danielle Marie Dion, M.D 3 6 Kathryn Witcher Dixon, M.D. Rachel Marin Dolhun, M.D. 1 Jennifer Ann Domm, M.D. 6 Changhong Christine Dong, M.D. 5 Jill Erin Donovan, M.D. 4 Lesly Ann Dossett, M.D. З Kevin Michael Doulens, M.D. 6 Valentina Angelova Doumanian, M.D. 4

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Resident Internal Medicine Neonatology Cl. Fellow Resident Obstetrics and Gynecology **Emergency Medicine** Resident Child Psychiatry Resident Resident General Surgery Resident Internal Medicine Resident Child Neurology Resident Otolaryngology Resident Surgical Critical Care Resident Urology Chief Resident General Surgery CI. Fellow Neonatology Cl. FellowPulmonary Disease & Critical Care Resident Ophth. and Visual Sciences Resident Orthodontics Resident Radiology CI. Fellow Ped. Infectious Dis. Trainee Resident Internal Medicine Resident **Emergency Medicine** CI. Fellow Pulm. Disease & Critical Care CI. Fellow Infectious Diseases Res./Research Dermatology Trainee Resident Radiology CI. Fellow Cardiology CI. Fellow Infectious Diseases Resident Psychiatry Resident Emergency Medicine Resident Psychiatry Resident Pediatrics Resident Otolaryngology Resident Internal Medicine Resident Internal Medicine Resident Pediatrics CI. Fellow Cardiology Resident Neurology Chief Resident Internal Medicine Cl. Fellow **Biomed. Informatics Trainee** Resident General Surgery Resident Child Psychiatry CI. Fellow Infectious Diseases Resident Orthopaedics Cl. Fellow Endocrinology and Diabetes Resident General Surgery Resident Radiation Oncology Resident Obstetrics and Gynecology Resident Internal Medicine Internal Medicine Resident Resident Obstetrics and Gynecology CI. Fellow Ped. Endocrinology Trainee Resident Internal Medicine CI. Fellow Ped. Hemat./Oncology Trainee CI. Fellow Neurology Resident Anesthesiology Resident General Surgery Cl. Fellow Sports Medicine Resident Psychiatry

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Christine Kane Dove, M.D. Amy Robinson Doyle, M.D. Robert Adams DuBose, M.D. Ashley Ann Duckett, M.D. Nathaniel David Dueker, M.D. John William Duffy, III, M.D. Jacob Craig Duke, D.D.S. Coley Bryant Duncan, M.D. Julia Beall Passyn Dunn, M.D. Joy Louise Duong, M.D. Jamie Phillip Dwyer, M.D. Yvette Bordelon Dzurik, M.D. Truman Markley Earl, M.D. Aaron Wesley Eckhauser, M.D. Christina Marie Edwards, M.D. Charlotte Margaret Edwards, M.D. Kristin Joy Ehst, M.D. Laura Isabel Eichhorn, M.D. Christopher Randall Ellis, M.D. Douglas Hinten Emch, M.D. Michael Eugene Engel, M.D., Ph.D. Brian George Engelhardt, M.D. Mark Harold Enker, M.D. Jack William Erter, III, M.D. Eric Eskioglu, M.D. Cristina Maria Estrada, M.D. Alicia Pellegrino Ewing, M.D. Gideon Patelford Ewing, M.D. Michael Thomas Falcone, M.D. Sarah Pate Fandre, M.D. John Mark Fannin, M.D. Jeffrey John Fanning, M.D. Fariba Farhidvash, M.D. Rachel Evans Farmer, M.D. Brenna Michelle Farmer, M.D. Scott Binfield Farnham, M.D. John Henry Fasig, III, M.D. Seth David Feldman, D.D.S. Lindv Christine Fenlason, M.D. Sahba Ferdowsi, D.O. Daniel Clark Files, M.D. Kathryn Leigh Finch, M.D. Christopher Chad Findley, M.D. Kevin Richard Finnegan, M.D. Deidre Michels Fish, M.D. Robert Warne Fitch, M.D. John Adam Flatt, M.D. Gregory Allan Fleming, M.D. Paul Steven Fleser, M.D. Nicholas David Fletcher, M.D. John Robert Floyd, II, M.D. Laurel Elayne Fohn, M.D. Rachel Christine Forbes, M.D. Jessica Leigh Ford, D.O. Ilana Sharon Fortgang, M.D. Molly Rae Fortner, M.D. John Randolph Foster, III, M.D.

Resident Radiology Cl. Fellow Infectious Diseases Resident Thoracic Surgery Medicine/Pediatrics Resident Resident Radiology Resident Urology Resident Oral and Maxillofacial Surgery CI. Fellow Infectious Diseases Trainee CI. Fellow Endocrinology and Diabetes Resident Obstetrics and Gynecology Cl. Fellow Nephrology Resident Pathology Resident General Surgery General Surgery Resident Resident General Surgery Resident Internal Medicine Medicine/Pediatrics Resident General Surgery Resident Cl. Fellow Cardiology Chief Resident Child Psychiatry CI. Fellow Ped. Hemat./Onc.Trainee CI. Fellow Hematology/Oncology Resident Anesthesiology Resident Internal Medicine Resident Neurosurgery CI. Fellow Pediatric Emergency Medicine Resident Pediatrics Resident Internal Medicine Resident Otolaryngology Resident Anesthesiology Resident Anesthesiology Resident Pediatrics Cl. Fellow Neurology Pediatrics Resident Resident **Emergency Medicine** Chief Resident Urology Resident Pathology Resident Orthodontics Resident Pediatrics Resident Anesthesiology Resident Internal Medicine Resident Internal Medicine Resident **Emergency Medicine** Cl. Fellow Gastroenterology Resident Obstetrics and Gynecology CI. Fellow Sports Medicine Resident Child Neurology Resident Pediatrics Resident Vascular Surgery Resident Orthopaedics Resident Neurosurgery Resident Pathology Resident General Surgery Resident Psychiatry Pediatric Gastroenterology Cl. Fellow Resident Internal Medicine Resident Anesthesiology

