∇anderbilt University Medical Center







Medical Center School of Medicine Hospital and Clinic



Vanderbilt University 2004/2005

Containing general information and courses of study for the 2004/2005 session corrected to 30 June 2004 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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Medical Center

Medical School Calendar 2004/2005

FALL SEMESTER 2004

Registration and classes begin 4th year and half of 3rd year class / Monday 5 July Registration and classes begin other half of 3rd year class / Monday 2 August

Registration 2nd year / Monday 9 and Tuesday 10 August

Registration 1st year / Monday 9 to Friday 13 August

Classes begin 2nd year / Wednesday 11 August

Classes begin 1st year / Monday 16 August

Labor Day holidays for 1st, 2nd and 4th year classes / Monday 6 September

Mid-term exams 2nd year class / Monday 11 to Thursday 14 October

Fall break 1st year class / Wednesday 13 to Sunday 17 October

Fall break 2nd year class / Thursday 14 to Sunday 17 October

Thanksgiving holidays / Thursday 25 to Sunday 28 November

Exam period elective courses 1st and 2nd years / Monday 6 to Friday 10 December

Exam period required courses 1st and 2nd years / Monday 13 to Thursday 16 December

Fall semester ends 1st and 2nd years / Friday 17 December

Fall semester ends 3rd and 4th years / Friday 17 December

Holidays 1st and 2nd year classes / Friday 17 December to Monday 3 January Holidays 3rd and 4th year classes / Saturday 18 December to Monday 3 January

SPRING SEMESTER 2005

Spring semester begins 1st, 2nd, 3rd and 4th year classes / Tuesday 4, January Mid-term exams 1st and 2nd year classes / Monday 21 to Friday 25 February Spring holidays 1st and 2nd years / Saturday 26 February to Sunday 6 March Spring holidays 3rd year (Med., Surg.) / Saturday 12 to Sunday 20 March Spring holidays 4th year TBA

United States Medical Licensing Examination - Step 2 / TBA

Instruction ends 4th year / Friday 23 April

Spring holidays 3rd year (Ob/Gyn, Peds, Psych, Neuro)/ Saturday 23 April to Sunday 1

Exam period elective courses 1st and 2nd years / Monday 25 to Friday 29 April

Instruction ends required courses 1st year / Friday 29 April

Instruction ends required courses 2nd year / Friday 6 May

Reading Period 1st year only / Wednesday 28 to Friday April 30

Exam period required courses 1st year / Monday 2 May to Thursday 5 May

Reading Period 2nd year only / Wednesday 5 to Sunday 9 May

Exam period required courses 2nd year / Monday 9 to Thursday 12 May

Commencement / Friday 13 May

Emphasis Program / 16 May - 7 August

United States Medical Licensing Examination - Step 1 / TBA

Instruction ends 3rd year / Friday 25 June

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Medical Center

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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.

Thomas N. Oeltmann, Chair. Todd D. Giorgio, Todd R. Graham, Frederick R. Haselton, Adam List, Lawrence J. Marnett, Karl B. Schnelle, George H. Sweeney, Daulat Ram Tuliani. *Administrative/Ex officio:* Bob Wheaton, Maralie Exton, Don Hayes, Robert Hayes, Dale McClendon.

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, #2

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Health Sciences Committee, #3

Margaret G. Rush, Chair. Grant Wilkinson, Vice Chair. John Y. Fang, Candace Floyd, Gregory M. Gillette, Robert W. Green, Jr., Victoria L. Harris, Christa Hedstrom, Robert L. Janco, Mary Kay Washington.

Human Subjects Radiation Committee/Radioactive Drug Research Committee

Dominique Delbeke, Chair. Danny Anglin, Stephen N. Davis, Michael L. Freeman, Reza Habibian, Darryl Kaurin, James A. Patton, Ronald Price, Michael Stabin, Richard Zaner. *Administrative/Ex officio:* Gordon R. Bernard, Robin Ginn, Mark Penkhus, J. Lynn Randle.

Medical Archives Advisory Committee

The Medical Archives Advisory Committee recommends overall collecting and operating policies and appraisal standards for the archival program for the Medical Center. It recommends new programs and directions, recommends policies of accession and deaccession, and encourages departments to prospectively and retroactively contribute material to the archives.

Harris Riley, Chair. Mary Lou Donaldson, Robert Collins, William Darby, Randolph S. Jones, David Robertson, Mary Teloh.

Collection Advisory Forum

The Collection Advisory Forum advises the Eskind Biomedical Library about a wide range of collection development issues, including new ways to deliver information, strategies for upgrading the collection and access/ownership issues.

Scott Arnold, Erin Davidson, Clark Galbraith, Chris Jones, Terry Minnen, Barbara Petersen, Ann Richmond, Michael Smith, Nancy Wells.

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 three-fold mission—the education of health professionals, research in medical sciences, and patient care. This mission is carried out in five primary operating units—the School of Medicine, the School of Nursing, The Vanderbilt Clinic, Vanderbilt University Hospital, and Vanderbilt Children's Hospital, where patients receive exemplary care from physicians and nurses who are creative teachers and scholars.

Members of the faculty maintain proficiency and establish working relationships in the professional community by participating directly in patient care. Their practice encourages the free 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 standards for health care in the region.

Outstanding patient care and technological innovation have established Vanderbilt's reputation as a leading referral 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 interdisciplinary programs 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. Through scholarship and research 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 structure 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 percent of patients seen in the hospitals are from states other than Tennessee, with the majority coming from Kentucky, Alabama, and Mississippi.

The Monroe Carell, Jr. Children's Hospital at Vanderbilt

The new Children's Hospital, opened in February 2004, offers 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 research 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 emergency department rooms, 12 operating rooms, 10 observation rooms, and 3 triage rooms.

The Vanderbilt Psychiatric Hospital

Opened in 1985, this hospital provides care for children and adolescents with general psychiatric problems, chemical dependency, and psychosomatic and neuropsychiatric problems. The hospital is a regional 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 rehabilitation services to adults and children who have suffered strokes, head or spinal cord injuries, or have other orthopaedic or neurological diseases requiring rehabilitation. The hospital contains the Junior Chamber of Commerce Clinic Bowl Gymnasium, which is specially designed for handicapped sports, including basketball, volleyball, and indoor tennis. The Vanderbilt Center for Multiple Sclerosis is also housed in the hospital.

Rudolph A. Light Hall

Completed in 1977, Light Hall provides classroom 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 Research Buildings and the Veterans Administration Medical Center.

Ann and Roscoe Robinson Medical Research Building

Laboratories and academic space for pharmacology, biochemistry, and molecular physiology and biophysics are 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 shares an underground level with The Vanderbilt Clinic. The Vanderbilt Clinic and the Veterans Administration Medical Center are 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 Williams Preston 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 presence within the Vanderbilt 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-four research laboratories, four teaching laboratories, research support areas, offices, conference rooms, classrooms, and an 8,650-square-foot greenhouse for research and teaching. The unfinished ninth floor can be renovated later for an additional twelve research laboratories and support areas.

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

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 the Children's Hospital Outpatient Center, adult primary care practice suites, and academic and outpatient space for the Department of Ophthalmology and Visual Sciences.

Medical Center North

The 21-bed Newman Clinical Research 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 offices and research space for Medical School departments are in Medical Center North. The original portions of the building were completed in 1925. Since that time a number of connecting wings and buildings have been added.

Medical Center South

Medical Center South contains academic space for the Departments of Orthopaedics, Surgical Sciences, and Neurology and houses the School of Medicine Alumni and Development Office.

Vanderbilt Arthritis and Joint Replacement Center

This unique multidisciplinary resource for those with arthritis and rheumatic diseases is located adjacent to the Medical Center in the Village at Vanderbilt.

Vanderbilt Sports Medicine Center

Housed in McGugin Center, the Sports Medicine Center not only serves all University athletes, but is also the primary location for research, education, and treatment for all types of sports-related injuries.

Village at Vanderbilt

The Village contains outpatient facilities for psychiatry, orthodontics, and allergy. It also contains the Arthritis and Joint Replacement Center, the Voice and Balance Center, the Dialysis Center, and the Breast Center.

Oxford House

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

Mary Ragland Godchaux Hall

Vanderbilt University School of Nursing (VUSN) is located between the Jean and Alexander Heard Library and Medical Center North of VUH. Offices and classrooms are located in Mary Ragland Godchaux Hall and the Annex.

Godchaux Hall contains 67 administrative, faculty and staff offices, 4 class/conference rooms, 3 class laboratories, the Helene Fuld Instructional Media and Computer Center and the Joint Center for Nursing Research (JCNR). The research support areas of the JCNR include offices, conference space and computer facilities. The Godchaux Annex contains 3 large lecture halls, 4 seminar size classrooms, and a vending machine and commons area totaling 14,200 square feet. All classrooms either have permanently installed projection devices with computers and document cameras or can be accommodated with similar portable equipment.

The Helene Fuld Instructional Media Center (HFIMC). The HFIMC student computer labs are equipped with nineteen Compaq DeskPro 6450X (Pentium II, 450 MHz) computers, three Power Macintosh computers, three scanners and one laser printer. An additional eight units have recently been installed in a separate room to accommodate the growth of web-based testing in a quiet, secure environment. Students schedule in advance of the testing date in order to accommodate a range of needs.

A full range of software is available for document, slide and overhead preparation. Instructional software packages are also available. Faculty and students use the web-based program "Prometheus" for delivering on-line course content and communication resources. Experts in interactive educational design and computer instruction are available through the HFIMC and consist of three full-time staff members, a network manager and technician. Consultation and trouble-shooting activities include assistance with design and development of instructional strategies, development of specialized interactive computer-based programs, design and maintenance of databases, and design and development of instructional materials. In addition, the staff of the HFIMC maintain the SON web pages with assistance from designated departmental staff.

Over 200 personal computers are networked via Ethernet to the five production servers running Novell within the SON. This local area network is connected to the campus backbone that is currently being upgraded via a six-million-dollar capital project. The older FDDI will be phased out and replaced with a redundant ATM core with a one Gigabit capacity. As of December 20, 2001, the SON will have the one Gigabit capacity. The architecture includes two levels of firewall, encryption, and authentication for remote access via Internet service providers, virtual private networks, or ISDN and leased T1 lines (from remote clinics). Vanderbilt is a founding member of the University Corporation for Advanced Internet Development (UCAID) and Internet2. As such, the network will be maintained according to standards met by those collaborative projects.

Joint Center for Nursing Research (JCNR). Housed on the fifth floor of Godchaux Hall, the JCNR provides research consultation, support, and resources for faculty, students and nursing staff of the School of Nursing, Vanderbilt University Hospital (VUH), the Nashville Veterans 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, VAMC and STH, plus an administrative assistant, grants manager and full-time statistician provide assistance. They assist with grant proposal development, Institutional Review Board application, paper and poster preparation, data base management, instrument development, use of computers in literature searches, reference retrieval and manuscript preparation. The resources of the JCNR are available to all School of Nursing investigators.

Patricia Champion Frist Hall

In 1998 the new 25,000-square-foot Patricia Champion Frist building located adjacent to Godchaux Hall was completed. This building houses a multi-media classroom with installed networking for seventy-five students, two health assessment/multi purpose classrooms, a student lounge, a reception area, and fifty faculty offices. 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 promotion, 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), offers membership primarily to Vanderbilt faculty and staff members, but a limited number of memberships are available to the public.

The Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences

The Bill Wilkerson Center currently operates in five different buildings. The center, now under construction, will consolidate all clinical programs into the new facility, housing the Department of Hearing and Speech and the Department of Otolaryngology. The eighth floor will be devoted to research and will include an anechoic chamber, a reverberation chamber, and approximately twelve other state-of-the-art laboratories for research in speech, hearing, language science, and otolaryngology. The eight-story building will provide 300,000 square feet of space. It is scheduled to be completed by April 2005.

Medical Arts Building

Immediately adjacent to the hospital, the Medical Arts Building provides members of the clinical faculty with convenient office 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 respective 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 are available to all Vanderbilt faculty and staff members, students, and alumni/ae. Most materials are shelved in open stacks and are available to users through Acorn, the library's integrated, automated system. Acorn also provides 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-squarefoot facility, dedicated in April 1994. The construction of this award-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, research, and service missions of Vanderbilt University Medical Center. Library holdings include more than 212,000 print volumes, of which about 81,000 are monographs and about 131,000 are serials. The library receives 1,181 print serial titles and has a small collection of non-print material. Most materials are shelved in open stacks and are available to users through Acorn, the library's integrated, automated catalog. Acorn is Webbased 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 records 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 programs such as A.D.A.M.TM. In addition, EBL offers the Books@Ovid collection, including fifty-four titles and LWW Oncology, comprising fourteen electronic texts. The library subscribes to a wide variety of information sources from commercial providers. MDConsultTM, STAT!-Ref.TM, and Current Protocols Online are collections of full-text electronic resources. CRL Online (Clinical Reference Library™) is a comprehensive clinical drug information database. UpToDate™ is a database of clinical topic reviews based on clinical evidence. HealthGate Clinical Guidelines, a clinical consulting tool, provides evidence-based comprehensive practice guidelines along with corresponding sections written at the consumer level. OvidTM Technologies provides access to several databases, including MEDLINE, CINAHLTM (nursing and allied health), Ovid™ Evidence-Based Medicine Reviews, EMBASE Drugs & Pharmacology™, and HaPI™. The library also provides Web access to the Science Citation Index Expanded™, Journal Citation ReportsTM, and ScienceDirectTM. Further, EBL's connection to the World Wide Web provides global access to a wide range of internet-based

information resources which have been fully integrated into the Digital Library portal to provide 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 Training Room. The Training 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 classroom projector, which facilitates interactive instruction and demonstration.

The EBL provides staff and patrons with the computer equipment needed to support their information needs. Most public workstations in the library have the same desktop and functionality as other "shared" workstations throughout the Medical Center. All eighty-four publicly available computers in the library are 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 staff. Librarians help students, residents, and faculty stay abreast of the latest findings in the literature 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 Team are available to meet with faculty developing new courses or programs to assess the information needs of those endeavors and determine the most appropriate 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), staff expertise is available on the desktop through 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 electronic 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 reserve 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 Web site (www.mc.vanderbilt.edu/biolib/) has more details, including a succinct description of the library's collection, programs 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 affiliated with the 485-bed Veterans Administration Medical Center—a Vice Chancellor's Committee hospital containing 439 acute-care beds and outpatient facilities—and with the Howard Hughes Medical Institute, which occupies the eighth floor of Rudolph A. Light Hall.

Saint Thomas Hospital is closely affiliated with the educational programs of the Schools of Medicine and Nursing. The Medical Center also uses the facilities of Baptist Hospital, the Luton Community Mental Health Center, the Middle Tennessee Mental Health Institute, the Metro 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 Web. For more information, see www.vanderbilt.edu/its. For more information about computing at Vanderbilt, visit Vanderbilt'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 from 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 hundred plus and a working twentyfive member board, this donor society promotes both unrestricted 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 offered twenty-one full scholarships this past year.

Founders Circle

Cincinnati, Ohio

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

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

DR. EUGENE A. STEAD, JR. Bulluk, North Carolina MR. AND MRS. CAL TURNER, JR. Goodlettsville, Tennessee

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

MR. AND MRS. STEVE TURNER Nashville MR. AND MRS. DAVID K. WILSON Nashville MR. AND MRS. THOMAS L. YOUNT 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 MRS. HILLIARD TRAVIS Nashville MRS. ELTON YATES Pinehurst, North Carolina

The Julia Hereford Society

DR. AND MRS. JACK E. KEEFE III

Key Biscayne, Florida

MS. MARY E. KELLER

Nashville

The Julia Hereford Society is an association endorsed by Vanderbilt University on the recommendation of the Vanderbilt University Board of Trust. It is named to honor Julia Hereford, a 1936 graduate and former dean of the School of Nursing under whose guidance from 1949 to 1965 the graduate/professional program was begun. Throughout her life, Hereford worked tirelessly to strengthen both the Vanderbilt University School of Nursing and the nursing profession as a whole.

The purpose of the Julia Hereford Society is to recognize and honor individuals who have demonstrated interest in and support for the Nursing School, and through involvement build further understanding and commitment to the School's goals. This group strives to create and maintain a firm base of continuing unrestricted gift support and, through cultivation, identify those capable of large capital gifts. It also provides members with the opportunity to become better informed about the purpose, programs, and plans of the School and its mission of excellence in nursing education, nursing research, and nursing practice. The society plays a key role in helping to foster volunteer leadership development by providing opportunities for involvement in key roles within the society. Its membership consists of close to 200 and continues to grow each year, which makes it possible for students to receive the scholarships generously provided by the society.

Chair of the Julia Hereford Society — Julia Sawyers Triplett

Board of Directors

Mrs. Phyllis Alper

Ms. Corinne Barfield

Dr. and Mrs. Stanley Bernard

Dr. and Mrs. Frank Boehm

Mrs. Charlotte Covington Mrs. Martha Davidson

Mrs. Elizabeth Dayani

Mrs. Robin Diamond

Mrs. Frances Edwards

Mrs. Nancy Entrekin

Mrs. Carolyn Fruin

Mrs. Melissa Hauck

Mrs. Julia Johnson

Mrs. Joyce Laben

Mrs. Milah P. Lynn

Mrs. Linda Norman

Mrs. Nancy Peterson

Mr. and Mrs. Richard Ragsdale

Mrs. Nancy Travis

Dr. Kenneth Wallston

Stewards Circle

Lettie Pate Whitehead Foundation

Founders Circle

Mr. and Mrs. Thomas F. Frist, Jr.

The Godchaux Family

Nancy D. Travis

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: "We reaffirm our belief in the unique and special contributions that Vanderbilt can make toward meeting the nation's requirements for scholarly teaching, training, investigation, and service, and we reaffirm our conviction that to fulfill its inherited responsibilities, Vanderbilt must relentlessly pursue a lasting future and seek highest quality in its educational undertakings."

Today as Vanderbilt pursues its mission, the University more than fulfills the Commodore's hope. It is one of a few independent universities with both a quality undergraduate program and a full range of graduate and professional programs. It has a strong faculty of more than 2,000 full-time 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 from the Vanderbilt family and other private citizens.

The 330-acre campus is about one and one-half miles from the downtown business district of the city, combining the advantages of an urban location with a peaceful, park-like setting of broad 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 offer 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 accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award 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 provide the proper setting for academic endeavor.

Graduate Student Council

The Graduate Student Council, consisting of one student representative from each graduate program, 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 protects the compact with the University. The Graduate Student Council co-sponsors seminars on career planning, dissertation writing, financial matters, and other important topics and serves as a volunteer organization, collecting clothes, food, and toys for various community programs 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

The Office of Housing and Residential Education provides apartment-style housing for as many graduate students as possible. Applications for housing will be mailed to students upon request after March 1. Questions should be addressed to the Office of Housing and Residential Education, VU Station B #351677, 2301 Vanderbilt Place, Nashville, Tennessee 37235-1677. A \$200 deposit is required at the time of application. Returning residents of University housing will be permitted to renew their leases until May 1. Incoming students in graduate and professional schools will receive priority for the remaining available housing for the fall if their applications are received by May 1. Any returning student may apply for on-campus housing by filing an application with a \$200 deposit. After May 1, assignment is made on the basis of the date of application.

Apartments are leased for the entire academic year. Students who are assigned space on the campus are therefore committed for one year and should understand that only withdrawal from the University will cause the lease to be terminated.

Residential occupancy is subject to the terms and conditions of a lease executed by the occupants. Only full-time students at Vanderbilt are eligible for campus apartments. Apartments must be vacated within twenty-four hours if the occupants cease to be students.

University housing for graduate and professional students is available in the following facilities:

The Family Housing Complex, located at the eastern edge of campus on Eighteenth Avenue South, has air-conditioned, townhouse apartments with living room and kitchen downstairs and two bedrooms and bath upstairs. The apartments are designed for families with children.

The Garrison Apartment complex on Eighteenth Avenue South has airconditioned efficiency and one-bedroom units. Single as well as married

students are assigned here.

TeleVU, the residence hall cable television system, and ResNet, the residential data network, are available in all apartments in Family Housing and Garrison Apartments.

For additional information, consult the Housing Web site at www. vanderbilt.edu/ResEd.