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Dayanand Andrew Franklin, M.D. Jonathan William Frederick, D.M.D. Richard Douglas Fremont, M.D. Lesley Christine French, M.D. Brent Keith Frisbie, M.D. Natalie Kay Frost, M.D. Pinky Dalal Gaba, M.D. Shauna Lynn Gagner, M.D. KoriAnne Elkins Galler, M.D. Amy Dinesh Gandhi, M.D. Kim Frances Mary Gardner, M.D. Liby John Geevarghese, M.B., B.S. Carrie Anna Geisberg, M.D. Leslie Stuart Gewin, M.D. Giovanna Angela Giannico, M.D. Maria Christine Gillam, M.D. Michael Damian Gilles, M.D. Stephen Kyle Gimple, M.D. Timothy Daniel Girard, M.D. Christopher Robert Girasole, M.D. Jeffrey Allen Giullian, M.D. William Post Goins, II, M.D. Lori Rachel Goldman, M.D. John Joseph Goodfred, D.O. Brian Travis Goodman, M.D. Maje Denise Goodwin, M.D. Christina Lynn Gordon, M.D. Joann Stacey Goring, M.D. Kimberly Allison Gran, M.D. Joseph Angelo Greco, III, M.D. Garland Gary Green, M.D. Jennifer Kiser Green, M.D. Cynthia Ann Green, D.D.S. Michael Linden Green, M.D. David Gentry Greer, M.D. Michelle Leslie Griffith, M.D. Ryan Jerrod Grindstaff, M.D., Ph.D. Daniel Aaron Grippo, M.D. Eric Lee Grogan, M.D. Oliver L. Gunter, M.D. Sara Habibian, M.D. Heather Elise Hagerman, M.D. John Wyman Hairr, M.D. Nathan James Hall, M.D. Jennifer Lynne Halpern, M.D. David Hall Hammett, M.D. Ernest Chengshun Han, M.D. Erik Nels Hansen, M.D. Elizabeth Hodgson Harbison, M.D. Bradley Allen Hardin, M.D. Khary Oronde Harmon, M.D. Laura Elizabeth Harper, M.D. Adam William Harris, M.D. Leonard Jefferson Harris, Jr., M.D. Steven Marshall Harrison, M.D. Andrew James Hart, M.D. Justin Patrick Hart, M.D.

Resident Anesthesiology Oral and Maxillofacial Surgery Resident Cl. FellowPulmonary Disease & Critical Care Resident General Surgery Resident Radiology Resident Pediatrics CI. Fellow Infectious Diseases Pediatrics Resident Ophth. and Visual Sciences Resident Medicine/Pediatrics Resident Resident Pediatrics Psychiatry Resident Internal Medicine Resident CI. Fellow Nephrology Resident Pathology Resident Medicine/Pediatrics Resident Internal Medicine Resident Internal Medicine Cl. Fellow Pulm. Dis. & Crit. Care Trainee Resident Urology CI. Fellow Nephrology CI. Fellow Infectious Diseases Resident Pediatrics Resident Anesthesiology Anesthesiology Resident Resident Pediatrics Resident **Emergency Medicine** Resident Internal Medicine Resident Pediatrics CI. Fellow Plastic Surgery CI. Fellow Cardiology Resident Medicine/Pediatrics Resident Orthodontics Resident Pediatrics Resident Neurology Resident Internal Medicine Resident Anesthesiology Resident Radiology Chief Resident General Surgery Resident Surgical Critical Care Resident Obstetrics and Gynecology Resident Anesthesiology Resident Anesthesiology Resident Internal Medicine Chief Resident Orthopaedics CI. Fellow Neurology Resident Internal Medicine Res./Research General Surgery Resident Emergency Medicine Resident Internal Medicine Resident **Emergency Medicine** Resident Neurology Resident Radiology Resident Medicine/Pediatrics Resident Anesthesiology Resident Internal Medicine Resident Internal Medicine