Important Note: On-campus housing for graduate and professional students cannot be guaranteed beyond May 31, 2005. The University is developing plans to build new housing for undergraduates on the site of Family Housing and Garrison Apartments, the only buildings designated for graduate and professional students. Students assigned to these buildings will be notified by March 1, 2005, if they will be able to renew their leases. Alternative housing on campus for graduate and professional students will not be available when Family Housing and Garrison Apartments close. Students signing leases for the 2004/2005 academic year should be aware that they may have to vacate their apartments no later than May 31, 2005.

Off-Campus Housing

The Office of Housing and Residential Education maintains a listing of available off-campus accommodations in the Nashville area. The majority of rental property is close to the campus. Cost, furnishings, and conditions vary greatly. For best choices, students seeking off-campus housing should visit the office by early July for suggestions and guidance, or consult the Web site at https://apphost1.acis.vanderbilt.edu/off_campus_referral.

Change of Address

Students who change either their local or permanent mailing address 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 current mailing addresses. To change or update addresses, go to www.vanderbilt.edu/students.html, then click on Address Change under Student Services.

The CARD

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

ID cards are issued at the CARD Office, 184 Sarratt Student Center, Monday through Friday from 8:30 a.m. to 4:00 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 largest dining facility is Rand Dining Center behind the Sarratt Student Center, serving breakfast, lunch, and dinner, Monday through Friday. Six convenience stores on campus offer grab-and-go snacks, beverages, and groceries. Three of the stores have hot food and made-to-order items. All units accept the CARD, cash, or checks. For more information, visit the Web site at www.vanderbilt.edu/dining.

Obtaining Information about the University

Notice to current and prospective students: In compliance with applicable state and federal law, the following information about Vanderbilt University is available:

Institutional information about Vanderbilt University, including accreditation, academic programs, faculty, tuition, and other costs, is available in the catalogs of the Colleges and Schools on the Vanderbilt University Web site at www.vanderbilt.edu/catalogs. A paper copy of the Undergraduate Catalog may be obtained by writing the Vanderbilt University Bookstore, Rand Hall, 2300 Vanderbilt 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 Vanderbilt 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 Office of Student Financial Aid is located at 2309 West 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 Office 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 Vanderbilt 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 Vanderbilt University Police and Security Office, 2800 Vanderbilt Place, Nashville, TN 37212 or by calling

(615) 343-9750. For more information, see "Vanderbilt Police Department" in the following section of this catalog.

A copy of the annual *Equity in Athletics Disclosure Act Report* on the Vanderbilt University athletic program participation rates and financial support data may be obtained by writing the Vanderbilt University Office 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 respect 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 records 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" in the following section of this catalog.

Services to Students

Confidentiality of Student Records (Buckley Amendment)

Vanderbilt University is subject to the provisions of federal law known as the Family Educational Rights and Privacy Act (also referred 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 "directory information." Directory information may be made available to any person without the student's consent unless the student gives notice as provided 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, degrees and awards received, the most recent previous educational agency or institution attended by the student, and other similar information. Any new entering or currently enrolled student who does not wish disclosure of directory information should notify the University Registrar in writing. No element of directory information as defined above is released for students who request nondisclosure except in situations allowed by law. The request to withhold directory information will remain 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. To continue nondisclosure of directory information after a student ceases to be enrolled, 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 Procedure as outlined in the *Student Handbook*. If dissatisfied with the outcome of this procedure, a student may file a written complaint with the Family Policy and Regulations Office, U.S. Department of Education, Washington, D.C. 20202.

Questions about the application of the provisions 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 Directory* consist of the student's full name, school, academic classification, local phone number, local address, box number, and permanent address. The printed *Vanderbilt Directory* also contains these items unless the student blocks them using the update option of the *People Finder Directory*. Student listings in the *People Finder Directory* are available to the Vanderbilt community via logon ID and e-password. 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.

Directory information should be kept current. Students may report address changes via the Web 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) career assessment and counseling; 4) programs such as assertiveness training; marital communication; individual reading and study skills/test-taking techniques; body image, stress, and time management; group support programs for acquiring skills such as relaxation; 5) administration of national testing programs; 6) outreach and consultation; 7) special programming related to diversity issues; 8) campus speakers and educational programs.

Eligible persons may make appointments by visiting the Psychological and Counseling Center or by calling (615) 322-2571. Services are 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 Vanderbilt University develop and implement career plans. This is accomplished by offering a variety of services and educational programs that help students determine career options, learn job search skills, gain career-related experience, and connect with employers.

Services include individual career advising, career resource center, graduate and professional school services, career-related seminars and workshops, resume consultation, video interview training, internship information service, career fairs, campus interviews, credentials services offered through Interfolio, part-time and full-time job listings, and resume referrals. For detailed information about the Career Center, visit the Web site at www.vanderbilt.edu/career.

Student Health Center

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

The following primary care health services are provided to students registered in degree-seeking status without charge and without copayment: visits to staff physicians and nurse practitioners; personal and confidential counseling by mental health professionals; routine procedures; educational information and speakers for campus groups; and specialty clinics held at the SHC.

These SHC primary care services are 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 from 8:00 a.m. to 4:30 p.m., Monday through Friday, and 8:30 a.m. until noon on Saturday, except during scheduled breaks 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 care may go to the Emergency Department of Vanderbilt University Hospital. They will be charged 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 breaks). On-call Student Health professionals take calls after regular hours. Calls between 11:00 p.m. and 7:00 a.m. are handled by the Vanderbilt University Emergency Department triage staff. More information is available on the Web (www.vanderbilt.edu/student health).

Student Accident and Sickness Insurance Plan

All degree-seeking students registered for 4 or more 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 Office 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 offered through the University must notify the Office of Student Accounts of adequate coverage under another policy. A new student must complete an online selection/waiver process through the Office of Student Accounts (www.vanderbilt.edu/stuaccts) or the insurance company (www.kosterweb.com). This process must be completed by the designated payment deadline for students enrolling in the fall for annual coverage and for students who are newly enrolled for the spring term. The online selection/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) 322-4688. 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 purchase 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 Care Center operates as a service to University staff members, faculty members, and students. The program serves children from six weeks to five years of age. The center is accredited by the National Academy of Early Childhood Programs.

Services for Students with Disabilities

Vanderbilt is committed to the provisions 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 are 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 resource 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 directed to the Assistant Director for Disability Programs, Opportunity Development Center, VU Station B #351809, Nashville, Tennessee 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 charge of the Office of the Vice Chancellor for Administration. As one of Tennessee's larger law enforcement agencies, the Police Department provides comprehensive law enforcement and security services to all components of Vanderbilt University including the academic campus, Vanderbilt University Medical Center, and a variety of University-owned facilities throughout the Davidson County area. Non-commissioned and commissioned officers staff the department. Commissioned officers are empowered to make arrests as "Special Police Officers," through the authority of the Chief of Police of the Metropolitan 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 staff of more than 100 people, organized into two divisions: operations and administration. All of Vanderbilt's commissioned officers have completed officer 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 officers.

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

Vandy Vans—The Police Department administers the Vandy Vans escort system at Vanderbilt University. The main component of the system is a van service that provides vehicular escorts to designated locations on campus. The van service consists of two vans that operate from dusk to 2:00 a.m. (5:00 a.m. on Saturday and Sunday mornings).

One van makes a continuous loop around campus, taking approximately 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 secure waiting area, and student input. Signs, freestanding or located on existing structures, identify each stop. A walking escort can be requested 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 Vandy Vans escort system, walking escorts are available for students walking to and from any location on campus during the nighttime hours. Walking escorts are provided by VUPD officers. 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 areas. Using one of these phones will connect the caller directly 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 programs and services, call (615) 322-2558 or e-mail *crimeprevention.atwood@vanderbilt.edu*.

Additional information on security measures, programs and services, and crime statistics for the Vanderbilt community is available from 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 Disclosure of Campus Security Policy and Campus Crime Statistics Act and the Tennessee College and University Security Information Act, Vanderbilt University will provide 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 Vanderbilt 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 programming on the African world experience for the Vanderbilt community. It also promotes the retention of the University's African-descended students. Dedicated in 1984, the center is named for the first African-descended student admitted to Vanderbilt (in 1953), Bishop Joseph Johnson (B.D., '54; Ph.D., '58).

The center represents the University's efforts in promoting diversity and fostering understanding of the values and cultural heritages of people of

African origin worldwide. In this respect, the center also serves as a clearinghouse for information relative to African and African-descended life and culture. Symposia, lectures, music, art exhibitions, audiovisual materials, and publications on the universal black experience provide a broad spectrum of activities for the University and the general public. Programs are publicized in the University calendar and a quarterly newsletter, *News from the House*. The Black Student Alliance (BSA) and the Cultural Center's Advisory Board assist in developing the center's programs.

The center is a system of support to African-descended students but is open to all students for small meetings and gatherings throughout 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 regarding immigration, cross-cultural, and personal matters. ISSS supports an environment conducive to international education and intercultural awareness via educational, social, and cross-cultural programs.

ISSS provides immigration advising and services, including the processing of immigration paperwork, to more than 1,500 international students and scholars. The office 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 accordance with the Department of Homeland Security (Bureau of Citizenship and Immigration Services) and the Department of State. ISSS coordinates 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 coordinates First Friends, which matches international students with Americans both on and off campus. The weekly World on Wednesdays presentations inform, broaden perspectives, and facilitate cross-cultural understanding through 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 address a variety of international student needs and interests. These programs include Vanderbilt 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 provide 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 Margaret 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 are publicized on the Web at www. vanderbilt.edu/WomensCenter and in the monthly newsletter Women's VU, which is distributed without charge to campus addresses on request. A student group that works closely with the Women'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 circulate for four weeks. Copy facilities are available. The Women's Center is also home to Project Safe (PS), a coordinated program of education about, prevention of, and response to violence against women on campus.

Schulman Center for Jewish Life

The 10,000-square-foot Ben Schulman Center for Jewish Life was formally 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 offers 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 religious reflection and avenues for service, worship, and action. There are many opportunities to clarify one's values, examine personal faith, and develop a sense of social responsibility.

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, Presbyterian, Reformed University Fellowship, Roman Catholic, and United Methodist chaplains work with individuals and student groups. Provisions for worship are 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, provides a variety of facilities, programs, and activities. The center houses a cinema; an art gallery; art studios and darkrooms for classes and individual projects; work and office spaces for student organizations; comfortable reading and study lounges fully wired for Internet access; large and small meeting rooms; and large, open commons and courtyard areas for receptions or informal gathering. The center also houses the Pub (Overcup Oak) restaurant and the Stonehenge Cafe, and leads directly to Rand Dining Room, the Varsity Market, and the Bookstore. The Vanderbilt Program Board plans concerts, film screenings, classes, speakers, receptions, gallery showings, and many other events throughout the campus. The center's Welcome Desk serves as a campus information center and is a TicketmasterTM 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 Office of Greek Life, the CARD Office, and Vanderbilt Student Communications (including the student newspaper, radio station, and yearbook).

Recreation and Sports

Graduate and professional students are encouraged to participate in the many physical activity classes, intramurals, and sport clubs offered by the University. All students pay a mandatory recreation fee which supports facilities, fields, and programs (see the chapter on Financial Information). Spouses must also pay a fee to use the facilities.

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

The University recreation facilities include gymnasiums, tracks, and four softball diamonds. The four lighted multipurpose playing fields are irrigated and maintained to assure prime field conditions.

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



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School of Medicine



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

SAUNDRETT G. ARRINDELL, M.D., Assistant Dean for Diversity in Medical Education CORNELIA R. GRAVES, M.D., Assistant Dean for Diversity in Medical Education 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

BENITA J. BOBBITT. Assistant to the Dean

Executive Faculty

Steven G. Gabbe, Chair. Jeffrey R. Balser, R. Daniel Beauchamp, Fred H. Bess, George C. Bolian, Alan D. Cherrington, Stephen S. Entman, Daryl K. Granner, Dennis Hallahan, Heidi Elizabeth Hamm, Jacek Hawiger, David R. Head, Harry R. Jacobson, Lynn M. Matrisian, Robert L. MacDonald, Randolph A. Miller, Harold Moses, Jr., Eric G. Neilson, Robert H. Ossoff, Martin P. Sandler, Samuel A. Santoro, William Schaffner, Corey M. Slovis, 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., Lee E. Limbird, Jason D. Morrow, Linda D. Norman, Mark A. Magnuson, Bonnie M. Miller, Donald E. Moore, Jr., 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 are 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 proficiency into effective humanitarian service.

The medical school's major strength lies in the quality of its students and faculty. The school provides a supportive, positive environment in which students are treated individually in their pursuit of excellence in medical careers. The student body is diverse, with students from 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 strong research programs, has a national and international reputation for excellence in the biomedical sciences and clinical care. House staff officers who have teaching duties consistently receive commendation for their contribution to the educational program.

The medical school curriculum contains within its core and elective components the full spectrum of medicine. The curriculum provides sufficient structure to afford guidance, with flexibility to encourage initiative. An extensive elective program during the first two years gives students the opportunity to pursue individual interests. The curriculum provides traditional experiences in the various disciplines of medicine and offers 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, approximately a hundred students are chosen for the first-year class. A hallmark of the School of Medicine admissions process is the personal attention to details by the administrative staff 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 provides the best learning environment for all students.

Medical school is but the beginning of a continuing process. Following graduation from medical school, residency provides a period of further formal training in specialized areas 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:

- 1. To develop outstanding clinicians, scientists, and teachers in an environment that stimulates learning and discovery and cultivates empathy and compassion.
- 2. 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.
- 4. 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 provide students with the attitudes and background, based on sound biomedical science, to continue their education lifelong. At Vanderbilt, every medical student has access to examples of the highest standards of biomedical investigation and clinical practice. The desired 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 standards. The clinical facility also serves as a laboratory for clinical research. 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 responsibility for community service in its fullest context.

Research

In addition to teaching, members of the medical school faculty have a second and complementary responsibility 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 care, and problems related to the health care system itself. Vanderbilt is recognized as one of the leaders in research 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, requires all students to conduct themselves with honor in all aspects of their lives as physicians-in-training. By demanding great responsibility, the Honor System fosters an environment of freedom and trust that benefits the entire Medical School. In signing this statement upon enrollment, 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 profession, students pledge to conduct themselves with honor and integrity at all times. Both the Promotions Committees and Honor Council serve to protect 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 regarding reported violations of the code; and to decide the nature of penalties deemed appropriate for such violations. Decisions reached by the Honor Council do not preclude the discussion of reported violations by the Promotions Committee, as the Committee may examine these incidents in the larger context of a student's general performance.

The Honor Code

All students pledge to conduct themselves honorably, professionally, and respectfully in all realms 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 receives unauthorized aid nor leaves unreported any knowledge of such aid given or received by any other student. This pledge applies to all tests, themes, term papers, examinations or any other activities required 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 are expected to abide by the Honor Code during their studies at Vanderbilt University School of Medicine (VUSM). Any student taking a course in the School of Medicine, regardless 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

- 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.
- 2. 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.
- 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.

- 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

- 1. 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

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

- 2. 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 program that can be clustered into the following categories: (1) knowledge, (2) skills in accessing information, (3) skills for the diagnosis and management of patient problems, (4) clinical reasoning skills, (5) skills in communication and interpersonal relations, (6) professional development and (7) professional 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 throughout all stages of professional training. In the category of professional 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 without regard to performance in other categories. Such students are subject to dismissal. If some concern is noted in more than one course and persists after counseling, this student will be automatically reviewed by the promotions committee and will be subject to dismissal.

A grade of Incomplete is to be used only to reflect 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 recommend letter grades. The evaluation provided by faculty and house staff will provide (1) assessments of the frequency 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 residency 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 requires 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 review by the Promotions Committee. Promotion Committees may require 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 review by the Promotion Committee. The criteria for professional values described above are also applicable in the clinical years.

Things Every Student Should Know about Electives

The student should use the elective program to increase knowledge in fields of particular interest or to correct deficiencies in overall medical education. Therefore, the number and content of electives will properly 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 recommended 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 desired flexibility, there must be a high level of student responsibility 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 lifelong interests and has been a determinant of career 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 are 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 approve a program of electives. Electives may be chosen from courses offered at Vanderbilt Medical School or by independent arrangement for research 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 credit whatsoever, nor will it be shown on the student's transcript. However, students who receive approval to audit coursework from 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 credit. Exceptions to this rule are made only when students are in special programs, 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 are available for consultation and advice.

History of the School

The first diplomas issued by Vanderbilt University were to sixty-one Doctors of Medicine in February 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 Board of Trust. In the early days, the School of Medicine was owned and operated as a private property of the practicing physicians who composed the faculty and received the fees paid by students—a system typical of medical education in the United States at the time. Vanderbilt made no financial contribution to the school's support and exercised no control over admission requirements, the curriculum, or standards for graduation. After reorganization under the Vanderbilt Board in 1895, admission requirements 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 from 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 Ford Foundation in recent years, have contributed altogether more 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 reorganization were realized in 1925 when the school moved from the old South Campus across town to the main campus, thus integrating instruction in the medical sciences with the rest 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 electronic 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, provides 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 Research and the positron emission tomography (PET) scanner.

Objectives of the Program

- 1. Knowledge of the normal structure 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, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) of maladies and the ways in which they operate on the body (pathogenesis).
- 4. Knowledge of the altered 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 organ system specific examination, including a mental status examination.
- 8. Knowledge of the most frequent 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 construct appropriate diagnostic and therapeutic management strategies for patients with common conditions.
- 13. The ability to recognize and treat patients with life threatening 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 approaches useful in reducing 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 retrieve (from electronic databases and other resources), manage, and utilize biomedical information for solving problems 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 approaches to the organization, financing, and delivery of health care.
- 21. Knowledge of the principles of medical research and critical evaluation of its significance.
- 22. Compassionate treatment of all patients, respect 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 provide care to patients who are unable to pay and to advocate for access to health care 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 respect for, the roles of other health care 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 threats 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 professional area(s) of individual interest.

Admission



Requirements for Entrance

Vanderbilt University School of Medicine seeks students with a strong 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 predict success in preclinical course work.

Applicants must present evidence of having satisfactorily completed the minimum requirements listed below. 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. Courses should deal with the structure and function of living organisms at the cellular and molecular level.

Chemistry. A minimum of 16 semester hours, 8 in general inorganic chemistry, including laboratory, and 8 in organic chemistry, covering aliphatic and aromatic compounds and including laboratory.

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

English and Composition. Six semester hours.

Physics. Eight semester hours, including laboratory. Quantitative laboratory work should be emphasized.

Advanced placement credits and pass/fail credits are not acceptable in lieu of science requirements. Advanced courses in the same discipline may be substituted for the traditional requirements 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 ordinarily 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.

One of the dual degree programs, the combined M.D./Ph.D. program is designed to develop investigators and teachers in the clinical and basic medical sciences. Students in the program have the opportunity to study a basic biomedical science in depth and to do research in some aspect of that subject while concurrently pursuing studies leading to the medical degree. This training develops the skills and techniques necessary for an experimental approach to problems in basic and clinical medical sciences. The program is designed for students aspiring toward careers in academic medicine and medical research.

The M.D./Ph.D. program fully meets the Vanderbilt University School of Medicine requirements for the Doctor of Medicine degree and Vanderbilt University Graduate School requirements for the Doctor of Philosophy degree. The combined degree program usually requires seven calendar years beyond the baccalaureate for completion. Although some saving of time is built into the program, there is no implication that the combined degree program circumvents, alters, or dilutes requirements for either the M.D. or the Ph.D. The intent is to profit optimally from the strengths of each school.

Admission to the Program

Those applying to the M.D./Ph.D. program should indicate such on the AMCAS application to Vanderbilt University School of Medicine and complete the Medical Scientist Training Program secondary application to Vanderbilt University School of Medicine. Applications to the program are reviewed by the Faculty Advisory Committee for the Medical Scientist Training Program Committee. Applicants must be accepted into Vanderbilt University School of Medicine and into Vanderbilt University Graduate School upon recommendation of the Medical Scientist Training Program Committee. In exceptional circumstances, late applications to the program will be received from applicants who have already been accepted into the medical school. Students who have completed no more than two years in medical school may also apply for admission to the combined degree program.