Ryan L. Hartman, M.D. Uzma Hasan, M.D. John Matthew Hassan, M.D. Susan Rescorla Hata, M.D. Jacob Walter Hathaway, M.D. Allison Romayne Hatmaker, M.D. Stephany Michelle Hawk, M.D. Benjamin Bailey Hayes, M.D. Benjamin Sloan Heavrin, M.D. Nicole Leigh Heidemann, M.D. Scott James Henderson, M.D. Travis Scott Henry, M.D. Jan Andries Herholdt, M.B., Ch.B. Jennifer Rachel Herrell, M.D. Nariman Heshmati, M.D. Mark Daniel Hicar, M.D., Ph.D. Kevin Dennis Hill, M.D. Matthew David Hill, D.D.S. Eric Michael Hill, M.D. Eric Andrew Himmelfarb, M.D. William Lyle Hinds, III, M.D. Lam H. Hoang, D.D.S. Katherine Anne Hoeft, M.D. Timothy Sean Hofeldt, M.D. Derek Weldon Holland, M.D. Ryan Michael Holthaus, M.D. Igen Hongo, M.D. Robert Liles Hooker, M.D. Leah Rae Hooker, M.D. Michael Hee Hooper, M.D. Nikolay Petrov Horozov, M.D. Joshua Russell Houser, M.D. Joshua Ki Hu, M.D. Xuejiao Hu, M.D. Theresa Tien-Ho Huang, M.D. Robert Long Huang, M.D. Mark David Hughes, M.D. Christopher G. Hughes, M.D. Mary Margaret Huizinga, M.D. Martha Elizabeth Huller, M.D. Aaron James Hunt, M.D. Helen Wiener Hutcherson, M.D., Ph.D. Mei-Tsuey Hwang, M.D. Carey Kang-lun Hwang, M.D., Ph.D. John Walter Idoux, M.D. Rachel Toluope Idowu, M.D. Rebecca Lynn Isbell, M.D. James Michael Isbell, M.D. Prat Itharat, M.D. Juan Miguel Iturregui, M.D. Meg Elizabeth Jack, M.D. Autumn Lindsey Jackson, M.D. Dorsha Nicole James, M.D. Denise A. John, M.D. Jeffery Chad Johnson, M.D. Jennifer Lynne Johnson, M.D. Roger Frank Johnson, M.D.

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Resident Orthopaedics Pediatrics Resident Chief Resident Urology Medicine/Pediatrics Resident Resident Internal Medicine Res./Research General Surgery Resident Pediatrics Resident Dermatology **Emergency Medicine** Resident Obstetrics and Gynecology Resident Resident Anesthesiology Internal Medicine Resident Resident Anesthesiology CI. Fellow Cardiology Obstetrics and Gynecology Resident Resident Pediatric Infectious Diseases Pediatric Cardiology Cl. Fellow Resident Orthodontics Resident Internal Medicine Resident Pathology Resident Addiction Psychiatry Resident General Surgery Resident Pediatrics Resident Psychiatry CI. Fellow Hematology/Oncology Resident Radiology Cl. Fellow Infectious Diseases Resident Radiology Resident Internal Medicine Resident Internal Medicine Chief Resident Addiction Psychiatry Resident Radiology Ophth. and Visual Sciences Resident Cl. Fellow Renal Pathology Resident Radiology Resident General Internal Medicine Resident Anesthesiology Resident Anesthesiology Resident General Internal Medicine Resident Radiology Resident Psychiatry Resident Psychiatry CI. Fellow Nephrology CI. Fellow Infectious Diseases Resident Internal Medicine Resident General Surgery Resident Pediatrics General Surgery Resident Resident Ophth. and Visual Sciences Cl. Fellow Renal Pathology Resident **Emergency Medicine** Internal Medicine Resident Resident **Emergency Medicine** Ophth. and Visual Sciences Resident General Surgery Res./Research Cl. Fellow Hematology/Oncology CI. Fellow Pulm, Dis. & Crit, Care Trainee

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Bryan Irby Johnston, M.D. Clay Travis Jones, M.D. Christopher Michael Jones, M.D. Martin Ivanov Jordanov, M.D. Katherine Gilleland Joslin, M.D. Mercedes Villanueva Judkins, M.D. Charlie Jung, M.D. Sara Marshall Kantrow, M.D. John M Karamichalis, M.B., B.S. Edward Matthew Karl, M.D. Osama Kattih, M.D. Ryan Matthew Kauffman, M.D. Melissa Rae Kaufman, M.D. Jennifer Ann Keates-Baleeiro, M.D. Vicki Leigh Keedy, M.D. Christopher Jay Keefer, M.D. William Brian Kendall, M.D. Jennifer Patton Ker, M.D. Paul C. Kerr, D.O. Christine Elizabeth Keyes, M.D. Kristal Tamara Keys, M.D. Aziz Alexander Khanifar, M.D. Laila Khazai, M.D. Dong Wook Kim, M.D., Ph.D. John Thomas Kimbrough, III, M.D., Ph.D.6 Matthew Sidney King, M.D. Kelly Fair King, M.D. Kelly Ann Kirby Ortega, M.D. Leise Rose Knoepp, M.D. Felicitas Lan-Feng Koller, M.D. Michelle Elaine Koski, M.D. Alexandre Atanassov Koumtchev, M.D. Bradley Todd Kovach, M.D. Mark Mendel Krakauer, M.D. Jared Noah Kravitz, M.D. Megan Kielt Kressin, M.D. Ari Yaakov Krug, D.M.D. Meenal Girish Kulkarni, M.D. Sathappan Kumar, M.B., B.S. Rachel LaMar Kurian, M.D. Benji Thomas Kurian, M.D. Emily Denise Graham Kurtz, M.D. Matthew Adam Kutny, M.D. Diane Fiddler Kutny, M.D. Christopher Robert Kuzniak, M.D. Helene Rose Labonte, D.O. Soheil Saul Lahijani, M.D. Christine Barone Lancaster, M.D. Maria Dimitrova Latev, M.D. Laurie Macpherson Lawrence, M.D. George Asbury Lawson, III, M.D. Truc Minh Le, M.D. Richard Lindsey Lebow, M.D. Joshua Ether Lee, M.D. Christopher David Lee, M.D. Trang Diem Lehman, M.D. Jaclyn Mary Lekse, M.D.

Resident General Surgery Resident Pediatrics Res./Research General Surgery Chief Resident Radiology Resident Pediatrics CI. Fellow Pediatric Critical Care Resident Urology Resident Dermatology Thoracic Surgery Resident Resident Psychiatry Cl. Fellow Pediatric Critical Care Resident Otolaryngology Resident Urology CI. Fellow Ped. Hema./Oncology Trainee CI. Fellow Hematology/Oncology CI. Fellow Pediatric Infectious Diseases Resident Anesthesiology Resident Pediatrics Resident Surgical Critical Care Resident **Emergency Medicine** Resident Anesthesiology Resident Ophth. and Visual Sciences Resident Pathology Chief Resident Radiation Oncology Cl. Fellow Cardiology Resident Internal Medicine Resident Pediatrics Resident Anesthesiology Resident Obstetrics and Gynecology Resident General Surgery Resident General Surgery Resident Psychiatry Resident Dermatology Medicine/Pediatrics Resident Resident Internal Medicine Resident Pathology Chief Resident Orthodontics Resident Anesthesiology CI. Fellow Thoracic Surgery Resident Obstetrics and Gynecology Chief Resident Psychiatry CI. Fellow Cardiology Trainee Resident Pediatrics Resident Pediatrics Resident General Surgery CI. Fellow Geriatric Medicine Resident Plastic Surgery Resident **Emergency Medicine** Resident General Surgery CI. Fellow Pediatric Emergency Medicine Resident General Surgery Resident Pediatric Critical Care Resident Neurosurgery Resident General Surgery Resident Neurology Resident Anesthesiology Chief Resident Ophth. and Visual Sciences

Kristina Jo Leland, M.D. Andrew Jacob Lenneman, M.D. Alejandro Leon, M.D. Joe Preston Lester, D.O. Reagan Rochelle Leverett, M.D. Victor York Levy, M.D. Charles Matthew Levs, M.D. Elizabeth Hearon Lindsey, M.D. Catherine Russell Linn, M.D. Jennifer Starr Listerman, M.D. Andy Leeping Lo, M.D Mary Caroline Long, M.D. William Thomas Lowrance, M.D. Bryan R. Ludwig, M.D. Daniel Gardner Lustig, M.D. James Matthew Luther, M.D. Natasha Janelle Magnuson, M.D. Robert Andrew Magnussen, M.D. Dee Malkerneker, M.D. Brad Edward Maltz, M.D. Paul C. Mann, M.D. Alfred Ameen Mansour, III, M.D. Clinton Andrew Marlar, M.D. Annis Morison Marney, M.D. Gary Thomas Marshall, M.D. Benjamin Paul Martel, M.D. Kenisha Rochelle Martin, M.D. Jennifer Dempsey Martin, M.D. Jason Brantley Martin, M.D. Karen Elizabeth Martin, M.D. Danko Martincic, M.D. William Jeffrey Mason, M.D. Stephen Edward Mason, M.D. Lawrence Edward Mason, Jr., M.D. James Daniel Massie, Jr., M.D. Nima S. Massoomi, D.M.D., M.D. Wade Bolton May, M.D. Stephanie Ann McAbee, M.D. Allison Shivers McBride, M.D. Danny Boyd McCaughan, M.D. Sara Ann McClintock-Treep, M.D. Ian Thomas McClure, M.D. Nicole Streiff McCoin, M.D. Thomas Gerald McConnell, M.D. Robert Daryl McCray, M.D. James Herndon McElmurray, III, M.D. Jason Glenn McGill, M.D. Stuart McGrane, M.B., Ch.B. Shaun Cristin McGuinn, M.D. Lusanne Lilly McKenzie, M.D. Jared John McKinney, M.D. Sheila Patricia McMorrow, M.D. William Earl Mcrae, III, M.D. Vlada Vicki Melekhin, M.D. Kelly Edward Melvin, M.D. Karen Schilf Meredith, M.D. Mark Logan Meredith, M.D.

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Resident Pathology Internal Medicine Resident Resident Ophth. and Visual Sciences Resident Anesthesiology Resident Radiology Cl. Fellow Neonatology Res./Research General Surgery CI. Fellow Gastroenterology Resident Internal Medicine Internal Medicine Resident Resident Pathology Resident Pediatrics Resident Urology Neurology Resident Cl. Fellow Pediatric Gastroenterology CI. Fellow Nephrology Trainee Internal Medicine Resident Resident Orthopaedics Chief Resident Nuclear Medicine Resident Internal Medicine Resident Pediatrics Resident General Surgery Resident General Surgery Resident Internal Medicine Resident Surgical Critical Care Resident Medicine/Pediatrics Resident Internal Medicine Chief Resident Dermatology Chief Resident Internal Medicine Resident Internal Medicine CI. Fellow Hematology/Oncology Resident Internal Medicine Chief Resident Pathology Resident Radiology CI. Fellow Neuroradiology Resident Oral and Maxillofacial Surgery Resident Internal Medicine Cl. Fellow Gastroenterology Pediatric Emergency Medicine CI. Fellow CI. Fellow Neonatology Resident Pathology Resident Emergency Medicine Resident Emergency Medicine Resident Pathology Resident Internal Medicine Resident Radiology Cl. Fellow Vasc./Interventional Radiology Resident Anesthesiology Resident Obstetrics and Gynecology Chief Resident Psychiatry Resident Emergency Medicine CI. Fellow Pediatric Emergency Medicine Resident Anesthesiology CI. Fellow Infectious Diseases Resident Psychiatry Chief Resident Pediatrics CI. Fellow Pediatric Emergency Medicine