Upon enrollment in the M.D./Ph.D. program, students are assigned to faculty and student advisers. During their first semester, they become familiar with Ph.D. study and research activities of the affiliated graduate programs: Biochemistry, Bioinformatics, Biological Sciences, Biomedical Engineering, Cancer Biology, Cell and Developmental Biology, Microbiology and Immunology, Molecular Physiology and Biophysics, Neuroscience, Pathology, and Pharmacology.

Following the orientation program, but before the end of their second year in medical school, M.D./Ph.D. students must select and be accepted into the graduate program of an affiliated department or program. M.D./Ph.D. students work closely with their assigned faculty and student advisers in all matters related to enrollment, registration, course selection, and scheduling. The usual course of study is divided into several phases.

Recommendations for Entrance

A broad experience in non-science courses is encouraged, especially experience beyond the introductory course level in areas 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 group of academically exceptional students whose attributes and accomplishments suggest that they will be future leaders and/or scholars in medicine. To accomplish this goal, VUSM provides a review of each candidate by multiple members of the faculty who are 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 background, 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 are acceptable, but will delay review of the application.

Application Procedure for Admission

As a convenience to the applicant, Vanderbilt University School of Medicine participates in the American Medical College Application Service. All application materials may be obtained on-line through AMCAS by going to http://aamc.org. AMCAS applications are screened by four faculty screening committees in order 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 received 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 preceding an anticipated fall semester enrollment date. Vanderbilt participates in the Early Decision Program through the American Medical College Application Service.

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 program 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. students must complete 72 hours of graduate work for credit, of which a minimum of 24 hours is required 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 present 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 preceptor to supervise their dissertation research 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 toward 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 ensure appropriate assignment of credits. Students must complete all course work and the research, 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 program, the student agrees to promote primary effort 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 officers 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 sources for support available to the student include the following:

Vanderbilt Medical Scientist Scholarship Programs. Currently there are several sources of funding available in support of the scholarship awards, a privately endowed program and a special allocation of funds by the School of Medicine. These programs pay tuition and fees and provide 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 awarded to Vanderbilt 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 related expenses. As with all federal funding, support is guaranteed for only one year at a time, since all federal funds are 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 research funds. Interested students should request 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 Training Program who do not receive financial support from any of the above sources may remain in the joint program 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 features of a joint M.D./J.D. 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 Law School. It offers an excellent opportunity to enhance the collaboration between these two programs.

Students must apply to each program 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 three years in the medical school. Law students who apply to the medical school during their first year in the law program 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 ordinarily 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 program separately and be accepted by both programs to pursue the joint degrees. 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 three years in the medical school.

Joint degree students will complete both degrees in five years, saving one year in school, since ordinarily 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 Vanderbilt University School of Medicine and Vanderbilt's Biomedical Informatics Department. It offers an excellent opportunity to enhance the collaboration between these two programs.

Students will apply to each program separately and must 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 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 ordinarily 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 features of joint degrees 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 degree 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 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. 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 op-

portunity 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. degree ordinarily takes four years and the Master of Divinity takes three. 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 credit 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 degree program, with its potential to attract outstanding students to both schools, will benefit both the Vanderbilt University School of Medicine and Vanderbilt's Computer Science Program in the School of Engineering. It offers an excellent opportunity to enhance the collaboration between these two schools.

Students must apply to each program separately and be accepted by both programs to pursue the joint degrees. Students must meet requirements 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 degrees in five years, saving one year in school, since medical school ordinarily 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. degrees in five years. Such a program, 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 career in research or clinical practice, there 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. programs 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 three years in the School of Medicine. Peabody students may apply for admission to the M.D. program during their first year in the master's program.

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

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

This describes the features 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 program separately and be accepted by both programs to pursue the joint degree. 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. 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 restricted 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 degrees in five years, saving one year in school, since medical school ordinarily takes four years and the M.P.H. program two years.

M.D./M.B.A. Program

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

Students must apply to each program 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 three years in the medical school. Owen students who apply to the medical school during their first year in the M.B.A. program may also be considered for the joint degree program.

Joint degree students will complete both degrees in five years, saving one year in school, since medical school ordinarily takes four years and the Owen program two years. The first three 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 program provides direct, mentored experience in clinical investigation and, through 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 treatment 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 Vanderbilt faculty members may also apply to the program with the consent of their department chair. Post-doctoral Ph.D.s who anticipate a career 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 research project. The research 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 program offered by the School of Medicine for physicians and other doctoral-level health care professionals. The primary objective of the program 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 future career in epidemiologic, clinical, or health services research 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 Web 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 entry-level 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 Vanderbilt 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 improvement of hearing health care. The program will pursue excellence by recruiting the very best students, exposing these students to nationally recognized faculty, and offering 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 refers to a hearing health care professional involved in the prevention, identification, and evaluation of hearing disorders, the selection and evaluation of amplification, and the habilitation/rehabilitation of individuals with hearing impairment.

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

Master of Laboratory Science

The Master of Laboratory Science program is a two-year program 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 residency at VUMC or Meharry in a research laboratory, and who are 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 research personnel who will continue to work in an academic research environment; to foster the professional growth and increase the intellectual investment of the research assistant in the laboratory; and to improve the career growth potentials of our brightest and most qualified young researchers 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 are concerned with three primary areas of activity: clinical service and consultation, research and development, and teaching. Clinically, medical physicists are called upon to contribute scientific advice and resources to solve physical problems arising in radiological medical physics. Medical physics research typically involves the development of new instrumentation and technology, the development of new medical diagnostic and therapeutic procedures, 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 throughout 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, resident physicians, medical students, and hospital technical staff.

Vanderbilt University offers the Master of Science degree in Medical Physics with specialty in Radiological Medical Physics This interdisciplinary program is administered through the Departments of Radiation Oncology and Radiology and Radiological Sciences in the School of Medicine, and involves faculty and courses from 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 con-

sidered 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 received in the Office of Student Records 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 credit as Vanderbilt medical students, they are 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 regulations of the University as well as to any special regulations 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 required 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 approval of the Associate Dean for Medical Students or a designee.

All electives are courses for credit. Electives in the first and second years are graded as Pass or Fail; electives and selectives in the third and fourth years are graded on the same basis as required courses. The format for electives includes lecture 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 preclinical years is organized on a semester basis. Students are encouraged to participate in a summer research or community service experience.

The curriculum is under constant review by both faculty and students, and is subject to timely change as recommended 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 drug abuse, human sexuality, death and dying, cancer biology, emergency medical services, legal medicine, medicine in the community, medical ethics, introduction 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 providing an introduction to history taking and the physical examination through a series of lectures, demonstrations, small group 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, surgery, 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 surgery and two of the eight-week clerkships (obstetrics/gynecology, pediatrics, or psychiatry/neurology) no later than June of their third year. Ordinarily, all required core clerkships are completed by the end of August of the fourth year, but students may defer the final core clerkship to a later time in order to pursue research 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 areas. 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 care, 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			Dia ala ara			
9–10	Biochem	Gross	Biochem	Gross	Biochem	
10–11		Anatomy	Psych	Anatomy	Biochem	
11–12	Ecology		,			
12–1						
1–2						
2–3	IPC *Plenary	Gross	Emphasis	Gross	Gross	
3–4	Sessions	Anatomy	Program	Anatomy	Anatomy	
4–5						

FIRST YEAR, FALL SEMESTER. SECOND HALF						
HOURS	MON	TUES	WED	THURS	FRI	SAT
8–9			Biochem			
9–10	Biochem	Gross	Biodrioiii	Gross	Biochem	
10–11		Anatomy	Psych	Anatomy	Biodrioini	
11–12	Ecology		-			
12–1						
1–2						
2–3	IPC	Gross	Emphasis	Gross	Electives	
3–4	*Plenary Sessions	Anatomy	Program	Anatomy		
4–5						

^{*}Plenary sessions—required attendance of Introduction to the Patient Clinical Professionalsim

FIRST YEAR, SPRING SEMESTER, 2005						
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	ыоюду	
1–2					Physiology	
2–3	IPC	Emphasis	Electives	Emphasis		
3–4	*Plenary Sessions	Program	2.334700	Program	Electives	
4–5	Sessions					

^{*}Plenary sessions—required attendance of Introduction to the Patient Clinical Professionalsim

SECOND YEAR, FALL SEMESTER, 2004						
HOURS	MON	TUES	WED	THURS	FRI	SAT
8–9					Radiology	
9–10	Pathology	Neuro- Science	l Pathology I	Neuro- Science	Pathology	
10–11	0,					
11–12						
12–1						
1–2						
2–3	Electives	Pathology	Electives	Psychiatry	Electives	
3–4	210011100		210011100			
4–5		C.P.C.				

SECOND YEAR, SPRING SEMESTER, Weeks 1 through 8						
HOURS	MON	TUES	WED	THURS	FRI	SAT
8–9	Dharm		Dharm	Pharm	Pharm	
9–10	Pharm	Pharm Physical Diagnosis Lab Diagnosis	Pharm			
10–11	Lab Diag.		Lab	Lab	Lab	
11–12	Nutrition		Diagnosis	Diagnosis		
12–1						
1–2						
2–3	Physical	Electives &	Electives &	Physical Diagnosis	Electives & Independent Study	
3–4	Diagnosis	Independent Study	Independent Study Independent Study			
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		Physical Diagnosis				
10–11	Prev. Med.		Diagnosis	Genetics	Preventive	Preventive
11–12	Nutrition			Medicine	Medicine	
12–1						
1–2						
2–3	Physical	Electives	Electives	Physical Diagnosis	Electives	
3–4	Diagnosis					
4–5						

SECOND YEAR, SPRING SEMESTER, Weeks 14 through 18

HOURS	MON	TUES	WED	THURS	FRI	SAT
8–9		Dle e vee	Pharm	Pharm		
9–10	Pharm	Physical	Pharm	THAITH	THAIH	
10–11	Prev. Med.	Diagnosis	Genetics	Preventive	Preventive	
11–12	Genetics		Genetics	Medicine	Medicine	
1–2						
2–3	Physical	Electives	Electives	Physical	Electives	
3–4	Diagnosis			Diagnosis		
4–5			24			

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

Medical Group

- 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 third 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 are eligible to apply. The deadline for applying is March 1.

Fourth Year Requirements

1. Eight academic units of four weeks each are 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 Vanderbilt and include (one) inpatient unit from the Medical group and (one) from the Surgical group listed below (Section #2). In addition all students must complete (one) unit in Primary Care Medicine (Primary Care Medicine, 520-5100) and (one) unit in Emergency Medicine (Emergency Service, VU 502-5950). Students may take selective experiences as one of the regular electives on a space available basis.

Surgical Group

517-5850 Trauma 517-5970 Otolaryngology 517-5980 VU-Ped. Urology

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

- 2. *Inpatient Clerkship Selectives* (two units)
- One unit from the Medical group and one unit from the Surgical 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 remainder 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 credit away from Vanderbilt require an approved proposal from the student. "Blue Petition" forms for this purpose are available from the Office of Student Records, Room 203 Light Hall. The student is also responsible for attending to any formalities required by the institution being visited.

4. An academic unit composed of a combination of clinics may be taken for elective credit. 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, Nephrology, 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 signature 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 enrollment 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	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)
	504-5950	Seminar in Clinical Electrocardiography and Electrophysiology *(Requires Consent of Instructor)
	504-5980	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	Clerkship in Child Behavior & Development Genetics Clerkship *(Requires Interview with Sponsor)
	511-5920	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 programs for graduate students in the preclinical sciences, for postdoctoral interns and residents, and for postdoctoral research trainees.

Residency Training

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

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

Vanderbilt University Hospital is a referral center and consequently has a patient population with complex medical and surgical problems. The Veterans Administration Hospital, adjacent to the Vanderbilt 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 programs must have completed an approved 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 Vanderbilt University Medical Center recognize a major commitment to the continuing education of physicians and others in the health professions. The School of Medicine views medical education as a continuum initiated in the undergraduate phase, progressing through graduate medical education, and maturing in ongoing continuing medical education. The professional life of the physician and all health professionals 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 offers a broad spectrum of courses throughout the year to meet the needs of physicians in practice and other health professionals. Inquiries should be directed to the Division of Continuing Medical Education.

Academic Policies

ANDERBILT students are 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 respect for the Honor System. All work submitted as a part of course requirements is presumed to be the product of the student submitting it unless credit is given by the student in the manner prescribed by the course instructor. Cheating, plagiarizing, or otherwise falsifying results of study are specifically prohibited under the Honor System. The system applies not only to examinations but also to written work and computer programs 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 degree must be mature and of good moral character. They must have spent at least four years of study or its equivalent as matriculated medical students at an accredited 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 requirements will be recommended for the degree 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 interest 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 Vanderbilt 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 Students¹

Statement of Standards

In practice, physicians are held to high standards of professionalism and patient care. The medical learning environment 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 staff) 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 expressed in many ways but all interactions shall include honesty, fairness, and evenhanded treatment. Behavior which is inimical to the development of mutual respect 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 respect between students and teacher and between fellow students. For purposes of these Comments, the term "person" shall refer to a student in interactions between 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 rewards because of a student's gender;
 - b. 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 inappropriate sexual or sexist conduct directed towards any person;
- e. Displaying in an unreasonable and inappropriate 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 rewards 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 thereby reducing educational opportunities available to the nonfavored student(s); or
- f. Grading or evaluating a student based upon any attribute of a student 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 Standards of Behavior ("Standards") may be reported in accordance with the following procedure. Violations of these Standards may subject the offender 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 offender. In addition, the reporting individual may consult informally with any member of the Standards Committee for information and assistance. Any such informal consultation will be confidential if so requested. The only written record of any such confidential consultation shall consist of a confidential memorandum retained in the files of the Chair of the Standards Committee.

To make a formal report of an alleged violation of these Standards, a written description of the alleged violation, signed by the individual making the report, shall be delivered to any individual on the Standards Com-The Standards Committee shall conduct a preliminary investigation, giving the reporting individual, the alleged offender and any other persons as the Standards Committee shall determine a fair opportunity to express their views on the matter. Further, the Standards Committee shall make, in accordance with commonly held standards of conduct, any necessary preliminary 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 preliminary findings to the individual making the report, to the alleged offender, 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 Vanderbilt University Faculty Manual, Student Handbook, or Staff Manual, as applicable.

Alternatively, a student alleging sexual harassment or unlawful discrimination may make a complaint to Vanderbilt's Opportunity Development Center in accordance with the procedure 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 are 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 effort should be made to resolve the problem fairly and promptly at this level.

If the student cannot resolve the problem through discussion with the course director, he or she should bring the problem, 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 recommendation 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 representatives of the departments responsible 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 responsibility 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 promotion from the third to the fourth year are made. Decisions on the progress 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 recommend for promotion those students who have demonstrated appropriate personal behavior and the knowledge, understanding, 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 environment conducive to successful achievement. Occasionally, however, the outcome is unsuccessful. The Promotion 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 undergo special review by their Promotion Committee. In light of the student's complete academic record, the committee may recommend promotion, promotion on probation, repetition of all or part of the academic year, or withdrawal from school. Ordinarily, a student with marginal performances in required preclinical courses accounting for more than half of the scheduled required 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 progress delayed in order to complete remedial work or to withdraw from school.

Students who fail in a course, whether required or elective, will be required to remedy the failure before being permitted to enter the courses of the next academic year. Credit may be given on the basis of re-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 re-examination or course repetition may be required to withdraw from the school.

Promotion Committees will ordinarily 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 from school unless there are mitigating circumstances approved by the Dean. Students on probation may be withdrawn from school if their academic performance continues at a marginal level, even though there 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 regulate 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 responsibilities at the medical school. If the outside obligation is considered prejudicial, the student may be required 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 approved studies, recuperation from illness, or other special circumstances. Should it be necessary for a student to be absent for a period of more than one calendar year, the student must make formal reapplication and be reconsidered by the Admissions Committee, unless special approval 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 prescribed 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 recorded 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.

THE 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.

THE 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.

THE 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.

THE BETTY AND JACK 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.

THE 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.

THE 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.

THE 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.

THE 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.

THE 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.

THE ROBERT AND RACHEL BUCHANAN / A. H. AND LUCILLE LANCASTER CHAIR IN DERMATOLOGY. 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.

THE 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.

THE 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.

THE 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.

THE ANN AND MONROE CARELL FAMILY CHAIR IN THE VANDERBILT CHILDREN'S HOS-PITAL. 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.

THE MARK COLLIE CHAIR IN DIABETES RESEARCH. 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.

THE 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.

THE 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.

THE 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.

THE 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.

THE THOMAS F. FRIST 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.

THE 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.

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 CHAIR. 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.

THE GEORGE WEEKS HALE PROFESSORSHIP IN 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.

THE 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.

THE 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.

THE 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 ALLERGY, PULMONARY, AND CRITICAL CARE 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 ASSOCIATE 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.

THE 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 ASSOCIATE 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.

THE ANN LIGHT CHAIR IN 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.

THE 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.

THE 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

THE 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.

THE 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.

THE 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 PROGRAM. 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.

THE 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.

THE 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.

THE RALPH AND LULU OWEN CHAIR IN PULMONARY DISEASES. This chair was established in 1994 through a bequest from the estate of Mrs. Owen, who, with her late husband, was a trustee and life-long supporter of Vanderbilt University and its Medical Center.

THE 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.

THE LEO AND MARGARET MILNE RECORD CHAIR IN SURGERY. This chair was established through the generosity of Dr. Record, a prominent Chattanooga physician, and his wife.

THE 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.

THE 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.

THE PAUL W. SANGER CHAIR IN 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.

THE JOHN L. SAWYERS CHAIR IN THE SECTION OF 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.

THE 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.

THE 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.

THE RUTH KING SCOVILLE CHAIR IN MEDICINE. 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.

THE 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.

THE 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.

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

THE 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.

THE 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.

THE 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.

THE 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.

THE 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.

THE 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.

THE MARGARET AND GEORGE THORNE PROFESSORSHIP IN PATHOLOGY. This professorship is one of several within the Medical Center designed to recruit and retain outstanding faculty.

THE 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.

THE NATALIE OVERALL WARREN DISTINGUISHED 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.

THE 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.

THE 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.

THE ALBERT AND BERNARD WERTHAN CHAIR IN 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.

THE THOMAS L. AND JANE WILKERSON YOUNT CHAIR IN AUDIOLOGY. This chair was established by Thomas and Jane Yount in memory of her father, Wesley Wilkerson, who founded the Bill Wilkerson Hearing and Speech Center. This chair enhances the three-fold mission of the Bill Wilkerson Center: research, education, and service.

LESTER AND SARA JAYNE WILLIAMS CHAIR IN 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.

THE 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 SCIENCES. 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 SCIENCES. 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 state-of-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 second-year 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 lecture-ship 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 HYPERTENSION. 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 Lecture-ship 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



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 third year. The society has for its purpose the development of high standards of personal conduct and scholarship and the encouragement of medical research. 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 Vanderbilt 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 AWARD. This award is presented to a woman medical student who is an honor student and leads her class in academic distinction.

THE JANET M. GLASGOW MEMORIAL ACHIEVEMENT CITATION. This citation is presented in recognition of the accomplishments of women medical students 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 established to honor the memory of David Richard Freedy, a member of the Class of 1993. It is given to the student who has demonstrated leadership, courage, and perseverance in the face of adversity.

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 a professor and the 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 a professor and the 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 graduating students who have demonstrated high academic achievement, superior clinical competence, and the qualities of dedication and professionalism that characterize the good physician.

THE RUDOLPH KAMPMEIER PRIZE IN MEDICINE. The Kampmeier Prize 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 clerkship 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 is given to the fourth-year medical student recognized 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 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 2004/2005 is \$31,600. The annual expense of a first-year student in the School of Medicine is estimated to be \$47,070.

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

2004/2005

Application fee (to accompany secondary application)	\$ 50
Student activities and recreation fee (1st and 2nd years)	294
Student activities and recreation fee (3rd and 4th years)	347
Microscope usage fee per year (1st and 2nd years)	100
Student health insurance	1,511
Professional liability insurance	329
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 requirement. 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 required to pay the full tuition as indicated above. One half of tuition, total fees, and other University charges are due and payable by 17 August. Second-semester tuition and other University charges are due and payable by 5 January.