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Ryan Ray Meyer, M.D. Rebecca Ashlev Milam, M.D. Thor Carl-Edvard T. Milland, M.D. Andrew John Miller, D.D.S. Andrew Caleb Miller, M.D. Eva Kathryn Miller, M.D. Matthew Scott Miller, M.D. Alison Nemeth Miller, M.D. Russell Raymond Miller, III, M.D. Berthrone L. Mock-Muhammad, M.D. Saeed Mohammad, M.B., B.S. Kenneth Joseph Monahan, M.D. Sean Ryan Moore, M.D. Daniel Jensen Moore, M.D., Ph.D. Derek Edd Moore, M.D. Carrie Ingram Morgan, M.D. Brent Jerome Morris, M.D. Nick Samuel Morrow, D.M.D. Jonathan Randall Moss, M.D. Jessica Jane Moss, M.D. \Davit Mrelashvili, M.D. Kaushik Mukherjee, M.D. James A. Sheerin Muldowney, III, M.D. Kenneth Lynn Muldrew, M.D. Gregory William Munson, M.D. Nicole Elizabeth Muscato, M.D. Amy C. Morris Musiek, M.D. Reza Nazemzadeh, M.D. Andrew Charles Neck, M.D. Daniel Alan Nahrwold, M.D. Bryce Allen Nelson, M.D., Ph.D. Bradford Alexander Nelson, M.D. Amanda Nelson Nelson-Ragle, M.D. Jonathan C. Newton, M.D., Ph.D. Alpa Manchandia Nick, M.D. Kenneth John Niermann, M.D. Allison Eaddy Norton, M.D. Sara Melissa Norvell, M.D. John Michael Norvell, M.D. Robin Lynn Obenchain, M.D. Daniel Michael Oberer, M.D. Carmine Vincent Oddis, M.D., Ph.D. David Picman Ohmstede, M.D. Henry Ewelike Okafor, M.B., B.S. Martina Ifeoma Okwueze, M.D. Charlotte Ann O'Leary, M.D. Jason Bradley Olinger, M.D. Matthew R. O'Malley, M.D. Patrick Wright O'Mara, M.D. Siam Oottamasathien, M.D. Fiona Mary O'Reilly, M.D. Andrea Orfanakis, M.D. Melissa Rennella Ortega, M.D. Kenneth John Ortiz, M.D. Bridget Anne Ory, M.D Daniel Eric Oxford, D.D.S. Jason Ricklin Pack, M.D.

Cl. Fellow Pediatric Critical Care Chief Resident Radiology General Surgery Resident Oral and Maxillofacial Surgery Resident Resident Anesthesiology Resident Allergy and Immunology Resident Medicine/Pediatrics Cl. FellowPulmonary Disease & Critical Care Cl. FellowPulmonary Disease & Critical Care Cl. Fellow Cardiology Resident Pediatrics CI. Fellow Cardiology Resident Pediatrics Resident Pediatrics Chief Resident General Surgery Resident Pediatrics General Surgery Resident Oral and Maxillofacial Surgery Resident Resident General Surgery Resident Internal Medicine Resident Neurology Resident General Surgery CI. Fellow Cardiology Resident Pathology Resident Internal Medicine Resident Pathology Resident Dermatology CI. Fellow Hematology/Oncology Resident Medicine/Pediatrics Resident Anesthesiology Resident Pediatrics Chief Resident Urology Resident Radiology Resident Anesthesiology Resident Obstetrics and Gynecology Resident Internal Medicine Resident Pediatrics Resident Anesthesiology Allergy and Immunology Resident CI. Fellow Hematology/Oncology Resident Neurosurgery CI. Fellow Clin. Card. Electrophys. Trainee CI. Fellow Pediatric Cardiology CI. Fellow Clinical Cardiac Electrophys. CI. Fellow Critical Care Anesthesia Resident Internal Medicine Resident Anesthesiology Chief Resident Otolaryngology CI. Fellow Neonatology CI. Fellow Pediatric Urology CI. Fellow Dermatology Resident Anesthesiology Chief Resident Neurology Plastic Surgery Resident Resident Internal Medicine Resident Orthodontics Resident Radiology

Kevin Terrence Palka, M.D. Kendra Papson, M.D. Keshini Chunilal Parbhu, M.D. Christopher Louis Paris, M.D. Dean Kim Park, M.D. Rebecca Lynn Partridge, M.D. Rita Daniell Paschal, M.D. Manish Rajni Patel, M.D. Ashish Shashikant Patel, D.M.D. Anup D. Patel, M.D. Thomas Herbert Patton, IV, M.D. Joseph Rine Payne, M.D. Meghan Jane Perkins, M.D. April Christine Pettit, M.D. Fenna Tanner Phibbs, M.D. Erin Lea Phillips, M.D. Ketsia Bersy Pierre, M.D. Tunghi May Pini, M.D. Elizabeth Battle Pitchford, M.D. Clovis Warren Pitchford, M.D. Adam Scott Pitts, D.D.S. Erin Jean Plosa, M.D. Kimberly Renee Plourde, M.D. Gregory Gerald Polkowski, II, M.D. Molly McCracken Pont, M.D. Stephen James Pont, M.D. Jason Edward Pope, M.D. Tanya D. Porashka, M.D. Diego Porras, M.D. Benjamin Kuttikatt Poulose, M.D. Pinki Kumari Prasad, M.D. Tracie Michelle Prevatte, D.M.D. Michael Jeremy Quadrini, M.D. Vidya Raj, M.B., Ch.B. Deepak Raja, M.D. RayAnn Marie Ralls, M.D. Brandon Aaron Ramo, M.D. Luis Felipe Ramos, Jr., M.D. Thomas Patrick Rauth, M.D. Arnab Ray, M.D. Brendan Wesley Reagan, M.D. Adhikari Varaprasad Reddy, M.D. Adam Shawn Reig, M.D. Brent Neil Rexer, M.D., Ph.D. Christian James Rhea, D.O. Melissa M. Rhodes, M.D. Troy Edward Rhodes, M.D., Ph.D. Robert Lamar Rice, M.D., Ph.D. Austin Taylor Rich, M.D. Stephanie Michelle Richling, M.D. Holly Denise Richter, M.D. Patricia Sizemore Ritch, M.D., Ph.D. Tanya Rivera-Tyler, M.D. Robert Riviello, M.D Christopher William Robb, M.D., Ph.D. Peter Gordon Robertson, M.D. Amy Catherine Robertson, M.D.