Refund of Tuition

Students who withdraw officially or who are dismissed from the University for any reason 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	40%

No refund after the 10th full week.

Late Payment of Fees

Charges not paid by 17 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 remains unpaid after 17 August (\$5 minimum). An additional monthly late payment fee will be assessed unless payment is received in full on or before the end of each month, and late payment fees will continue for each month thereafter 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 register for any semester if they have outstanding unpaid balances for any previous semester. No transcript, official or unofficial, 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 provide 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 provided by the University Office of International Student and Scholar Services.

Microscopes, Books, and Equipment

First-year and second-year students are 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 acquire 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 recreation fees entitle students to use the facilities of Sarratt Student Center and the Student Recreation 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 covered with professional liability 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 are available at the University student insurance office, 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 elsewhere as a "visiting student," providing that (1) the clerkship or other educational experience has prior approval from the School of Medicine as course work for credit, and (2) the activities within this experience are 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 more hours at Vanderbilt 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 37 for more 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 are 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 ordinarily continue through four years of study, as long as students maintain satisfactory academic performance. There is no application process for Honor Scholarships. Selected students will generally be notified by letter from 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 scholar-ship 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 degree 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 are 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 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 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 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 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 scholar-ship 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.

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.

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 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 OPHTHALMOLOGY 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 TENNESSEE. 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 from about \$2,000 to \$4,000 for the summer programs, depending duration of project. Limited funds for fellowship support are available on a competitive basis from individual departments within the School of Medicine, with matching support from the Dean's office. Funds are 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 credit but without remuneration. Special arrangements can be made for participation in research 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.

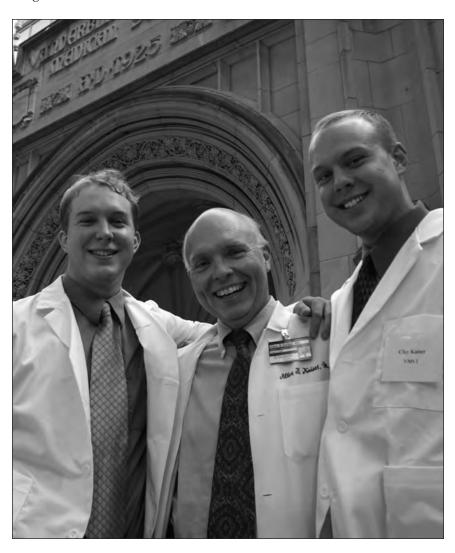
A complete listing of summer research opportunities is available on the School of Medicine Web site.

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 interest in research among medical students that may eventually lead them to pursue careers in academic medicine. The research opportunities encompass all departments of the School of Medicine and are aimed at giving medical students the opportunity to contribute to the process of discovery in either clinical or basic research laboratories.

All medical students at the Vanderbilt University School of Medicine, except those enrolled in the MSTP program, are eligible to apply to the program. Formal application to the Medical Scholars Program may be

made in the spring of each year. The duration of the program is twelve consecutive months, beginning July 1. A stipend of \$22,000 is provided for each student. Criteria for selection include a student's interest in research and an appropriate research topic and mentor. More than 200 faculty members serve as potential advisers. The types of research available to students range from patient-oriented studies to epidemiological investigations to research at the molecular level. Interested students should contact Bonnie M. Miller, M.D., Associate Dean for Undergraduate Medical Education, or Tina Hartert, M.D./M.P.H., Director of the Medical Scholars' Program.





Financial Information for Other Single Degree Programs 2004/2005

Doctor of Audiology

Tuition, 1st, 2nd, 3rd years	\$24,000
Tuition, 4th year	5,000

The total estimated cost of attendance for a first year student is \$42,540.

Master of Science in Medical Physics

	Tuition (19 hours @ \$895/hr.	\$17	,005
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The total estimated cost of attendance for a first year student is \$31,840.

Master of Science in Public Health

Tuition, 1st year (29 hours at \$895/hr.)	\$25,955
Tuition, 2nd year (7 hours at \$895/hr.)	6,265

The total estimated cost of attendance for a first year student is \$40,880.

Master of Laboratory Science

Tuition (31 hours at \$895/hr.)	\$27,245
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Master of Science in Clinical Investigation

Tuition (36 hours at \$895/hr.)	\$32,220
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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	\$1,511
Activities and recreation fee (1st and 2nd years)	294
Activities and recreation fee (3rd and 4th years)	347
Transcript fee (one time only)	30

Payment of Tuition and Fees

One-half of tuition, total fees, and other University charges are due and payable by 17 August. Second-semester tuition and other University charges are due and payable by 5 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 are met with funds from a combination of sources. Government loans that furnish significant loans to students are the Federal Subsidized and Unsubsidized Stafford Loan programs. Private alternative loans are also available.

Additional information and applications for financial aid are 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.

Research Centers

Vanderbilt University School of Medicine encompasses a number of multidisciplinary research groups that are funded primarily by external sources. Many of the centers involve investigators from schools of the University other than medicine. A brief description of each center and its general activities follows.

Vanderbilt-Ingram Cancer Center

Raymond N. Dubois, Jr., Director

This center is concerned with all cancer-related efforts at Vanderbilt University Medical Center. It is a matrix center including 197 faculty members. In 1995, after a comprehensive review, the National Cancer Institute designated the center as one of its nationally recognized clinical cancer centers. It fosters interdisciplinary cancer patient care, cooperative bench research activities, bridging of basic and clinical research with clinical care activities, and education of predoctoral students, postdoctoral research fellows, and clinical residents and fellows. The E. Bronson Ingram Cancer Center administrative offices are housed on the sixth floor of the Frances Preston Medical Research Building and have approximately 15,000 square feet of research space in this area. Research laboratories are also housed on other floors of the Ann and Roscoe Robinson Medical Research Building and the Frances Preston Medical Research Building and in Light Hall, Medical Center North, and the Henry-Joyce Clinical Research Center in The Vanderbilt Clinic. Patient care activities occur in the Henry-Joyce Cancer Clinic, Vanderbilt Hospital, Children's Hospital, the Breast Cancer Clinic at the Village at Vanderbilt, and the Veterans Administration Medical Center.

The Vanderbilt-Ingram Cancer Center includes the A. B. Hancock Jr. Memorial Laboratory, focusing on molecular epidemiology and cancer prevention studies, and the Frances Williams Preston Laboratory, funded by the T. J. Martell Foundation and focusing on cancer genetics and gene therapy. Also included are six endowed chairs: Craig-Weaver Chair in Pediatrics, William L. Bray Chair in Urologic Surgery, Cornelius Abernathy Craig Chair in Medical and Surgical Oncology, Mary Geddes Stahlman Chair in Cancer Research, Benjamin F. Byrd Jr. Chair in Clinical Oncology, and Hortense B. Ingram Chair in Molecular Oncology. The eight research programs include Signal Transduction and Cell Proliferation, Host-Tumor Interactions, Gastrointestinal Cancer, Cancer Etiology, Cancer Genetics, Breast Cancer, Cancer Pharmacology, and Clinical Investigations. Core laboratories are transgenic, retroviral vector, cell imaging, DNA sequencing, human tissue acquisition, clinical trials, biostatistics, bioanalysis, peptide sequencing, and genetics.

Center for Child Development

Robin McWilliams, Director

The Center for Child Development is the division of the Department of Pediatrics involved with developmental and behavioral pediatrics.

Center for Clinical and Research Ethics

Stuart G. Finder. Director

Since its establishment in 1982, the center has been devoted to developing multi-faceted programs serving the Medical Center and University communities and to helping cultivate a public that is informed by and supportive of the very finest in patient care, biomedical research, and ethical understanding. To those ends, center faculty members pursue a variety of activities. These include establishing (in 1984) and staffing the Medical Center's Clinical Ethics Consultation Service; serving on the Medical Center Ethics Committee; teaching both required and elective courses at Vanderbilt's Schools of Medicine and Nursing; teaching undergraduate and graduate courses in Vanderbilt's Department of Philosophy, Graduate Department of Religion, Divinity School, and Law School; providing lectures and other types of public presentation for area community groups—churches, schools, civic groups, health agencies, industry, and others; and publishing and participating in professional scholarship focused on health care ethics and ethics consultation.

There are three central aims to all work pursued by center personnel. First is to understand the distinctive clinical and research practices and activities in which health care professionals engage, in the contexts where such practices and activities actually occur—e.g., hospitals, clinics, and laboratories. Second is to address the ethical issues present within these various settings and practices in a manner that is attentive to one's own placement within these settings and as associated with those practices. Third is to understand this complex involvement in the more general terms of the moral dimensions of human relationships.

Center for General Clinical Research

David Robertson, Director

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, progression, prevention, control, and care of human disease. It fulfills these objectives by creating 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 department. 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 from the National Center for Research Resources

Center for Human Genetics Research

Jonathan Haines. Director

The Vanderbilt Center for Human Genetics Research (CHGR) was initiated in July 1997 to bring a focus to human genetic research at Vanderbilt, to foster the expansion of this research, to help develop new initiatives that incorporate the latest in genetic information, and to develop appropriate 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 are 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 Molecular Neuroscience

Randy D. Blakely, Director

The Center for Molecular Neuroscience (CMN) supports research into the genetics, biochemical and cellular underpinnings of brain function and behavior. For more information regarding CMN activities and resources, e-mail randy.blakely@vanderbilt.edu or contact our office at (615) 936-3705.

Clinical Nutrition Research Unit

Raymond F. Burk, Director

CNRU is one of twelve nutrition research units established nationwide by the National Institutes of Health. Its objectives are to enhance clinical and basic nutrition research within Vanderbilt; to strengthen nutrition training of health care professionals; and to improve patient care by focusing attention on nutrition. The CNRU research base investigators include twenty-eight clinicians and scientists representing eight departments within the School of Medicine. Research activities include study of the role of growth factors on the maturation and differentiation of the intestinal tract; the metabolism and function of vitamins, amino acids, lipids, and trace elements; and the interaction among nutrient metabolism, exercise, and energy expenditure. The CNRU core facilities include an energy balance core with whole room indirect calorimeter, a nutrition assessment core, a one-carbon metabolism core, a mass spectrophotometer core, an analytical core, a protein-immunology core, and an administrative core with a biostatistical component. The CNRU provides support for a Pilot and Feasibility Program for nutrition-related research and a New Investigator Award for young researchers involved in basic or clinical research. The work of the CNRU is supported by a grant from the National Institute of Diabetes and Digestive and Kidney Diseases.

Vanderbilt Kennedy Center for Research on Human Development Pat R. Levitt, Director

Vanderbilt Kennedy Center for Research on Human Development is one of fourteen national centers for research on mental retardation and developmental disabilities supported in part by the National Institute of Child Health and Human Development. The mission of the Kennedy Center is to improve, through research, training, and outreach, the quality of life of persons with disorders of thinking, learning, perception, communication, mood, and emotion caused by disruption of normal development. The center is a University-wide research, training, diagnosis, and treatment institute, embracing faculty and resources available through Peabody College, Vanderbilt University Medical Center, and the College of Arts and Science. The center's interdisciplinary research programs address three broad areas: communication and learning, developmental neurobiology and brain plasticity, and emotion and mood.

The Kennedy Center has a distinguished record of training behavioral and biomedical scientists who are dedicated to solve problems of development and developmental disabilities. Center investigators are Vanderbilt faculty known nationally and internationally for their innovative research. The Kennedy Center is committed to moving research from the laboratory, to the classroom and clinic, to society.

Students have the opportunity to collaborate in research with mentorship from renowned scientists, especially with faculty in Vanderbilt research training programs associated with the Kennedy Center: mental retardation and developmental disabilities, special education, developmental psychopathology, neurogenomics, neuroscience, and vision Observation, practicum, and clinical experiences are available in the center's clinical programs: the Susan Gray School for Children, an early childhood education/special education program of Peabody College and the Kennedy Center; the Reading Clinic; the Developmental Disabilities Behavior Clinic; and, as of fall 2004, the Family Research and Resources Clinic. The Kennedy Center is a participant in the Vanderbilt Brain Institute, a transinstitutional, interdisciplinary program to foster and facilitate neuroscience research, training, science education, and public outreach. Collaborative relationships with the Tennessee Departments of Education, Health, and Mental Health and Developmental Disabilities, and county school systems and community programs provide additional research and clinical opportunities.

Vanderbilt Center for Space Physiology and Medicine

David Robertson, Director

To demonstrate its commitment to research in the physiological challenges of manned space flight, Vanderbilt University Medical Center established the Center for Space Physiology and Medicine in 1989. Under the direction of David Robertson, M.D., Professor of Medicine, Pharmacology, and Neurology, and F. Andrew Gaffney, 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 recognized authorities in many areas 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 Cardiological Research Center in Moscow.

For information about fellowships and research opportunities, contact David Robertson, M.D., Director, Center for Space Physiology and Medicine, AA-3228 Medical Center North, Vanderbilt University Medical Center, Nashville, TN 37232-2195, U.S.A.; e-mail: david.robertson@vanderbilt.edu.

Center for Structural Biology

Walter Chazin, Director

Reearch in structural biology addresses questions designed to increase our understanding of the molecular foundation that drives biological processes. By investigating the three-dimensional structures of biological macromolecules at the atomic level of detail, structural biologists work to discover precisely how these molecular machines carry out their functions.

These studies incorporate a wide range of techniques including molecular biology, X-ray crystallography, NMR spectroscopy, and computational biology.

Vanderbilt Center for Evidence-based Medicine (VCEBM)

Paul Keckley, Director

"Evidence-based medicine is the conscientious application of scientific best practice by clinicians in concert with the patient's understanding and values."—Sackett, et al.

The Vanderbilt Center for Evidence-based Medicine was founded in 2003 after five years of funding, planning, and research into the principles and outcomes of evidence-based medicine applications to health care delivery in the U.S.

The mission of the Vanderbilt Center for Evidence-based Medicine is to promote understanding and adoption of evidence-based medicine to health system transformation.

In addition, evidence-based medicine is the basis for appropriate health delivery worldwide, so VCEBM will pursue relationships and opportunities with international significance. This will be in collaboration with professional organizations, sponsors of VCEBM, and other leading academic institutions/organizations.

Curriculum Development. Under the direction of the Dean, the active integration of evidence-based medicine into the curriculum for medical students and residents at Vanderbilt is pursued.

Faculty Support/Collaboration. Vanderbilt faculty are actively engaged in programs of VCEBM.

Interdisciplinary Programs. The center works across business and legal disciplines to stimulate understanding and develop educational curricula.

Free-Electron Laser Facility

David Piston, Director

Located adjacent to Medical Center North, this facility was established several years ago by the Office of Naval Research to promote exploration of novel lasing wavelengths for use in numerous applications, such as medicine. It is one of only a handful in the world which permits the tuning of the laser to a customized wavelength. Of significance is the fact that, through the work of Dr. Michael L. Copeland, a new wavelength was discovered that produces minimal tissue damage beyond the site of the lesion. This has opened up numerous possibilities for use of this wavelength for tumor dissection, peripheral nerve repair, and possibly lesion creation for brain and spinal cord syndromes with minimal thermal damage adjacent to the lesion. It is the hope of Dr. Peter E. Konrad that this medium can also be used for improved repair of peripheral nerves and perhaps, someday, central nervous tissues such as the spinal cord.

Vanderbilt Addiction Research Center

Peter R. Martin, Director

The Vanderbilt Addiction Research Center provides the academic focus within Vanderbilt University for research, education, and clinical care activities related to the pathogenesis, prevention, and treatment of alcohol and other drug abuse and dependence. VARC represents an interdepartmental network of investigators and clinicians from the Schools of Medicine, Nursing, and Engineering, the College of Arts and Science, and Peabody College who work both individually and in collaboration with many other faculty members. VARC serves to identify important research opportunities, to assist investigators in identifying collaborators within and without the institution, and to facilitate the research process by providing a forum for interdisciplinary discussions among clinical and basic scientists.

Vanderbilt Diabetes Center

Daryl K. Granner, Director

The Vanderbilt Diabetes Center (VDC) encompasses the NIH-sponsored Diabetes Research and Training Center (DRTC), the Veterans Administration/Juvenile Diabetes Foundation-sponsored Diabetes Research Center (VA/JDF DRC), three NIH-sponsored training programs, and an extensive clinical care program.

The Vanderbilt Diabetes Research and Training Center (DRTC) involves sixty-five participating faculty members from fourteen departments, schools, and colleges of the University. The center is organized into three components: research, training and translation, and administration. The activities of the research component include core support for basic biomedical research and the Pilot and Feasibility Studies Program, which aids new investigators in testing the feasibility of new ideas before submitting grant proposals for long-term support. The demonstration and education component operates a model demonstration unit in which students in the health professions encounter patients with well-characterized diabetes who have volunteered for approved clinical research programs. The administrative component develops outside resources for training and research grants and initiates and supervises such activities as the Diabetes Center Seminar Series and the Visiting Scientist Program. DRTC funding is provided by a grant from the National Institutes for Health.

The newly established VA/JDF DRC involves eighteen participating faculty members from several different departments and schools of the VA and the University. The center has the overall project title "Metabolic Adaptations to Diabetes" and consists of three individual research projects and a clinical services core. The activities of the research component combine basic biomedical research with a heavy emphasis on patient-oriented clinical studies. A broad spectrum of topics clinically relevant to diabetes, such as insulin resistance, defective body weight regulation, exercise, and hypoglycemia, are investigated by the center. The clinical services core 1) recruits and intensively treats diabetic patients for individual research projects; 2) translates research advances of the center to patients and scientists; and 3) teaches and raises awareness of diabetes among health care professionals caring for diabetes. The Nashville VA/JDF DRC is one of only three such centers in the country, and funding is provided by a joint grant from the Veterans Affairs Department and the Juvenile Diabetes Foundation International.

Three NIH-sponsored training programs are administered through the VDC. These include the Molecular Endocrinology Training Program (preand postdoctoral trainees), the Diabetes and Endocrinology Training Program (postdoctoral), and the Student Summer Research Programs (medical student trainees). The Diabetes Clinical Care Program is administered by Dr. Alan Graber. He, along with two other full-time clinicians and the several members of the Diabetes-Endocrinology Division, provide state-of-the-art care to persons with diabetes and other endocrine disorders.

Center for Lung Research

Brian Christman, Director

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 research. These investigators work both individually and in collaboration with many other faculty members. The center serves to identify important research opportunities, to assist investigators in identifying collaborators within and without the institution, and to facilitate the research process by providing physical facilities, financial support, and administrative and scientific expertise. The center maintains close relationships 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 in Molecular Toxicology

F. Peter Guengerich, Director

The Center in Molecular Toxicology is an interdepartmental system that provides an environment for research in molecular toxicology by center investigators and affiliated faculty in the departments of Biochemistry, Cell Biology, Chemistry, Medicine, Pathology, and Pharmacology. The National Institute of Environmental Health Sciences has aided the center with a grant since 1967. The center provides ongoing support for key faculty members in toxicology; supports core facilities, used on a collaborative basis for research efforts; and fosters collaboration through seminar programs, symposia, and pilot project support. Faculty members are involved in a wide spectrum of research interests covering the chemical and biological aspects of molecular toxicology. Key research interests include (a) enzymatic oxidation and conjugation, (b) oxidative damage, (c) DNA damage and mutagenesis, (d) regulation of gene expression, and (e) environmental pathology.

Digestive Disease Research Center

The DDRC is a multidisciplinary center at Vanderbilt University Medical Center developed to serve the following purposes:

- Promote digestive diseases-related research in an integrative, collaborative, and multidisciplinary manner
- Enhance the basic research capabilities of established DDRC investigators
- Attract investigators not involved in digestive diseases-related research to pursue these lines of investigation
- Develop and implement programs for training and establishment of young investigators in digestive diseases-related research
 - Facilitate the transfer of basic research findings to the clinical area

Informatics Center

William Stead, Director

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 health care. We use information, technology, and communication to change the face of health care to provide the best care, education, and research possible

Mass Spectrometry Research Center (MSRC)

Richard Caprioli. Director

The three laboratories which compose the center, Research, Core Service, and Proteomics, provide the local research community with world-class instrumentation and collaborative support of cutting-edge research in the medical and bioscience fields. Please visit the links to each laboratory for more details regarding our research projects and services.

George O'Brien Center for the Study of Renal Disease

Raymond C. Harris, Jr., Director

The objective of the Nephrology Center is to contribute to the understanding of pathogenic mechanisms leading to progressive 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 from the National Institutes of Health grant titled "Biology of Progressive Nephron Destruction."

Center for Matrix Biology

Billy Hudson, Director

The goal for the Center for Matrix Biology is to stimulate interdisciplinary research in extracellular matrix as it relates to organ development, cancer, and the pathophysiology of tissue fibrosis. It provides a new focus on the biochemical and structural aspects of matrices that should complement all of the biological studies in pathophysiology and molecular biology already in place.

Center for Pharmacology and Drug Toxicology

Jason D. Morrow, Director

Research in the center is conducted by fifteen investigators in the departments of Pharmacology and Medicine, working in a program that joins clinical investigation with science at the molecular level. The research addresses the pharmacology of prostaglandins, leukotrienes, and other lipid mediators, as well as their participation in the pathophysiology of allergy, asthma, and cardiovascular disease. Funds for the support of the center come from the National Institute of General Medical Sciences.

Vanderbilt Center for Stem Cell Biology

Mark Magnuson, Director

The mission of the Vanderbilt Center for Stem Cell Biology is to perform basic research necessary to learn how to produce new cell-based treatments from embryonic stem cells. To do this, we must first learn more about the biology of stem cells and how to direct their differentiation towards specific fates. The Vanderbilt Center for Stem Cell Biology is home for the Coordinating 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.

Center for Health Services Research

Robert S. Dittus, Director

The mission of the Center for Health Services Research is to improve public and personal health through discovery and training programs aimed to protect against threats to health, promote 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 care, and the costs of health care. To achieve improved health, center programs conduct research to advance health care systems so that they are safe, effective, patient-centered, timely, efficient, and equitable. The center has six research units: clinical epidemiology and outcomes research, clinical improvement and operations research, clinical economics and operations research, chronic disease and molecular epidemiology, health behavior and education research, and health policy.

Institute for Experimental Therapeutics

Dan Roden, Director

The Institute for Experimental Therapeutics builds on Vanderbilt's internationally recognized strengths in human pharmacology. The major missions of the institute are to investigate mechanisms underlying variability in drug actions in humans, and to translate those results into more-effective use of available drugs and the development of improved drug therapies.

Center for Reproductive Biology Research

Marie-Claire Orgebin-Crist, Director

Thirty-four faculty members from ten departments in the School of Medicine and the College of Arts and Science participate in the work of the center. Basic and clinical research focuses on four areas: the male reproductive system; the female reproductive system; fertilization, implantation, and embryonic development; and reproductive endocrinology. Center financing is provided by a training grant from the National Institute of Child Health and Human Development and from research grants related to both basic and clinical aspects of the reproductive sciences.

Vanderbilt Brain Institute

Elaine Sanders-Bush, Director

The Vanderbilt Brain Institute (VBI) promotes and facilitates the discovery efforts of Vanderbilt neuroscientists, the training of undergraduate and graduate students, and the coordination of public outreach in brain sciences. Research endeavors in the VBI include more than two hundred scientists from forty departments, centers, and institutes across the campus, spanning a spectrum of study from molecules to the mind.

Vanderbilt's neuroscience training programs foster the development of trainees to independent research scientists and educators, preparing them for careers in an integrative discipline. Students in the graduate neuroscience training program have the option of a curriculum and research program that emphasizes either cellular/molecular or integrative/cognitive neuroscience and are mentored by a distinguished training faculty reflecting the multidisciplinary nature of the field.

The VBI is also committed to educating the public about the extraordinary advances in brain research and how those discoveries significantly affect many aspects of people's lives. The institute annually sponsors Brain Awareness Month, a unique opportunity for Vanderbilt neuroscientists to interact with and educate the greater Nashville community about the progress, promise, and benefits of brain research.

The Vanderbilt Brain Institute is located in Medical Research Building III, with administrative offices on the first floor. Contact VBI at (615) 322-3532 or by e-mail at *brain.institute@vanderbilt.edu*, or visit the institute Web site at http://braininstitute.vanderbilt.edu.

Women's Reproductive Health Research Center

Kevin G. Osteen, Director

The Women's Reproductive Health Research Center was established in 1999, with principal funding from the National Institute of Child Health and Human Development, as part of the Specialized Cooperative Centers Program on Reproduction Research. This center's purpose is to promote clinically focused research programs at institutions that possess research strength in both basic science and clinical medicine. At Vanderbilt, our center has developed a program that is broadly focused on promotion of reproductive health by increasing our understanding of normal reproductive biology, as well as the dysfunction associated with such diseases as the abnormalities of pregnancy, dysfunctional uterine bleeding, endometriosis,

and cancer. In addition to support from the National Institutes of Health, our center receives support from the Endometriosis Association for our international research and training program in endometriosis research. This training program supports collaborations among basic and clinical scientists within the multidisciplinary research environment at Vanderbilt, with a focus on the care of women with endometriosis and associated diseases. The over-arching goal of our center is to move scientific discoveries of reproductive disease from bench to bedside to improve the health care of women.

Center for AIDS Research (Vanderbilt-Meharry Collaboration)

Richard T. D'Aquila, Director

The Vanderbilt-Meharry Developmental Center for AIDS Research is supported by a grant from the National Institutes of Health and was established in 1999 to promote collaboration between Vanderbilt and Meharry on research involving the human immunodeficiency virus (HIV), which causes AIDS, and which is spread primarily by sexual contact and intravenous drug use. The center brings the core research infrastructure of Vanderbilt together with Meharry's expertise in treating HIV/AIDS, particularly among minority populations.





Courses of Study



School of Medicine Departments

Anesthesiology

Biochemistry

Biomedical Informatics

Biostatistics

Cancer Biology

Cell and Developmental Biology

Emergency Medicine

Family Medicine

Hearing and Speech Sciences

Medical and Educational Administration

Medicine

Microbiology and Immunology

Molecular Physiology and Biophysics

Neurology

Obstetrics and Gynecology

Ophthalmology and Visual Sciences

Orthopaedics and Rehabilitation

Pathology

Pediatrics

Pharmacology

Preventive Medicine

Pharmacoepidemiology

Psychiatry

Radiation Oncology

Radiology and Radiological Sciences

SURGICAL SCIENCES

General Surgery

Cardiac Surgery

Neurosurgery

Oral and Maxillofacial Surgery

Otolaryngology

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, Jayant K. Deshpande, John Watson Downing, Kevin Strange

ADJUNCT PROFESSORS Jayakumar Reddy Kambam, Winston Clive-Victor Parris ASSOCIATE PROFESSORS Frederick E. Barr, Curtis L. Baysinger, Jill K. Boyle, Kevin B. Churchwell, John G. D'Alessio, Eric Delpire, Shannon L. Hersey, Michael S. Higgins, Benjamin W. Johnson, Jr., Ira S. Landsman, Thomas C. Lewis, Janice M. Livengood, Addison K. May, Ray Paschall, Jr., Stewart N. Perlman, Michael G. Richardson, Ann Walia

ADJUNCT ASSOCIATE PROFESSORS David Dwight Alfery, Gilberto Carrero, Steve A. Hyman, Garry V. Walker

ASSISTANT PROFESSORS Arna Banerjee, Michelle Margaret Barnes, John Allan Barwise, Barry W. Brasfield, Stephen P. Bruehl, Susan A. Calderwood, Meera Chandrashekar, Ok Yung Chung, Kevin P. M. Currie, Hugh U. Dalton, Robert J. Deegan, Brian S. Donahue, Letitia Jane Easdown, Hani El-Alayli, Alexander Fisher, William W. Goldsmith, Marek Grzeszczak, Stephen R. Hays, C. Scott Hoffman, Julie Kay Hudson, Alexander K. Hughes, Adrian A. Jarquin-Valdivia, Paulette M. Johnson, Sabina Kupershmidt, Ellen M. Lockhart, Letha Mathews, Stephanie Mouton-Reed, Richard M. Nass, Nancy O'Dell, Daniel E. Oaks, Ramachander Pai, Pratik Pandharipande, Clifford Lee Parmley, Neal R. Patel, Michael A. Pilla, Robert Marc Pousman, Mias Pretorius, Vidya Rao, Matthew Adam Roberts, Venkatramanan Shankar, Silvio Sitarich, Kenneth G. Smithson, Paul J. St. Jacques, Carl William Stanberry, Mary B. Taylor, Prakash C. Viswanathan, Lucia Daiana Voiculescu, Dila Vuksanaj, Mirjana Vustar, Roslynn Elizabeth Webb

RESEARCH ASSISTANT PROFESSORS Ana Estevez, Daniel J. France, Christina I. Petersen ADJUNCT ASSISTANT PROFESSORS Henry W. Baggett, William D. Daniels, Claude L. Ferrell, Clark H. Galbraith, Vijay Rani Makrandi, Thomas F. Shultz, Michael J. Stabile, Geeta P. Wasudev

ASSOCIATES Stephen T. Blanks, Raymond F. Johnson

INSTRUCTORS Susan S. Eagle, James A. Ramsey, Annemarie Thompson, Sally A. Watson RESEARCH INSTRUCTOR Franck Potet

CLINICAL INSTRUCTOR Jean-Terese Fischer

ASSISTANTS Ribert Williams Atwood, Robert A. Crawford, Adele Franzblau Kleinrock, Nimesh Patel, Neal W. Sanders, John Shields, Joshua L. Yarbrough

THE Department of Anesthesiology provides lectures and offers a two-and-a-half-week selective for third-year students on aspects of anesthesiology within the Surgery clerkship. Fourth-year elective courses are 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, Jorge H. Capdevila, Richard Caprioli, Graham F. Carpenter, Walter J. Chazin, 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, James P. Tam, Conrad Wagner, Michael R. Waterman

VISITING PROFESSOR Tsutomu Shimada

RESEARCH PROFESSORS Essam E. Enan. Carol A. Rouzer

ADJUNCT PROFESSOR Marcia E. Newcomer

ASSOCIATE PROFESSORS Bruce D. Carter, Martin Egli, Thomas N. Oeltmann, James G. Patton, Virginia L. Shepherd, Joe Zhizhuang Zhao

RESEARCH ASSOCIATE PROFESSORS Robert J. Cook, Raymond L. Mernaugh, Takaaki Senbonmatsu, Masaaki Tamura

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, Jaison Jacob, Norio Kagawa, Zigmund Luka, Laura Sera Mizoue, Jeffrey Kyle Myers, Larissa M. Podust, Jarrod A. Smith, Oleg Yu Tikhomirov, Eugenia M. Yazlovitskaya

RESEARCH INSTRUCTORS Shibani Bhattacharya, Dale Shannon Cornett, Chuan Ji, Galina I. Lepesheva, Hong-Jun Liao, James K. Mobley, Rekha R. Pattanayek, Michelle L. Reyzer, Genyan Yang, Lisa J. Zimmerman

ASSISTANTS Hans Rudolf Aerni, Karen C. Angel, Philip J. Kingsley, Li Lei, Jeremy Lynn Norris, Yufen Wang

THE Department of Biochemistry offers to first-year students basic information on the chemistry of living organisms. Electives available to students at all levels include such topics as nutritional biochemistry; toxicology; fundamentals of human nutrition; advanced biochemistry; genes and their regulation; clinical biochemistry; lipid chemistry, metabolism and transport; nutrition rounds; chemical mechanisms of enzyme catalysis; and reproductive 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

INTERIM CHAIR Nancy M. Lorenzi

PROFESSORS Mark E. Frisse, Nunzia B. Giuse, Nancy M. Lorenzi, Randolph A. Miller, Judy G. Ozbolt, Joe B. Putnam, William W. Stead, Elizabeth Weiner ASSOCIATE PROFESSORS Steven Holloway Brown, Dario A. Giuse, Stanley E. Graber, Michael S. Higgins, Kevin B. Johnson, Edward K. Shultz, Andrew G. Stricker

ASSISTANT PROFESSORS Constantin Aliferis, Dominik Aronsky, Erik M. Boczko, Mary E. Edgerton, Mark E. Frisse, Jim N. Jirjis, Shawn E. Levy, Asli Ozdas, Neal R. Patel, Josh Favrot Peterson, Samuel Trent Rosenbloom, W. Anderson Spickard III, John Malotte Starmer, Ioannis Tsamardinos, Lemuel Russell Waitman, Stuart T. Weinberg

RESEARCH ASSISTANT PROFESSOR Terri Tiechua Ni INSTRUCTORS Fern FitzHenry, William Gregg

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 from biomedical engineering, biometry, computer science, decision science, health policy, and library science. Electives offer an opportunity for independent study in one of these areas.

Cancer Biology

CHAIR Lynn M. Matrisian

PROFESSORS Carlos L. Arteaga, R. Daniel Beauchamp, Stephen J. Brandt, David P. Carbone, Raymond N. DuBois, Jr., Michael L. Freeman, Dennis E. Hallahan, Lynn M. Matrisian, Robert J. Matusik, Harold L. Moses, Vito Quaranta, Albert B. Reynolds, J. Ann Richmond

RESEARCH PROFESSOR Robert H. Whitehead

ASSOCIATE PROFESSORS Ravi S. Chari, Sanjoy K. Das, Roy Andrew Jensen, Walter Gray Jerome III, Peng Liang, Josiah Ochieng, Richard M. Peek, Jr., Cathleen C. Pettepher, Elizabeth Yang, Wendell Gray Yarbrough

RESEARCH ASSOCIATE PROFESSORS J. Oliver McIntyre, Nagendra S. Ningaraj ASSISTANT PROFESSORS Neil Adri Bhowmick, Jin Chen, Thao P. Dang, Pran Krishna Datta, Mark P. de Caestecker, Josiane Eid, Simon William Hayward, Susan Kasper, P. Charles Lin, Ambra Pozzi, Jeffrey Roser Smith, Anna Spagnoli, Cristina I. Truica, Alissa M. Weaver, Fiona Elizabeth Yull, Roy Zent

RESEARCH ASSISTANT PROFESSORS Joseph M. Amann, Punita Dhawan, Guo-Huang Fan, Barbara Mary Fingleton, Shimian Qu, Robbert Jacobus C. Slebos, Jeffrey R. Smith, Takamune Takahashi

ADJUNCT ASSISTANT PROFESSORS Gianluigi Giannelli, Naohiko Koshikawa ADJOINT ASSISTANT PROFESSOR William M. Grady

INSTRUCTOR H. Wayne Lambert

RESEARCH INSTRUCTORS Lisa J. McCawley, Jiqing Sai, Incheol Shin, 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 required curriculum for first-year medical students. An opportunity for independent study in the area of basic cancer research is provided.

Biostatistics

CHAIR Frank E. Harrell, Jr.
PROFESSORS William D. Dupont, Frank E. Harrell, Jr., Yu Shyr
VISITING PROFESSOR Don Hong
ASSOCIATE PROFESSOR Irene Feurer
ASSISTANT PROFESSORS Patrick G. Arbogast, D. Dean Billheimer, Chun Li, Tatsuki
Koyama, Bonnie LaFleur, Chang Yu
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, Patricia L. Harrison, 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 are also independent researchers in the methods of biostatistics.

Cell and Developmental Biology

CHAIR Susan Rae Wente

PROFESSORS EMERITI Alvin M. Burt III, James A. McKanna

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, Ford F. Ebner, James Richard Goldenring, Kathleen L. Gould, Steven K. Hanks, Stephen R. Hann, Jon H. Kaas, Robert J. Matusik, Michael H. Melner, Lillian B. Nanney, Eric G. Neilson, Jeanette J. Norden, Gary E. Olson, Marie-Claire Orgebin-Crist, John S. Penn, Roland W. Stein, Susan Rae Wente, Christopher V. E. Wright

RESEARCH PROFESSOR Robert Whitehead

ADJUNCT PROFESSORS David G. Greathouse, John Steven Halle

ASSOCIATE PROFESSORS Timothy S. Blackwell, Chin Chiang, David I. Greenstein, Christopher F. J. Hardy, David M. Miller III, David Brent Polk, William Evans Russell, Linda Sealy, Jane Y. Wu, Elizabeth Ching-Wen Yang

ADJUNCT ASSOCIATE PROFESSOR Robert C. Bone

ASSISTANT PROFESSORS Timothy S. Blackwell, Jin Chen, Mark P. deCaestecker, Daniela Drummond-Barbosa, Guoqiang Gu, Raul J. Guzman, Roy Andrew Jensen, Anne K. Kenworthy, Peter A. Kolodziej, Tsutomu Kume, Ethan Lee, Laura Anne Lee, P. Charles Lin, Anna L. Means, James E. Sligh, Jr., E. Michelle Southard-Smith, Guanqing Wu, Tao Peter Zhong

RESEARCH ASSISTANT PROFESSORS Jeffrey L. Franklin, Susan Kasper, Subir Kumar Nag Das

INSTRUCTOR H. Wayne Lambert

RESEARCH INSTRUCTORS Degiang Jing, Ying Qi, Susan J. Ruff

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. Elective courses are offered by the department in areas 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.

ANAT-5020. Gross Anatomy. Medical 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, and a subjective evaluation of team participation and professionalism by peers and faculty is a component of the final grade. 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 second-year 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, neurochemistry and neuropathology. 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 Eric Martin Chazen, Jeremy J. Kaye, Corey M. Slovis, Keith Wrenn VISITING PROFESSOR Ron M. Walls

ASSOCIATE PROFESSORS Andrea C. Bracikowski, Timothy G. Givens, Robin R. Hemphill, E. Paul Nance, Jr., Seth W. Wright

ASSISTANT PROFESSORS Donald Hayes Arnold, Dominik Aronsky, Richard S. Belcher, James F. Bihun, John J. Block, Joan Margaret Collier, Stephanie H. Eidson, Daniel P. Himes, Ian D. Jones, William E. Lummus, Susan Kathleen Marlow, Jeffry P. McKinzie, Marc Mickiewicz, Kenneth Hugo Palm, Doris Elise Powell-Tyson, Steven T. Riley, Sally Santen, Gary R. Schwartz, Charles M. Seamens, Donna L. Seger, Lawrence B. Stack, David S. Taber, R. Jason Thurman, Steven John White

ASSISTANT CLINICAL PROFESSORS Paul M. Bergeron, Anna H. Bradham, Laurie M. Lawrence, Brian R. McMurray, Steven R. Meador, Wayne E. Moore, John Hannon Proctor ASSOCIATE David H. Sewell

INSTRUCTORS Alison R. Asaro, Deanna S. Bell, Stephen John Cico, David Z. Dalu, Robert Warne Fitch, Natasha B. Halasa, Neil D. Harris, Gregory H. Jacobson, Victor Y. Levy, David Russell Malin, Alan L. Mannheimer, Patrick J. Meehan, Timothy Preston Myers, Jill Cole Obremskey, Mark Francis Ander Reese, Daniel R. Scanga, Clay B. Smith, Shannon B. Snyder

CLINICAL INSTRUCTORS James R. Hanley, Rachel T. Kaiser, 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 clerkship, 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
PROFESSOR Roger J. Zoorob
CLINICAL PROFESSOR William MacMillan Rodney
ASSISTANT PROFESSOR Gene Alan Hannah
INSTRUCTORS Tom C. Duncan, James R. MacDonald, Arthur K. Williams
CLINICAL INSTRUCTORS Gregg P. Allen, Charles A. Ball, Elizabeth B. Burgos, Raul
Coronado, Elizabeth Harlan Crowe, Douglas Gaither, Shawn N. Gentry, James Norris
Johnson, Earl L. Kelly, Charles T. Marable, Rebecca L. Morgan, Scott R. Parker, Tony L.
Ross, Alex James Slandzicki, Ruth Carr Stewart, Arthur E. Williams

FAMILY physicians are seen as holding pivotal positions to ensure the delivery of comprehensive and personalized health care. 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, 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

CLINICAL PROFESSOR 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

ADJUNCT ASSOCIATE PROFESSORS Charles E. Edmiston, Jr., Judith S. Gravel, Russell Henry Mills

ASSISTANT PROFESSORS Patricia Flynn Allen, Renee Marie Brown, 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, 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

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 and Educational 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, Roxane B. Spitzer