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Cl. Fellow Hematology/Oncology Resident **Emergency Medicine** Resident Ophth. and Visual Sciences Internal Medicine Resident Cl. Fellow Hematology/Oncology Cl. Fellow Pediatric Emergency Medicine Internal Medicine Resident Internal Medicine Resident Resident Oral and Maxillofacial Surgery Chief Resident Child Neurology Resident Internal Medicine Internal Medicine Resident Resident Pediatrics Resident Internal Medicine Resident Neurology Resident Neurology Resident General Surgery Resident Internal Medicine Resident Pediatrics Resident Pathology Resident Oral and Maxillofacial Surgery Resident Pediatrics Resident **Emergency Medicine** Resident Orthopaedics Neonatology Cl. Fellow CI. Fellow Pediatrics Trainee Resident Anesthesiology Resident Psychiatry Resident Pediatric Cardiology Res./Research General Surgery CI. Fellow Ped. Hematology/Oncology Resident Orthodontics CI. Fellow Nephrology Resident Psychiatry Resident Ophth. and Visual Sciences Resident Anesthesiology Resident General Surgery Cl. Fellow Nephrology Resident General Surgery Resident Internal Medicine Resident Internal Medicine Resident Neurosurgery Resident General Surgery CI. Fellow Hematology/Oncology CI. Fellow Rheumatology CI. Fellow Ped. Hemat./Oncology Trainee CI. Fellow Cardiology Trainee Hematology/Oncology CI. Fellow Resident Anesthesiology CI. Fellow Pediatric Emergency Medicine Resident Anesthesiology Resident Child Neurology Resident **Emergency Medicine** Chief Resident General Surgery Resident Dermatology Resident Internal Medicine Resident Anesthesiology

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Eliza Ellis Robertson, M.D. David Anthony Robertson, M.D. Danielle Leigh Rode, M.D. Adrian Ofir Rodriguez, M.D. Sarah Louise Rohde, M.D. Christopher D. Roman, M.D. Erin Renee Rudzinski, M.D. Jon Andrew Rumohr. M.D. Stephan Russ. M.D. Robert Thomason Russell, M.D. Brad Russell, M.D. Anup Kumar Sabharwal, M.D. Jon Gregory Sabol, D.D.S., M.D. Martin Ignacio Salgueiro, D.D.S. Charles Phillip Samenow, M.D., M.P.H. Uchechukwu K. A. Sampson, M.B., B.S. Gabriela Beatriz Sanchez, M.D. David Lawrence Sanders, M.D. Neil Sanat Sanghani, M.D. Mohan Sathyamoorthy, M.D. Adam Troy Schaefer, D.M.D. Michelle Weber Schierling, M.D. Carl R. Schmidt, M.D. Jonathan Allen Schneider, M.D. Jonathan G. Schoenecker, M.D., Ph.D. Jason John Schrager, M.D. Jennifer Lange Schuberth, M.D. Robert Myles Scoggins, M.D., Ph.D. Patricia Lee Scott. M.D. Catherine Rufatto Sears. M.D. John Michael Seelev, M.D. Paul Bradley Segebarth, M.D. James Felder Selph, M.D. Stephen Holloway Settle, Jr., M.D. Carla Marin Sevin, M.D. Robert Lee Sevmour, M.D., Ph.D. Libby Lovett Shadinger, M.D. Chirayu Shah, M.D. Fouzia Alam Shakil, M.B., B.S., PhD Amy Elizabeth Shaw, M.D. Wesley Ray Shealey, M.D. Andrea Marcogliese Sheehan, M.D. Cynthia Lester Shepherd, M.D. Bradley David Shepherd, M.D. Kimberly Suzanne Shimer, M.D. Chong Yun Shin, D.D.S. Jason Lee Shipman, M.D. Munial G. Shroff. D.O. Aiav Kumar Shukla, M.B., B.S. Rigoberto Luis Sierra-Anderson, M.D. Edward D. Siew. M.D. Karl Arthur Sillav. M.D. Cheri Alissa Silverstein, M.D. Gilbert Manuel Simas, M.D. George Heath Simmons, M.D. Scott Douglas Simon, M.D. Vikas Prakash Singh, M.D.