ADJUNCT PROFESSOR Deborah C. German

ASSOCIATE PROFESSORS Jeffrey C. Andrews, Cornelia Rose Graves, Frederick Kirchner, Jr., Diana Marver, Donald E. Moore, Jr., James W. Pichert, 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., Michelle B. Marrs, Chanchai Singhanay McDonald, Martha K. Miers, Bonnie M. Miller, Stephen B. Moore, David S. Noel, Jack P. Nyiri, David Osborn, Bret L. Perisho, Allison Pingree, Ann H. Price, Doris C. Quinn, Frank Rosato, J. Richard Wagers, Jr., Lynn E. Webb

ADJUNCT ASSISTANT PROFESSOR Barbara Clinton

ASSOCIATE William R. Rochford

ASSISTANTS Thomas F. Barnes, Jr., Angela M. Stone, 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 research as these support the objectives of the School of Medicine. The division offers elective courses on subjects related to past and present trends in American medical education, the influence of various professional organizations 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, Irwin B. Eskind, John M. Flexner, Gottlieb C. Friesinger II, H. Keith 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, John Dunning Boice, Jr., Stephen J. Brandt, Matthew D. Breyer, Wendy Weinstock Brown, Raymond F. Burk, Benjamin F. Byrd III, Jorge H. Capdevila, David P. Carbone, Graham F. Carpenter, Alan D. Cherrington, 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, 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, John S. 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, James M. May, Joseph K. McLaughlin, Clifton Kirkpatrick Meador, Barbara O. Meyrick-Clarry, Geraldine G. Miller, Randolph A. 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, 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, John Randolph Wilson, Alastair J. J. Wood, Wei Zheng

RESEARCH PROFESSOR Robert H. Whitehead

ADJUNCT PROFESSORS 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, W. Barton Campbell, Robert Seth Cooper, E. William Ewers, Fred Goldner, Jr., Laurence A. Grossman, William L. Moore, Jr., Thomas Guv Pennington, Lawrence K. Wolfe, Taylor M. Wray

ASSOCIATE PROFESSORS Mark E. Anderson, 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, Richard M. Breyer, Nancy J. Brown, Brian W. Christman, Timothy L. Cover, 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, David William Haas, James R. Hamilton, Steven K. Hanks, David E. Hansen, Elizabeth Heitman, Carl G. Hellerqvist, Scott W. Hiebert, Talat A. Ikizler, Nuhad M. Ismail, Kathy Jabs, Spyros A. Kalams, David Michael Kerins, Douglas S. Kernodle, Ela W. Knapik, Robert H. Latham, John T. Lee, Christopher D. Lind, Samuel R. Marney, Jr., David J. Maron, William H. Martin, Shin Mineishi, 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, R. Michael Rodriguez, Alan B. Sandler, Richard P. Schneider, 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, Robert J. Workman, Keith Wrenn, Joe Zhizhuang Zhao

RESEARCH ASSOCIATE PROFESSORS Hui-Fang Cheng, Igor Alexandrovich Feoktistov, Kristina E. Hill, Theodore Speroff, 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., Deborah C. German, 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, 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

ASSISTANT PROFESSORS Theodore R. Addai, Olufemi J. Adegoke, Ban Mishu Allos, Saundrett G. Arrindell, Jon R. Backstrom, Alicia B. Batson, Neelam M. Bhalla, Daniel A. Birchmore, Mark J. Bliton, Karen C. Bloch, Dorin Bogdan Borza, William Bradley Boyd, James P. Bracikowski, Wilmot C. Burch, Patrick Burnett, Jr., Brenda J. Butka, Javed Butler, Victor M. Byrd, Qiuyin Cai, Karen Cassidy, Jin Chen, Sallaya Chinratanalab, Wichai Chinratanalab, Christine Hwayong Chung, Frank Chytil, David Robertson Coxe, Thao P. Dang, Dawood Darbar, Mark P. de Caestecker, Jan Stallings DeLozier, Nanette Eldridge Dendy, Jose J. Diaz, Jr. Wonder Puryear Drake, Warren Reid Dunn, Tom A. Elasy, Jeannine Z. P. Engel, Mary Kathleen Figaro, Stuart G. Finder, Jay H. Fowke, Michael J. Fowler, Haydar Adib Frangoul, Jon Peter Fryzek, James V. Gainer III, Maureen Anne Gannon, G. Waldon Garriss III, YouFei Guan, Ralf C. Habermann, Sattar A. Hadi, David D. Hagaman, Katherine Louise Hanson, Norman Chandler Hardman, Jr., Tina V. Hartert, Richard L. Hock, Todd M. Hulgan, Chukwuemeka Venat Ikpeazu, Waleed N. Irani, Mark W. Jacokes, Madan Jagasia, Shubhada Jagasia, Adrian A. Jarquin-Valdivia, Jim N. Jiriis, Jill L. Jones, Asha Kallianpur, J. Jonas Kalnas, Hilary R. Kaplan, Bernice Karnett, Adetola Kassim, Diane S. Keeney, Lloyd G. King, Susan Faye Kroop, Tsutomu Kume, Lisa Hood Lancaster, Anthony James Langone, Robin Elizabeth Lapre, Mark A. Lawson, Albert Craig Lockhart, Christina L. MacMurdo, Ernest C. Madu, Alecia S. Malin, Glen C. Manalo, Wendy Jones Mangialardi, Pierre Pascal Massion, Charles E. Matthews, Michael E. May, Ingrid Mayer, William H. Maynard, Brendan F. McAdam, Michel Alice McDonald, Catherine C. McGowan, Lisa A. Mendes, Jami L. Miller, Robert F. Miller, Aaron P. Milstone, Sumathi K. Misra, Gilbert W. Moeckel, Brent Robert Moody, David Scott Morgan, Sandra A. Moutsios, Harvey Johnson Murff, Laine J. Murphey, Anne Taggart Neff, Erik Ness, Reid M. Ness, Kevin Dean Niswender, David Bruce P'Pool, Jr., Don J. Park, Leon L. Parks III, John P. Peach, Jason Kyle Pereira, Josh Favrot Peterson, Neeraja B. Peterson, Richard D. Pinson, Ambra Pozzi, Ann H. Price, Jan Ellen Price, Debra S. Rankin, David Reyes, Elizabeth Ann Rice, Ivan M. Robbins, Russell Lawrence Rothman, Ben Hardin Rowan III, Katherine L. Ruffner, Ruxana Taherally Sadikot, Heidi Maree Schaefer, David G. Schlundt, David A. Schwartz, Donna L. Seger, William E. Serafin, Lisa Beth Signorello, James E. Sligh, Jr., Bonnie S. Slovis, Jeffrey Roser Smith, Terrence A. Smith, Barbara M. Snook, E. Michelle Southard-Smith, W. Anderson Spickard III, Renee A. Stiles, Catherine V. Stober, Munirathinam Sundaramoorthy, Melanie Swift, Takamune Takahashi, Thomas R. Talbot III, Lucia M. Tanassi, Simpson Bobo Tanner IV, Gregg T. Tarquinio, Cristina I. Truica, Madhuri Vusirikala, Lorraine B. Ware, Paula L. Watson, David D. Weinstein, Susan Wodicka, Patty Walchak Wright, Guanging Wu, Kenneth W. Wyman, Mary I. Yarbrough, Pampee Paul Young, Ruth T. Young, Roy Zent, David Ziao-ming Zhao, Tao Peter Zhong, John A. Zic

RESEARCH ASSISTANT PROFESSORS Rasul Abdolrasulnia, Vladimir R. Babaev, Olga P. Bondar, Marcela Brissova, F. Gregory Buchanan, Nada M. Bulus, Jian-Kang Chen, Kong Y. Chen, Zhongyi Chen, Chun-Hua Dai, Qi Dai, Maria Pia G. DePasquale, Andre Michael Diedrich, Michael M. Dikov, John P. Donahue, Mesut Eren, Andrew Carl Ertl, Daniel J. France, Chuan-Ming Hao, Stanley B. Higgins, Dawn A. Israel, James C. Jackson, Myungsoo Joo, Jamshid Khoshnoodi, Prapaporn Kopsombut, Holger Kulessa, Kirk B. Lane, Wooin Lee, Cunxi Li, Elizabeth Malone Link, John T. Loh, Amy S. Major, Hyacinth R. C. Mason, Mark S. McClain, Terri Tiechua Ni, Vadim K. Pedchenko, Vasiliy Polosukhin, Lara Carpigiani Bezas Pupim, Zhonghua Qi, Doris C. Quinn, Genbin Shi, Martha Jane

Shrubsole, Mohammed Sika, Heidi J. Silver, Amar B. Singh, Tuulikki Sokka, Narasimhachar Srinivasakumar, Yan Ru Su, Elena E. Tchekneva, Carlos G. Vanoye, Christo Dimitro Venkov, Paul A. Voziyan, Wanqing Wen, Yuejin Wu, Xiaochuan Xu, Zhixiong Xu, Patricia Gale Yancey, Gong Yang, Tao Yang, Yajun Yi, Michail Zaboikin, Ming-Zhi Zhang, Rong Zhang, Yahua Zhang

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ADJUNCT ASSISTANT PROFESSORS Roberto A. Cruz-Gervis, William M. Grady SENIOR ASSOCIATE Lynda Denton Lane

ASSOCIATE Victoria L. Harris

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RESEARCH INSTRUCTORS Dana M. Brantley-Sieders, Ada Henrike Braun, Zheng Cao, Karen K. Deal, Paul Gregoli, Xiaoling Jiang, Iordanka Kourteva, Taiji Matsusaka, Tetyana V. Pedchenko, Ute Ina Schwarz, Muhammad Atif Siddique, Yinghao Su, Weisong Zhou

ADJUNCT INSTRUCTORS Matthew J. Abbate, John Q. Binhlam, Anna K. Hopla, Jeanette Sison Ilarde, Christopher C. McClure, M. Kevin Smith, Vianne Epino Villaruz, Laura F. Weikert, Bobby J. White

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 Selvi N. Palaniappan, William H. Swiggart

THE Department of Medicine offers four areas of required course work, two of them in the second year:

Second Year. Two courses: An interdepartmental course which introduces 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 are 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. SPRING. Rodriguez.

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.

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

PROFESSOR EMERITUS John H. Hash

PROFESSORS Dean Williams Ballard, Richard T. D'Aquila, Terence S. Dermody, Jacek Hawiger, J. Harold Helderman, George C. Hill, Alexander R. Lawton III, Theodore Pincus, Donald H. Rubin, Henry Earl Ruley, Subramaniam Sriram, James P. Tam, James Ward Thomas II, Luc Van Kaer, Peter F. Wright

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ASSISTANT PROFESSORS Timothy L. Cover, James E. Crowe, Jr., Hong Fang, Spyros A. Kalams, Wasif Noor Khan, Andrew J. Link, Derya Unutmaz

RESEARCH ASSISTANT PROFESSORS Robert S. Carter, Maria Pia G. DePasquale, Xueyan Liu, Chang-Yuan Ni, Lan Wu

VISITING ASSISTANT PROFESSOR Do-Sim Park

INSTRUCTOR Shreevrat Goenka

RESEARCH INSTRUCTORS Danya Liu, Yi-An Lu, Ruth Ann Veach, Jin-Long Yang, Qitao Yu, Jing Zhou

THE Department of Microbiology and Immunology provides 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 problembased small group discussions focused on different pathogen-host relationships. SPRING. Van Kaer.

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, 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 PROFESSOR Sharron H. Francis

ASSOCIATE PROFESSORS Matthew D. Breyer, Roger J. Colbran, Eric Delpire, Ronald B. Emeson, Owen Patrick McGuinness, Hassane S. Mchaourab, Richard M. O'Brien, Linda Sealy, Phoebe L. Stewart, Marshall Lynn Summar, Scott Matthew Williams RESEARCH ASSOCIATE PROFESSORS Charles E. Cobb, Mary E. Courtney Moore,

K. Sam Wells

ASSISTANT PROFESSORS Bruce M. Damon, Aurelio Galli, Maureen Anne Gannon, Alyssa H. Hasty, Anne K. Kenworthy, Shawn E. Levy, Douglas Paul Mortlock, Kevin Dean Niswender, Marylyn DeRiggi Ritchie, Masakazu Shiota, James S. Sutcliffe, Edwin John Weeber, Danny G. Winder, Chao-Lan Yu

RESEARCH ASSISTANT PROFESSORS Robert K. Hall, Eric J. Hustedt, Richard Lee Printz INSTRUCTORS Jeffrey A. Canter, Richard R. Whitesell

RESEARCH INSTRUCTORS Sheng-Song Chen, Fu-Yu Chueh, Habibeh Khoshbouei, Hanane A. Koteiche, Qiaoming Long, Mark A. Rizzo, Jonathan V. Rocheleau, Chiyo Shiota, Richard A. Stein, Mary Elizabeth Waltner-Law

ASSISTANTS Amy E. Bazyk, Genea S. Crockett, Molly Hogan Klein, Benita Lynch, Kelly A. Taylor

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 I Macdonald PROFESSOR EMERITUS John Sloan Warner PROFESSORS Bassel W. Abou-Khalil, Gerald M. Fenichel, Frank R. Freemon, Howard S. Kirshner, Patrick Lavin, Robert L. Macdonald, David Robertson, Subramaniam Sriram, Ronald G. Wiley

CLINICAL PROFESSORS Gary W. Duncan, 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

ASSISTANT PROFESSORS Muhammad Majid Al-Kaylani, Amir Arain, Malcolm John Avison, John J. Bright, Michael Kane Cooper, John Y. Fang, Martin J. Gallagher, Peter Hedera, Robert Ray Holcomb, Jane Ellen Howard, Adrian A. Jarquin-Valdivia, Andre Lagrange, Stephen Luming Lee, Gregory C. Mathews, Harold H. Moses, Jr., Anne Elizabeth O'Duffy, Diana C. Reed, Deron V. Sharpe, Pradumna P. Singh, James S. Walker, Wanda G. Webb RESEARCH ASSISTANT PROFESSORS Stefan T. J. Engstrom, Song-Yi Yao

ASSISTANT CLINICAL PROFESSORS Gretchen H. Campbell, Mary Ellen Clinton, Frances B. Kopecky, Noel P. Lim, Barbara J. Olson, Subir Prasad INSTRUCTORS Kanika Bagai, Aubrey T. Wright

CLINICAL INSTRUCTORS Alan F. Bachrach, Jan Lewis Brandes, James Alan Fry

THE Department of Neurology offers instruction in neurobiology to first-year students, seminars in clinical neurology 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 Stephen S. Entman
PROFESSORS EMERITI Benjamin J. Danzo, C. Gordon Peerman, Jr.
PROFESSORS Frank H. Boehm, Lonnie S. Burnett, John Lauchlin Currie, 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, Marie-Claire Orgebin-Crist, Kevin G. Osteen, Rose M. Robertson, Daulat Ram P. Tulsiani, Carl W. Zimmerman

CLINICAL PROFESSORS G. William Bates, James F. Daniell, Jr., Henry W. Foster, Howard D. Homesley, Houston Sarratt, Carl W. Zimmerman

ASSOCIATE PROFESSORS Jeffrey C. Andrews, Joseph P. Bruner, Cornelia Rose Graves, Lynn M. Matrisian

ASSOCIATE CLINICAL PROFESSORS Larry T. Arnold, Jill F. Chambers, Angus M. G. Crook, James H. Growdon, Jr., Robert H. Tosh

ASSISTANT PROFESSORS Kelly A. Bennett, Bruce Robert Beyer, Mark J. Bliton, Douglas H. Brown, Kaylon L. Bruner-Tran, Marta Ann Crispens, Barry Kent Jarnagin, Audrey H. Kang, Nancy B. Lipsitz, 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, Glenn A. Weitzman, Laura L. Williams

ASSOCIATE Elizabeth Colvin Huff

INSTRUCTOR Radhika K. Ailawadi

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, Andrew L. Chern, 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, 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, Robert L. Rosenfeld, Jack M. Rowland, 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, Amy Gregory Weeks, Christine M. Whitworth, Carl E. Wingo, Anne Courter Wise, Grayson Noel Woods, Erin Kristine Yu

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 are 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.

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PROFESSORS Vivien A. Casagrande, Heidi Elizabeth Hamm, Patrick Lavin, Denis M. O'Day, John S. Penn, Paul Sternberg, Jr.

VISITING PROFESSOR William Y. Boadi

CLINICAL PROFESSORS John B. Bond, Ralph E. Wesley

ASSOCIATE PROFESSORS David J. Calkins, Sean P. Donahue, Karen Margaret Joos, Jane Y. Wu

ASSOCIATE CLINICAL PROFESSORS John E. Downing, Gary W. Jerkins, Karla J. Johns, Reginald S. Lowe, Jr.

ASSISTANT PROFESSORS Anita Agarwal, Jiyang Cai, Min Shen Chang, Amy S. Chomsky, Jeffrey David Horn, Jeffrey A. Kammer, Louise Ann Mawn, Lawrence Merin, David G. Morrison, Franco Maria Recchia, Robbin B. Sinatra, Chasidy Dionne Singleton, Uyen L. Tran

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, Stephen E. Grinde, Robert R. Henderson, Deborah Ruark, Deborah D. Sherman, Ira Shivitz, Peter Sonkin, Roy Trent Wallace, Thomas A. Wohl ASSOCIATES Lori Ann Kehler, David J. Shen, Jeffrey Sonsino

INSTRUCTORS Ferjan Asghar, Srilakshmi Maguluri

RESEARCH INSTRUCTOR Ling Pan

CLINICAL INSTRUCTORS E. Dale Batchelor, Maziar Bidar, M. Terry Burkhalter, George N. Cheij, 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,

Jamie Maria Monroe, Y. B. Paranjape, David O. Ranz, Howard R. Rosenblum, Mary Frances Walker-Kerr, Roseanna Aileen Webb, Daniel S. Weikert ASSISTANT Georgia R. McCray

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 lectures 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, Gregory A. Mencio, Herbert S. Schwartz, Dan M. Spengler, Kurt P. Spindler

VISITING PROFESSOR S.K. Bhandare

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, Todd Lance Bohannon, Richard A. Davis, Warren Reid Dunn, Tarek G. El-Alayli, 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, Richard G. Shiavi, Andrew A. Shinar, Franklin D. Shuler, Horace E. Watson, Jeffry T. Watson, Douglas Ray Weikert

ADJUNCT ASSISTANT PROFESSORS Nahshon Rand, 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 Carolyn S. Aubrey, Daniel L. McNabb, Rhonda Pinkerman, Steven E. Polasky

INSTRUCTORS Ferhan A. Asghar, Bhaskar Aditya Mukherji, Mitul Kanti Patel, Gregory Scott Tennant, Lisa M. Truchan

CLINICAL INSTRUCTORS John C. Brothers, Shannon S. Curtis, Michael Craig Ferrell, Robert Bradley Ray, Mark J. Triffon

ASSISTANTS Robin E. Driver, Jeffrey Gordon

THE Department of Orthopaedics and Rehabilitation offers an introduction to clinical orthopaedic surgery. Elective specialty clinics and an elective clerkship are offered in the fourth year. The department also offers an opportunity for students to do research in orthopaedic surgery.

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

PROFESSORS James B. Atkinson III, Billy R. Ballard, Raymond F. Burk, Robert D. Collins, Jeffrey Mark Davidson, Sergio Fazio, Agnes B. Fogo, David R. Head, Richard L. Hoover, Barbara O. Meyrick-Clarry, William M. Mitchell, Harold L. Moses, Kevin G. Osteen, David L. Page, Fritz F. Parl, John A. Phillips III, Samuel Andrew Santoro, Virginia L. Shepherd, Jean F. Simpson, Mildred T. Stahlman, Larry L. Swift, Mary Kay Washington, Peter F. Wright, Mary M. Zutter

RESEARCH PROFESSOR F. James Primus

ADJUNCT PROFESSOR Martin Charles Mihm, Jr.

CLINICAL PROFESSORS Robert G. Horn, Renu Virmani

ASSOCIATE PROFESSORS Mark W. Becher, Paul E. Bock, Robert C. Briggs, Sheila Patricia Dawling, James T. Forbes, David Gailani, Roy Andrew Jensen, Walter Gray Jerome III, Joyce E. Johnson, Thomas L. McCurley III, James O. Price, Steven J. Schultenover, Herbert S. Schwartz, Gregory C. Sephel, Edward K. Shultz, Charles W. Stratton, Yi-Wei Tang, Kyi T. Tham, William M. Valentine, Cindy L. Vnencak-Jones

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 Mary Ann Thompson Arildsen, Alan Stuart Boyd, Mary E. Edgerton, Kim Adams Ely, Adriana L. Gonzalez, Gregory A. Hanley, Gilbert W. Moeckel, Anne Taggart Neff, Joan Taylor Richerson, Melinda E. Sanders, Alissa M. Weaver, 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, John E. Gerber, Thomas E. Hanes, Jerry K. Humphreys, Peter F. Jelsma, Bruce P. Levy, Feng Li, Edmund R. McKinley, Amy Ralston McMaster, 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 Yasin Kokoye, Bernadette Kempton McLaren, Margaret S. McTighe RESEARCH INSTRUCTORS Mayme Lee Lawrence, Sandra J. Olson, Richard L. Roberts, 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 third- 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 pathogenesis and manifestations of disease are presented by lectures, organ demonstrations, laboratory work, and case studies. Gross and microscopic lesions characteristic of various diseases are studied and correlated with clinical features. Computer-based lessons supplement other activities. Students participate in autopsies and are assigned patient problems. FALL. Joyce Johnson.

Pediatrics

CHAIR Arnold W. Strauss

PROFESSORS EMERITI Randolph Batson, David T. Karzon, Sandra G. Kirchner, John N. Lukens, Harris D. Riley, Jr., Sarah H. Sell

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CLINICAL PROFESSORS Eugene L. Bishop, Jr., Norman M. Cassell, Thomas Edwin Cook, William M. Doak, John P. Fields, William F. Fleet, Jr., Ralph M. Greenbaum, Joseph F. Lentz, William R. Long, Robert E. Mallard, James S. Price, Churku Mohan Reddy, David D. Thombs, Jan van Eys, Harold Vann, William Brown Wadlington, Arville V. Wheeler

ASSOCIATE PROFESSORS Frederick E. Barr, Ovidio B. Bermudez, Andrea C. Bracikowski, Brian Scott Carter, Thomas F. Catron, Kevin B. Churchwell, William O. Cooper, James E. Crowe, Jr., Donna Kathryn Daily, Sanjoy K. Das, Mark R. Denison, Debra A. Dodd, Thomas P. Doyle, Barbara Engelhardt, Frank A. Fish, James C. Gay, Joseph Gigante, Timothy G. Givens, Neil Edward Green, Shannon L. Hersey, Richard L. Hoover, Donna M. Sedlak Hummell, Kathy Jabs, James A. Johns, Kevin B. Johnson, Craig Hall Kennedy, Anthony W. Kilroy, Valentina Kon, John Frank Kuttesch, Jr., Evon Batey Lee, Bibhash C. Paria, Brahm S. Parsh, John B. Pietsch, J. Eric Pina-Garza, David Brent Polk, John C. Pope IV, John Jeffrey Reese, William Evans Russell, Paul W. Spearman, Bradley Stancombe, Sharon M. Stein, Marshall Lynn Summar, George Edward Tiller, Cindy L. Vnencak-Jones, James A. Whitlock, Scott Matthew Williams, Jane Y. Wu, Elizabeth Yang

RESEARCH ASSOCIATE PROFESSORS Joy Darlene Cogan, ZaZa A. Khuchua, Lawrence A. Scheving

ADJUNCT ASSOCIATE PROFESSORS Donald E. Lighter, John Nading ASSOCIATE CLINICAL PROFESSORS Rosemary Hunter Aaron, Robert C. Bone, Joel F. Bradley, Jr., H. Victor Braren, Arthur Scott Brooks, Paul M. Douthitt, Mary Catherine Dundon, Warren D. Ervin, Danny Wayne Futrell, Douglas C. Henry, Ronald F. Howard, 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., Elizabeth P. Pierce, 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, Earl E. Vastbinder, Thomas C. Whitworth, G. Wallace Wood

ASSISTANT PROFESSORS Sari A. Acra, Donald Hayes Arnold, Catherine Arthur, Michael Aschner, Linda Ashford, Christopher Brian Brown, Deborah Mobley Bryant, S. Todd Callahan, Karen Cassidy, Beth Trebon Clingenpeel, Shelagh Ann Cofer, R. Steven Couch, Lisa T. Craft, Mary Ellen Dees, Romano Thomas DeMarco, Stephanie H. Eidson, Vanessa E. Elliott, Kimberly D. Ernst, Vernat Exil, Mohammad Farooq Fazili, Pamela T. Fishel-Ingram, Haydar Adib Frangoul, Carol Lynne Freund, G. Waldon Garriss III, Lynette A. Gillis, Mary Jo Strauss Gilmer, Laurie Ann Greco, Christopher S. Greeley, Andrew J. M. Gregory, Marek Grzeszczak, Veronica Lawson Gunn, Paul D. Hain, Natasha B. Halasa, Ashraf Hosni Hamdan, Rizwan Hamid, Christopher E. Harris, Stephen R. Hays, Christine O. Hidalgo, Richard Hsinshin Ho, Robert Ray Holcomb, Julie Kay Hudson, Tracy E. Hunley, Paulette M. Johnson, Prince J. Kannankeril, Ann Kavanaugh-McHugh, Elizabeth King, Michael R. Liske, Cheryl A. Little, Harold Newton Lovvorn III, Rachel Lenox Mace, Puthenpurackal M. Mathew, Susan G. McGrew, Jeffry P. McKinzie, J. Donald Moore, Paul E. Moore, Walter M. Morgan III, Douglas Paul Mortlock, Dedrick Earl Moulton, Sandra A. Moutsios, Deborah G. Murdock, Jennifer L. Najjar, Joseph Jacob Nania, Nancy O'Dell, David A. Parra, Neal R. Patel, Mark T. Peters, Timothy R. Peters, Gregory Plemmons, Katherine A. Poehling, Steven T. Riley, Mauricio R. Rojas, Louise A. Rollins-Smith, Alice M. Rothman, Russell Lawrence Rothman, Margaret G. Rush, Maureen Shagena Sanger, Seth J. Scholer, Gary R. Schwartz, Sadhna M. Shankar, Venkatramanan Shankar, Robbin B. Sinatra, Sudha P. Singh, Michael Lee Smith, Anna Spagnoli, Joel W. Steelman, Rebecca R. Swan, Mary B. Taylor, Robert L. Van Dervoort, Jr., Deborah Anne Van Slyke, Dila Vuksanaj, Mirjana Vustar, Roslynn Elizabeth Webb, Neva Niccole White-Greeley, Steven John White, John Vance Williams, Kent Williams, Gregory J. Wilson, Aida Yared

RESEARCH ASSISTANT PROFESSORS Takiko Daikoku, Ji Ma, Taiji Matsusaka, Julia S. Noland, Michael Rock, Stephanie A. So, Vasundhara Varthakavi, Haibin Wang, Bingruo Wu, Fang Yan, Bin Zhou

ADJUNCT ASSISTANT PROFESSORS Reeta Misra, Olayinka Onadeko, Kreig D. Roof, Roger D. Smalligan, Vivian Ota Wang

ASSISTANT CLINICAL PROFESSORS Laurel V. Alsentzer, James C. Anderson, Nancy Graves Beveridge, Duncan R. Campbell, Susan B. Campbell, Caroline H. Chester, Shahana A. Choudhury, George T. Critz, Ray L. Dubuisson, Vernessa Wood Ekelem, Lee Ann Freeman, Susan Lanelle Gillespie, Roland W. Gray, Paul Jacob Heil, David E. Hill, Charles S. Hirshberg, William Stephen Johnson, Margreete Johnston, Jodi Ann Hitchcock Keeler, Elizabeth Duke Krueger, Laurie M. Lawrence, Ruth Barron Long, D. Mark Mahler, Susan Lynn Morgan, Charles A. Moss III, Joe Persius Moss, Jr., John Adrian Mulder, Barbara J. Olson, Brahm S. Parsh, Waclawa Yvonne Pawlowski, Julie T. Peek, Karen Lowry Putnam, Richard E. Rainey, Brian D. Riedel, 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

ASSOCIATES Margaret J. Bender, Melinda P. Cohen, Susan C. Donlevy, Martha Shaw Dudek, Vickie L. Hannig, Jean P. Pfotenhauer, Sue Ross, G. Kyle Rybczyk, Jennifer H. Vick, J. Denise Wetzel

INSTRUCTORS Deanna Lee Aftab-Guy, Rene Alison Asaro, Deanna Smith Bell, Thomas F. Byars, Stephen John Cico, C. Buddy Creech, Victor York Levy, Karen Lubell, Alan L. Mannheimer, Jill Cole Obremskey, Samuel Trent Rosenbloom, Christianne L. Roumie, Clay B. Smith, Bradley Strohler, Phyllis Lynn Thompson, Amy E. Vehec, Sally A. Watson RESEARCH INSTRUCTORS Xuemin Chen, Vanessa A. Fitsanakis, Justin C. Grindley, Lynnette M. Henderson

ADJUNCT INSTRUCTORS Richard W. Greene, Kimberlee D. Wyche-Etheridge CLINICAL INSTRUCTORS Gail L. Addlestone, Norman Albertson, Sudha S. Amatya, Lori L. Amis, 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, 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, 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, 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, David R. Hudson, Christine W. Hunley, Robert H. Hutcheson, Jr., Mary Heather Johnson, Charles Andrew Jordan, Jason L. Kastner, Samantha Y. King, Neil E. Kirshner, Mary Kline, Lawrence A. Klinsky, Michael David Ladd, Melissa Lorraine Lambert, Aubrey Amoo Lamptey, 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., Jennifer B. MacMaster, Timothy C. Mangrum, Steve Marchbank, Shellon McAllister-Brooks, 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, Gregory J. Myers, 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, Elizabeth Dewees Ponder, Mille Poole, James E. Powell, Mitchell Pullias, Jennifer Ragsdale, John M. Rahe, Ravi K. Raheja, 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, 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, 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 Misty Vetter Ballew, Amy E. Bazyk-Crunk, Hollye R. Gallion, Mary Fran Hazinski, Carol Kirshner, Rhonda Phillippi, Julie Elizabeth Rosof-Williams, Carolyn D. Smeltzer

THE Department of Pediatrics provides second-year students an introduction to pediatrics as part of an introduction to clinical medicine. Third-year 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 ward rounds; an introduction 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 growth and development. There 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 Allan D. Bass, John E. Chapman, Wolf-Dietrich Dettbarn, Joel G. Hardman, Erwin J. Landon, Peter W. Reed, B. V. Rama Sastry, Jack N. Wells,

PROFESSORS Michael Aschner, Malcolm John Avison, Jeffrey R. Balser, Italo O. Biaggioni, Randy D. Blakely, Alan R. Brash, Kendal Scot Broadie, Richard Caprioli, Peter Jeffrey Conn, Louis J. DeFelice, Ariel Y. Deutch, Sudhansu K. Dey, John H. Exton, David L. Hachey, Heidi Elizabeth Hamm, Kenneth R. Hande, Richard B. Kim, Pat R. Levitt, Daniel Christopher Liebler, Lee E. Limbird, 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

ADJUNCT PROFESSORS John Thomas Clark, Sukhbir S. Mokha

ASSOCIATE PROFESSORS Mark E. Anderson, Joseph Albert Awad, Joey V. Barnett, Richard M. Breyer, H. Alex Brown, Nancy J. Brown, Ronald B. Emeson, Alfred L. George, Jr., Vsevolod V. Gurevich, Michael J. McLean, John J. Murray, Katherine T. Murray, Bih-Hwa Shieh, C. Michael Stein, Brian E. Wadzinski, Jane Y. Wu

ASSISTANT PROFESSORS John J. Bright, Christopher Brian Brown, Sanika S. Chirwa, Chang Yong Chung, Kevin P. M. Currie, Jessica Fiedler Freiberg, Eugenia V. Gurevich, Richard Hsinshin Ho, Junji Ichikawa, Sabina Kupershmidt, Gregory C. Mathews, Michael P. McDonald, Paul E. Moore, Deborah G. Murdock, Laine J. Murphey, Richard M. Nass, Tao Peter Zhong

RESEARCH ASSISTANT PROFESSORS Jon R. Backstrom, Olivier Gilles Boutaud, Songhai Chen, Sean S. Davies, Kathie Louise Eagleson, Xia Li, BethAnn McLaughlin, 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, Qin Wang, Dave Weaver

VISITING RESEARCH ASSISTANT PROFESSOR Charles D. Nichols

ADJUNCT ASSISTANT PROFESSOR Chand Desai

INSTRUCTOR Maureen Kay Hahn

RESEARCH INSTRUCTORS Jeffrey Scott Forrester, Haifa A. Hallaq, Dayanidhi Raman, Minati Singh, Sergey Aleksandrovi Vishnivetskiy, Hong-Guang Xie, Ping Yang, Zhen-Jiang Yang, Huiyong Yin

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-, third-, and fourth-year students include pharmacokinetics, drug metabolism, cardiovascular pharmacology, molecular pharmacology, psychopharmacology, and drug receptor interactions. A clerkship in clinical pharmacology is offered 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. An average of six lectures a

week and two 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,

Preventive Medicine

CHAIR William Schaffner

PROFESSORS 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

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, 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

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; environmental/occupational health; and special projects in public health. A preceptorship in primary health care and clerkships in applied public health, sexually-transmitted diseases, and family and community medicine are 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 epidemiological method and emphasizes insights for curative and preventive clinical medicine gained through studies of populations. Epidemiological 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 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.

Psychiatry

INTERIM CHAIR George C. Bolian

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, Gerald B. Hickson, Howard S. Kirshner, Peter T. Loosen, Peter R. Martin, Herbert Y. Meltzer, Rudra Prakash, Oakley S. Ray, Howard B. Roback, Elaine Sanders-Bush, Richard C. Shelton, W. Anderson Spickard, Jr.

ADJOINT PROFESSOR Michael Maes

CLINICAL PROFESSORS David Barton, Samuel O. Okpaku, William M. Petrie, S. Steve Snow

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RESEARCH ASSOCIATE PROFESSORS Junii Ichikawa, Dennis E. Schmidt

ASSOCIATE CLINICAL PROFESSORS Charles Corbin, Jr., J. Emmett Dozier, Jr., Linda S. Godleski, Frederick T. Horton, Jr., Ronald F. Kourany, Kent Kyger, J. Kirby Pate, Judith J. Regan, Nicholas Sieveking, C. Richard Treadway, Zia U. Wahid

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RESEARCH ASSISTANT PROFESSORS Randy L. Smith-Barrett, Tomas dePaulis, Mary S. Dietrich, Kirsten L. Haman, James C. Jackson, 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, Craig A. Clark, Michelle Macht Cochran, Jill DeBona, David T. Dodd, Don J. Elazar, Shahzad A. Faroogi, 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, William Stuart Hudson, Jr., Stephen C. Humble, Roy E. Hutton, Raju V. Indukuri, Shahidul Islam, Robert A. Jack, 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, 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, Jackie L. Schimming, Hal C. Schofield, Indu Senapati, Joseph Sharpe,

Hamilton A. Small, Gary S. Solomon, Amanda Sparks-Bushnell, Phyleen Stewart-Ramage, Brian R. Swenson, Tianlai Tang, Lucas S. Van Orden, Rhonda R. Venable, Melinda J. Waldrop, Glenn Todd Webb, Jane R. Weinberg, W. Scott West, Jackson B. White IV, Brad V. Williams, Nat T. Winston

SENIOR ASSOCIATE Karen L. Starr

ASSOCIATES Michael John Cull, Helen E. Hatfield, René A. Love, Lynne L. McFarland, Christopher White

INSTRUCTOR Vatsal G. Thakkar

RESEARCH INSTRUCTOR Michael Bubser

ADJUNCT INSTRUCTOR Helen H. Romfh

CLINICAL INSTRUCTORS Alan J. Lynch, Earl Q. Parrott, William F. Sheridan, Jr.

THE Department of Psychiatry presents a series of lectures 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 children's problems in contemporary society. A number of clerkships, offered to fourth-year students as electives, provide intensive clinical experience in both inpatient and outpatient settings.

Required Courses

PSY-5040. Mind and Medicine. This course provides instruction in behavioral medicine. It stresses the critical importance of understanding and addressing medical illness from a comprehensive or biopsychosocial perspective. Lectures and readings are provided in the following broad areas: (1) the psychological, behavioral and socio-cultural underpinnings of medical illness; (2) the varied responses of patients to illness, including pain and coping; (3) aspects of the patient in the medical context including doctor-patient relationship, adherence, and interviewing; (4) developmental factors that are especially relevant to patient care. The course includes five modules dealing with specific medical illnesses including heart disease, HIV-AIDS, cancer, transplantation, and dementia. These consist of an outside speaker, followed by opportunities for students to interview patients and identify first-hand some of the issues defined by the course. FALL. LaBarbera and Staff.

PSY-5010. Psychiatry. This course acquaints the second year student with the diagnosis, etiology, and treatment of the basic psychiatric disorders. Small groups in which students have the opportunity to interview patients and provide a supplement to the lecture series. FALL. Rodgers.

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
RESEARCH ASSOCIATE PROFESSORS Ling Geng, Sekhar R. Konjeti
ASSISTANT PROFESSORS Anuradha Chakravarthy, Steven R. Goertz, P. Charles Lin, Bo
Lu, Michael Edward Marks, Todd Tenenholz, Ming Teng
RESEARCH ASSISTANT PROFESSOR Eugenia M. Yazlovitskaya
RESEARCH INSTRUCTOR Fen Xia

THE Department of Radiation Oncology introduces the discipline of radiation oncology to medical students during their third- 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, 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, 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, Ronald Curtis Arildsen, Joseph P. Bruner, Jeffrey L. Creasy, Thomas S. Dina, Thomas P. Graham, Jr., Theodore C. Larson III, William H. Martin, Murray J. Mazer, Steven G. Meranze, E. Paul Nance, Jr., Cynthia B. Paschal, David R. Pickens III, Thomas A. Powers, Glynis A. Sacks, Max Israel Shaff, 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., Akilan Arumugham, Joseph M. Aulino, John J. Block, Peter R. Bream, Jr., Kimberly Collis Brennan, M. Candice Burger, Ronald L. Cowan, Bruce M. Damon, Joseph Diggs, Zhaohua Ding, Mark D. Does, Edwin Donnelly, Charles T. Faulkner, Ricardo B. Fonseca, James Christopher Gatenby, Daniel Frank Gochberg, Ewa Grzeszczak, Cheryl R. Herman, Alice A. Hinton, James M. Joers, Farzaneh Sarah Kazimi, Peter M. Lams, Mark A. Lawson, Jackiel R. Mayo, Kevin T. McManus, Henry Moran-Hassan, Victoria L. Morgan, Robert J. Pallow, Todd E. Peterson, Sudha P. Singh, Michael G. Stabin, LeAnn Simmons Stokes, Megan K. Strother, David S. Taber, Curtis A. Wushensky

RESEARCH ASSISTANT PROFESSORS Natasha Grant Deane, Patrizia Riccardi, William R. Riddle

ADJUNCT ASSISTANT PROFESSORS Jaydip Datta, Martin Lepage, Bretton C. Smith ASSISTANT CLINICAL PROFESSORS Jung Ja Hong, Rita M. Kikkawa, Steven B. Knight, Andrew J. Padgug, Anthony S. Wattleworth

ASSOCIATES Jeffrey A. Clanton, George E. Holburn

INSTRUCTORS Shannon Leigh Amonette, Christopher A. Boals, Anna Miller, Jeffrey E.

Tipps, Britton Keith Woodward

RESEARCH INSTRUCTOR Yu Pei Ma

ASSISTANT Mohammad Sib Ansari

THE Department of Radiology and Radiological Sciences introduces the discipline of radiology to medical students during their first-year course in gross anatomy.

The second-year course includes lectures and small group 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 resonance 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 departmental procedures in a didactic lecture 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 neuroradiology. Clerkships in therapeutics are also available.

Required Course

PATH-5020. Introduction to Radiology. Second year. A series of lectures and small group sessions to introduce the student to conventional radiographic methods in the study of various organ systems. Basic principles of imaging and interpretation are emphasized along with indications, contraindications, and risk of the examinations. FALL. Taber and Staff.