Resident Internal Medicine Resident Neurology Resident Pediatrics Resident Dermatology Resident Otolaryngology Resident Radiology Resident Pathology Resident Urology Resident **Emergency Medicine** Resident General Surgerv Resident **Emergency Medicine** CI. Fellow Endocrin, and Diabetes, Trainee Chief Resident Oral and Maxillofac.Surgery Resident Oral and Maxillofacial Surgery Chief Resident Psychiatry CL Fellow Cardiology Otolaryngology Resident CI. Fellow Biomed. Informatics Trainee Resident Internal Medicine CL Fellow Cardiology Resident Oral and Maxillofacial Surgery Resident **Emergency Medicine** Chief Resident General Surgerv Resident Internal Medicine Resident Orthopaedics Res./Research General Surgerv CI. Fellow General Internal Medicine Cl. Fellow Pulm. Disease and Critical Care Resident Obstetrics and Gynecology Resident Internal Medicine CI. Fellow Clinical Neurophysiology Resident Orthopaedics Resident Neuroloav Resident Internal Medicine Resident Internal Medicine Resident Pathology Resident Radiology Resident Nuclear Medicine CL Fellow Hematopathology CI. Fellow Endocrinology and Diabetes CI. Fellow Infectious Diseases CI. Fellow Hematopathology Resident Internal Medicine Resident Internal Medicine CI. Fellow Neonatology Resident Orthodontics Resident Radiology Resident Child Psychiatry CI. Fellow Clinical Neurophysiology Resident Anesthesiology CL Fellow Nephrology Resident Neurosurgery Resident Internal Medicine Resident Psvchiatrv Resident Anesthesiology Resident Neurosurgery Resident Otolaryngology

India Yount Sisler, M.D. Christopher Michael Sizemore, D.O. Stephen O Slattery, M.D. Shiloh Suzan Smaistrla, M.D. Clarence Edwin Smith, M.D. Brian Stanley Smith, M.D. James Peter Smith, M.D. Andrew Harold Smith, M.D. Jesse Joshua Smith. M.D. Keegan Marcus Smith, M.D. Katherine Lindley Spaht, M.D. Cindy Beth Spanier, M.D. Jonathan Michael Spanier, M.D. John Spooner, M.D. Natalie M. Spradlin, M.D. Manakan Betsy Srichai, M.D. John Michael Stafford, M.D., Ph.D. Matthew Blake Stahlman, M.D. Jeffrey David Stamler, M.D. Andrew Alexander Stec, M.D. Shane Stenner, M.D. Merielle Marie Stephens, M.D. Charles Brvce Stevenson, M.D. Shannon Elizabeth Stinnett, M.D. Travis Lane Stork, M.D. Stacy Ann Stratemann, M.D. David Francis Street, M.D. Stephen Anthony Strickland, Jr., M.D. Bradly Strohler, M.D. Sebastian Sune Strom, M.D. Andrew Wesley Stubblefield, M.D. Thomas Carlyle Stuckey, III, M.D. Jordan William Stuckey, M.D. Jennifer Rae Stumph, M.D. Christopher Michael Stutz, M.D. Anupama Subramony, M.D. Tammy Lynn Suggs, M.D. Karen Lowry Summar, M.D. Eric Larry Sumner, M.D. David Antonio Sun. M.D. Jachi George Sun, M.D. Jennifer Marie Sundberg, M.D. Marcy Marie Swogger, M.D. Myles Todd Taffel, M.D. Helen Keipp Bredenberg Talbot, M.D. Ravi Tandon, M.D. Jenifer Lynne Tanner, M.D. Tiffanie Lavon Tate Moore. M.D. Alon Tatsas, M.D. Armanda Dornier Tatsas. M.D. Tania Francois Tavah. M.D. Jane Bowen Taylor, M.D. Ronald Guy William Teed, M.D. Viviana Maria Temino. M.D. Kyla Phyllis Terhune, M.D. Kyle Marion Tharp, M.D. Ansley Sanborn Tharpe, M.D.

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Resident Pediatrics Resident Obstetrics and Gynecology Resident Anesthesiology Resident Obstetrics and Gynecology Resident Radiology CI. Fellow Gastroenterology CI. Fellow Nephrology Trainee CI. Fellow Pediatric Cardiology Resident General Surgery Resident Pediatrics Resident Pediatrics Resident Pathology Resident Pediatrics Resident Neurosurgerv Resident Internal Medicine CL Fellow Nephrology CL Fellow Endocrinology and Diabetes CI. Fellow Interventional Cardiology Resident Anesthesiology Resident Urology Resident Internal Medicine Resident Obstetrics and Gynecology Resident Neurosurgerv CI. Fellow Hematology/Oncology Resident **Emergency Medicine** CI. Fellow Pediatric Cardiology Resident Psvchiatrv CL Fellow Hematology/Oncology CL Fellow Ped. Critical Care.Trainee Chief Resident Internal Medicine Resident Pediatrics Resident **Ophth.and Visual Sciences** Resident Anesthesiology Chief Resident Pathology Resident General Surgery Resident Pediatrics Resident Psvchiatrv CL Fellow Child Develop. Ctr. Trainee CI. Fellow Gastroenterology Resident Neurosurgerv Resident Internal Medicine Resident Pediatrics Resident Pediatrics Resident Radiology CI. Fellow Infectious Diseases Resident General Surgerv Resident **Emergency Medicine** Resident Obstetrics and Gynecology CI. Fellow Pediatric Anesthesiology Resident Pathology CL Fellow Clini. Neurophysiol. in Epilepsy Resident Pediatrics Resident Ophth. and Visual Sciences Resident Internal Medicine Resident General Surgery Resident Radiology Resident Internal Medicine

7 Carter Edwin Tharpe, M.D. Wesley Paul Thayer, M.D., Ph.D. 6 Karen Christiane Theilade, M.D. 3 Lora Denise Thomas, M.D. 6 Lacev Mitchell Thomas. M.D. 2 7 John C. Thomas, M.D. 5 Kenneth Tyson Thomas, M.D. Bradlev Phillip Thomas, M.D. 4 Isaac Peter Thomsen, M.D. 2 Robert Drummond Thornton, II, M.D. 4 Thomas Ward Throckmorton, M.D. 4 Julie Irene Thwina, M.D. Δ Sergei Nicolayevich Tikhonenkov, M.D. 3 Zandraetta L. Tims-Cook. M.D. 1 Dina C. Titova, M.D. 4 Anne Kristin Tomlinson, M.D. 1 Rachel Celeste Tonev. M.D. 3 Jessica Torrente, M.D. 3 Rachel Gaines Triche, M.D. 1 5 Maria Luisa Trirogoff, M.D. Sherstin Gabrielle Truitt, M.D. 4 2 Athanasios Christos Tsiatis, M.D. Carson Robert Turner, M.D. 3 3 Sarah Schafer Turner, M.D. 2 Katherine W. Turner, M.D. 4 Richard Tyson, M.D. 2 Aiith Kumar Ulivargoli, M.B.,B.S. Charles Thompson Upchurch, M.D. 2 Robert Scott Valet, M.D. 1 Yuri Frederik van der Heijden, M.D. 1 Vanessa Leigh Van Duvn. M.D. 2 Nathan Lee Van Zeeland, M.D. 3 Heinro Van Zyl, M.D. 1 Charles Phillip Blair Vanderpool, M.D. 1 Daniel J. VanHimbergen, M.D. 3 Bradlev James VanSickle, M.D., Ph.D. 2 Dana Deaton Verner, M.D. 2 John Thomas Vernon, M.D. 1 5 Jeremy D. Vos, M.D. Hung Thanh Vu, M.D. 1 Jeffrey Michael Waldman, M.D. 3 Lynsay LeighAnne Waller, M.D. 1 1 Dena Lynn Strube Walsh, M.D. Mark Wayne Walter, M.D. Δ 7 Frank M. Warren, M.D. Michael Dale Warren, M.D. 3 Irfan Ahmed Warsv. M.B.,B.S. 2 Scott Christopher Watkins, M.D. 3 Amy Lara Weiss, M.D. 3 Jorn-Hendrik Karl-Wilhelm Weitkamp, M.D. 6 Jonathan Chase Welch, M.D. 2 Robert Allan Wells. M.D. 1 Christopher A. Wells, M.D., Ph.D. 2 George Allen West, D.D.S. 2 Kevin Dale West, D.M.D. 3 2 Natalie Elliott West, M.D. Richard Oliver White, III, M.D. 4

CL Fellow Interventional Cardiology Resident Plastic Surgery Resident Internal Medicine CI. Fellow Infectious Diseases Resident Dermatology CI. Fellow Pediatric Urology Chief Resident General Surgery Resident Radiology Resident Medicine/Pediatrics Resident Anesthesiology Resident Orthopaedics Resident Medicine/Pediatrics Resident Urology Resident Internal Medicine CL Fellow Rheumatology Resident Obstetrics and Gynecology Resident Internal Medicine Resident Radiology Resident General Surgery CL Fellow Nephrology Resident Medicine/Pediatrics Resident Pathology Resident Internal Medicine Anesthesiology Resident Resident Anesthesiology Cl. FellowPulmonary Disease & Critical Care Resident General Surgerv Resident Internal Medicine Resident Internal Medicine Resident Internal Medicine Resident Radiology Resident Orthopaedics Resident Emergency Medicine Resident Pediatrics Resident Otolaryngology Resident Pediatrics Resident Psychiatry Resident Psychiatry Chief Resident Otolaryngology Resident **Emergency Medicine** Resident Anesthesiology Resident Internal Medicine Resident General Surgery Resident Psychiatry Resident Otology-Neurotology Resident Pediatrics Chief Resident Pediatrics Resident Anesthesiology Resident Pediatrics CI. Fellow Neonatology Resident Ophth. and Visual Sciences Resident Anesthesiology Resident Internal Medicine Resident Orthodontics Resident General Surgerv Resident Internal Medicine Resident Medicine/Pediatrics

CL Fellow Gastroenterology Resident Orthopaedics Orthodontics Resident Resident Internal Medicine CI. Fellow Pulm. Dise. & Crit. Care Trainee Resident Radiation Oncology Resident Anesthesiology CI. Fellow Ped. Gastroenterology Trainee CL Fellow Gastroenterology CI. Fellow Pulm, Disease & Critical Care CI. Fellow Hematology/Oncology General Surgery Resident Resident Child Neurology CL Fellow Genetic Medicine Resident Psychiatry Resident Allergy and Immunology Resident Otolaryngology Resident Internal Medicine Resident General Surgery Resident Pediatrics Resident General Surgery Resident Pediatrics CI. Fellow Ped. Hematology/Oncology Resident Otolaryngology Resident Pediatrics Resident Internal Medicine Resident Orthopaedics Resident Radiation Oncology CI. Fellow Cardiology Resident Neurosurgery Pathology Resident Nephrology CI. Fellow Resident Pediatrics CL Fellow General Surgery Resident Neurosurgery Resident General Surgery Res./Research Dermatology CL Fellow Cardiology CL Fellow Nephrology Resident General Surgery