Section of Surgical Sciences

CF AIR OF THE SECTION R. Daniel Beauchamp

LE Section of Surgical Sciences is composed of the departme Surgery, Emergency Medicine, Neurosurgery, Oral and Maxillofacial Surgery, Otolaryngology, Pediatric Surgery, Plastic Surgery, Thoracic and Cardiac Surgery, and Urologic Surgery.

These departments contribute to the interdepartmental course in methods in clinical science. Third-year students participate in a clinical clerkship in which they are assigned to the surgical divisions of Vanderbilt Hospital, St. Thomas Hospital, or Veterans Administration Hospital. Third-year surgical clerks also participate in a series of clinical case presentations. 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 neurological surgery, cardiovascular surgery, urology, 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 specialties, 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

General Surgery, Vanderbilt General Surgery, VA General Surgery, St. Thomas Hepatobiliary, Vanderbilt

Subspecialties

Anesthesiology, VA Cardiothoracic, VUH Cardiothoracic, VA Neurosurgery, VUH Ophthalmology, VUH Orthopaedic Surgery, VUH Otolaryngology, 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., H. Keith Johnson, James A. O'Neill, Jr., Robert E. Richie, Douglas H. Riddell, John L. Sawyers

PROFESSORS Naji N. Abumrad, R. Daniel Beauchamp, Robert L. Galloway, Jr., James Richard Goldenring, J. Kenneth Jacobs, John A. Morris, Jr., C. Wright Pinson, William O. Richards, David Shaffer, Kenneth W. Sharp, Steven C. Stain, John Leeman Tarpley RESEARCH PROFESSOR Irene Feurer

ADJUNCT RESEARCH PROFESSOR Harold C. Miller

CLINICAL PROFESSOR Joseph L. Mulherin, Jr.

ASSOCIATE PROFESSORS Ravi S. Chari, J. Stephen Dummer, Jeffrey S. Guy, Michael S. Higgins, Michael D. Holzman, Mark C. Kelley, Addison K. May, Steven G. Meranze, Richard S. Miller, Thomas C. Naslund, William A. Nylander, Jr., Walter E. Smalley, Jr., John Kelly Wright, Jr.

RESEARCH ASSOCIATE PROFESSORS Kareem Jabbour, Phillip E. Williams ADJUNCT ASSOCIATE PROFESSORS 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 Alan Cotton, Pran Krishna Datta, Jeffery B. Dattilo, Jose J. Diaz, Jr., David Lee Gorden, Ana Grau, Oscar D. Guillamondegui, Raul J. Guzman, Alan Joseph Herline, 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, Roberta Lee Muldoon, Asli Ozdas, Alphonse T. Pasipanodya, Marc A. Passman, A. Scott Pearson, John Edward Phay, Kenneth G. Smithson, Alfonso Torquati, Paul E. Wise

RESEARCH ASSISTANT PROFESSORS Leonard Alan Bradshaw, Natasha Grant Deane, Punita Dhawan, 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, A.J. Bethurum, Bernard L. Burgess, Jr., Jonathan A. Cohen, Reginald Coopwood, M. Dorothy Fogerty, Maria E. Frexes-Steed, Richard J. Geer, Robert W. Ikard, Sabi S. D. Kumar, Jennifer B. Meko, Jonathan C. Nesbitt, Timothy J. Ranval, Charles B. Ross, Henry P. Russell, Richard B. Terry SENIOR ASSOCIATE Carolyn Watts

ASSOCIATE Margaret Tarpley

INSTRUCTORS Bryan Richard Collier, Rami Edward Lutfi, Vincente Alonso Mejia, Nikhilesh R. Sekhar

RESEARCH INSTRUCTOR Andrey E. Belous CLINICAL INSTRUCTORS Laura L. Dunbar, Ray Hargreaves ASSISTANTS Mary Fran Hazinski, Leanna Robbins Miller LECTURER Hal E. Houston

Cardiac Surgery

CHAIR John G. Byrne

PROFESSORS EMERITI William C. Alford, Jr., Harvey W. Bender, Jr., William S. Stoney, Jr. PROFESSORS John G. Byrne, Davis C. Drinkwater, Jr.

ASSOCIATE PROFESSOR Karla G. Christian

ASSOCIATE CLINICAL PROFESSOR J. Scott Rankin

ASSISTANT PROFESSORS Rashid M. Ahmad, William H. Frist, James P. Greelish, Yenya Hu. Frank Gerald Scholl

RESEARCH ASSISTANT PROFESSOR Paul A. Chang

ASSISTANT CLINICAL PROFESSOR Michael R. Petracek

INSTRUCTORS Arjun Pennathur, S. Slaman Shah

Neurological Surgery

CHAIR George S. Allen

PROFESSORS George S. Allen, J. Michael Fitzpatrick, Robert L. Galloway, Jr., Noel B. Tulipan

CLINICAL PROFESSORS Cully A. Cobb, Jr., Alan H. Fruin

ASSOCIATE PROFESSORS Lewis S. Blevins, Jr., Theodore C. Larson, Reid Carleton Thompson

RESEARCH ASSOCIATE PROFESSOR 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, Peter E. Konrad, Anita Mahadevan-Jansen, Louise Ann Mawn, Matthew Marshall Pearson, Kenneth G. Smithson, Kyle Derek Weaver

RESEARCH ASSISTANT PROFESSORS Moneeb Ehtesham, Changqing Kao, James D. Stefansic

ADJUNCT ASSISTANT PROFESSORS Rebecca Ann Bachschmidt, Robert J. Weil ASSISTANT CLINICAL PROFESSORS Everette I. Howell, Jr., Scott Crawford Standard CLINICAL INSTRUCTORS Vaughan A. Allen, Arthur Cushman, James W. Hays

Oral and Maxillofacial Surgery

CHAIR Scott B. Boyd

PROFESSORS EMERITI H. David Hall, Elmore Hill

PROFESSORS Scott B. Boyd, Harry L. Legan, Samuel Jay McKenna

ASSOCIATE CLINICAL PROFESSOR James D. Allen

ASSISTANT PROFESSORS 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, 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 CLINICAL INSTRUCTOR George A. Adams, F. William Taylor

Otolaryngology

CHAIR Robert H. Ossoff

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PROFESSORS Fred H. Bess, James A. Duncavage, C. Gary Jackson, James L. Netterville, Robert H. Ossoff

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ASSOCIATE CLINICAL PROFESSOR C. K. Hiranya Gowda

ASSISTANT PROFESSORS Shelagh Ann Cofer, Barbara Jacobson, David M. Kaylie, Robert F. Labadie, William Michael Mullins, Cheryl Lee Rainey-Billante

ADJUNCT ASSISTANT PROFESSOR Mia Alexandra Lee Rosenfeld

ASSISTANT CLINICAL PROFESSORS Brian S. Biesman, Mark A. Clymer, Jerrall P. Crook, William L. Downey, Daniel R. Hightower, Thomas W. Holzen, Michael J. Koriwchak, Warren R. Patterson, Mark E. Reiber, John David Rosdeutscher, Alain N. Sabri, Matthew T. Speyer

CLINICAL ASSOCIATES James F. Benson, Jr., Mitchell K. Schwaber

INSTRUCTORS Sabina Petra Francis, Todd C. Huber, Scharukh Jalisi, Paul T. Russell, Joshua S. Schindler, Cecelia E. Schmalbach, Leopold Kim Yin

RESEARCH INSTRUCTOR Shan Huang

CLINICAL INSTRUCTORS Ronald Cate, Jerrall Paul Crook, Jr., William G. Davis, Mark A. Deaton, Edwin Boyette Emerson, F. Brian Gibson, David M. Kaylie, William Thomas Moore, Robert C. Owen, John D. Witherspoon

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, Edmund Y. Yang

Plastic Surgery

CHAIR R. Bruce Shack
PROFESSORS EMERITI John B. Lynch, Greer Ricketson
PROFESSORS Lillian B. Nanney, R. Bruce Shack
ASSOCIATE PROFESSORS Kevin F. Hagan, Kevin J. Kelly

ASSOCIATE CLINICAL PROFESSORS Jack Fisher, James J. Madden, Jr., Thomas W. Orcutt

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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.

PROFESSOR EMERITUS Charles E. Haines, Jr.

PROFESSORS Mark C. Adams, John W. Brock III, Roger R. Dmochowski, Robert J. Matusik, Bruce J. Roth, Joseph A. Smith, Jr.

ASSOCIATE PROFESSORS Michael S. Cookson, Frederick Kirchner, Jr., Steven G. Meranze, 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, Sam S. Chang, Romano Thomas DeMarco, Simon William Hayward, S. Duke Herrell III, Susan Kasper, Harriette Miles Scarpero RESEARCH ASSISTANT PROFESSOR Kichiya Suzuki

ASSISTANT CLINICAL PROFESSORS Robert B. Barnett, Raoul S. Concepcion, Mark D. Flora, Jenny Jo Franke, David E. Hill, Whitson Lowe, Thomas E. Nesbitt

INSTRUCTORS Emily Elizabeth Cole, Brian M. Levin

CLINICAL INSTRUCTORS Robert B. Faber, John J. Warner

ASSISTANT Todd J. Doran

Interdisciplinary Course Work

5010. Introduction to the Patient: Clinical Professionalism. Introduction to the patient is an integral component of the first-year medical student's professional development at VUSM. Two concurrent courses, Ecology of Health Care and Mind and Medicine, complement the emphasis on professionalism. The focus of Introduction to the Patient is on clinical experience, while Ecology of Health Care emphasizes social and cultural aspects of health care, and Mind and Medicine focuses on psychological components of care.

There will be monthly plenary sessions to coordinate the experiences of all students taking these selectives during the semester. These sessions will provide an educational experience that will address the learning objects of the clinical selective program. There will be a final class exercise during the last plenary session. FALL. Powers

Every first-year Vanderbilt 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. 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 surrounding end of life, national trends in dying, and palliative care symptom management including pain and non-pain related systems, and communication issues. Section Director: Mulder.

IDIS 5070. Plastic Surgery. 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, you are encouraged to consider the plastic surgery selective as part of your educational opportunities. 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.

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.

FIRST TWO YEARS. The 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.

Faculty



Named and Distinguished Professors

- GEORGE S. ALLEN, William F. Meacham Professor of Neurological Surgery
- CARLOS L. ARTEAGA, Ingram Professor of Cancer Research
- DAVID M. BADER, Gladys Parkinson Stahlman Professor of Cardiovascular Research
- H. SCOTT BALDWIN, Katrina Overall McDonald Professor of Pediatrics
- JEFFREY R. BALSER, James Taloe Gwathmy Clinician-Scientist Professor
- R. DANIEL BEAUCHAMP, John Clinton Foshee Distinguished Professor of Surgery; Chair of the Section of Surgical Sciences
- RANDY D. BLAKELY, Allan D. Bass Professor of Pharmacology
- MATTHEW D. BREYER, Catherine McLaughlin Hakin Professor of Medicine
- H. ALEX BROWN, Ingram Associate Professor of Cancer Research
- NANCY W. BROWN, Robert H. Williams Professor of Medicine
- LONNIE S. BURNETT, Frances and John C. Burch Professor of Obstetrics and Gynecology
- JOHN G. BYRNE, William S. Stoney Jr. Professor of Cardiac and Thoracic Surgery
- RICHARD M. CAPRIOLI, Stanley Cohen Professor of Biochemistry
- DAVID P. CARBONE, Ingram Professor of Cancer Research
- GRAHAM F. CARPENTER, Ingram Professor of Cancer Research
- ALAN D. CHERRINGTON, Charles H. Best Professor of Diabetes Research
- LARRY R. CHURCHILL, Ann Geddes Stahlman Professor of Medical Ethics
- ELLEN WRIGHT CLAYTON, Rosalind E. Franklin Professor of Genetics and Health Policy
- ROBERT J. COFFEY, JR., Ingram Professor of Cancer Research
- ROBERT D. COLLINS, John L. Shapiro Professor of Pathology
- DAVID CORTEZ, Ingram Assistant Professor of Cancer Research
- RICHARD D'AQUILA, Addison B. Scoville Professor of Medicine
- STEPHEN NEIL DAVIS, Rudolph H. Kampmeier Professor of Medicine
- SUDHANSU K. DEY, Dorothy Overall Wells Professor of Pediatrics

- ROBERT S. DITTUS, Albert and Bernard Werthan Professor of Medicine
- RAYMOND N. DUBOIS, JR., Benjamin F. Byrd Jr. Professor of Clinical Oncology
- RONALD B. EMESON, Joel G. Hardman Associate Professor of Pharmacology
- ALFRED L. GEORGE, JR., Grant W. Liddle Professor of Medicine
- JAMES RICHARD GOLDENRING, Paul W. Sanger Professor of Experimental Surgery
- JOHN C. GORE, Chancellor's University Professor of Biomedical Engineering and Radiology
- THOMAS P. GRAHAM, JR., Ann and Monroe Carell Jr. Family Professor of Pediatric Cardiology
- DARYL K. GRANNER, Joe C. Davis Professor of Biomedical Science
- JONATHAN L. HAINES, T. H. Morgan Professor of Human Genetics
- HEIDI E. HAMM, Earl W. Sutherland Jr. Professor of Pharmacology
- RAYMOND C. HARRIS, JR., Ann and Roscoe R. Robinson Professor of Nephrology
- JACEK HAWIGER, Oswald T. Avery Distinguished Professor of Microbiology and Immunology
- GEORGE C. HILL, Levi Watkins Jr. Professor for Diversity in Medical Education
- BILLY G. HUDSON, Elliott V. Newman Professor of Medicine
- TADASHI INAGAMI, Stanford Moore Professor of Biochemistry
- J. KENNETH JACOBS, John L. Sawyers Professor of Surgical Sciences
- DAVID H. JOHNSON, Cornelius Abernathy Craig Professor of Medical and Surgical Oncology
- DOUGLAS S. KERNODLE, David E. Rogers Professor of Medicine
- JOHN F. KUTTESCH, JR., Ingram Associate Professor of Cancer Research
- ALEXANDER R. LAWTON III, Edward Claiborne Stahlman Professor of Pediatric Physiology and Cell Metabolism
- ANDREW J. LINK, Ingram Assistant Professor of Cancer Research
- JAMES E. LOYD, Rudy W. Jacobson Professor of Pulmonary Medicine
- LAWRENCE J. MARNETT, Mary Geddes Stahlman Professor of Cancer Research
- LYNN M. MATRISIAN, Ingram Professor of Cancer Research

- HERBERT Y. MELTZER, Bixler/Johnson/Mays Professor of Psychiatry
- RANDOLPH A. MILLER, Donald A. B. and Mary M. Lindberg University Professor of Biomedical Informatics, Medicine and Nursing
- JASON D. MORROW, F. Tremaine Billings Professor of Medicine
- HAROLD L. MOSES, Hortense B. Ingram Professor of Molecular Oncology
- JOHN J. MURRAY, Elizabeth and John Murray Associate Professor of the Asthma, Sinus, and Allergy Program
- ERIC G. NEILSON, Hugh J. Morgan Professor of Medicine
- JOHN H. NEWMAN, Elsa S. Hanigan Professor of Pulmonary Medicine
- JOHN A. OATES, Thomas F. Frist Professor of Medicine
- MARIE-CLAIRE ORGEBIN-CRIST, Lucius E. Burch Professor of Reproductive Physiology and Family Planning
- ROBERT H. OSSOFF, Guy M. Maness Professor of Otolaryngology
- RICHARD M. PEEK, Jr., Mina Cobb Wallace Professor of Gastroenterology and Cancer Prevention
- JOHN A. PHILLIPS III, David T. Karzon Professor of Pediatrics
- JENNIFER A. PIETENPOL, Ingram Professor of Cancer Research
- C. WRIGHT PINSON, H. William Scott Professor of Surgery
- DAVID ROBERTSON, Elton Yates Professor of Autonomic Disorders
- DAN M. RODEN, William Stokes Professor of Experimental Therapeutics
- BRUCE J. ROTH, Paul V. Hamilton, M.D., and Virginia E. Howd Professor of Urologic Oncology

- MACE L. ROTHENBERG, Ingram Professor of Cancer Research
- EARL RULEY, Ingram Professor of Cancer Research
- MARTIN P. SANDLER, Carol D. and Henry P. Pendergrass Professor of Radiology and Radiological Sciences
- SAMUEL A. SANTORO, Dorothy B. and Theodore R. Austin Professor of Pathology
- FRIEDRICH G. SCHUENING, Ingram Professor of Cancer Research
- RICHARD C. SHELTON, James G. Blakemore Professor of Psychiatry
- YU SHYR, Ingram Professor of Cancer Research JEFFREY R. SMITH, Ingram Assistant Professor of Cancer Research
- JOSEPH A. SMITH, JR., William L. Bray Professor of Urologic Surgery
- W. ANDERSON SPICKARD, JR., Chancellor's Professor of Medicine
- SUBRAMANIAM SRIRAM, William C. Weaver Professor of Experimental Neurology
- PAUL STERNBERG, JR., George W. Hale Professor of Ophthalmology and Visual Sciences
- KEVIN STRANGE, John C. Parker Professor of Anesthesiology
- ARNOLD W. STRAUSS, James C. Overall Professor of Pediatrics
- DOUGLAS E. VAUGHAN, C. Sidney Burwell Professor of Medicine
- MICHAEL R. WATERMAN, Natalie Overall Warren Distinguished Professor of Biochemistry
- JAMES A. WHITLOCK, Craig-Weaver Associate Professor of Pediatrics
- WEI ZHENG, Ingram Professor of Cancer Research

Faculty

- ROSEMARY HUNTER AARON, Associate Clinical Professor of Pediatrics B.S. (Emory 1989); M.D. (Duke 1994) [2001]
- ORAN S. AARONSON, Assistant Professor of Neurological Surgery B.Sc. (London 1992); M.B.,B.S. (1997) [2004]
- MATTHEW J. ABBATE, Adjunct Instructor in Medicine
 - A.B. (Brown 1987); M.D. (Tufts 1991) [1995]
- RASUL ABDOLRASULNIA, Research Assistant Professor of Medicine B.S. (Shiraz [Iran] 1961); M.S. (Pahlavi [Iran] 1972); Ph.D. (Tennessee 1978) [1988]
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- JOHN A. WORRELL, Associate Professor of Radiology and Radiological Sciences B.S. (McNeese State 1968); M.D. (Vanderbilt 1971) [1989]
- TAYLOR M. WRAY, Clinical Professor of Medicine
 - B.A. (University of the South 1962); M.D. (Johns Hopkins 1966) [1976]
- KEITH WRENN, Professor of Emergency Medicine; Associate Professor of Medicine B.S. (Baylor 1972); M.D. (Emory 1976) [1992]
- CHRISTOPHER V. E. WRIGHT, Molecular Diabetes Research Professor of Cell and Developmental Biology B.Sc. (Warwick 1980); D.Phil. (Oxford 1984) [1990]
- ELLEN P. WRIGHT, Assistant Clinical Professor of Pathology B.A., M.D. (Vanderbilt 1977, 1981) [1987]
- JOHN E. WRIGHT, Assistant Clinical Professor of Pathology B.S. (Houston 1980); M.D. (Baylor 1984) [2002]

- JOHN KELLY WRIGHT, JR., Associate Professor of Surgery B.S. (Vanderbilt 1977); M.D. (Johns
 - Hopkins 1981) [1990]
- PATTY WALCHAK WRIGHT, Assistant Professor of Medicine B.S. (Western Kentucky 1993); M.D. (Alabama 1997) [2002]
- PETER F. WRIGHT, Professor of Pediatrics; Professor of Microbiology and Immunology; Professor of Pathology; Director, Division of Pediatric Infectious Diseases B.A. (Dartmouth 1964); M.D. (Harvard 1967) [1974]
- SETH W. WRIGHT, Associate Professor of Emergency Medicine M.D. (Michigan 1985) [1989]
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- GUANQING WU, Assistant Professor of Medicine; Assistant Professor of Cell and Developmental Biology M.D. (Nanjing Railway Medical College 1982); Ph.D. (Peking Union Medical School 1991) [2001]
- HUIYUN WU, Assistant in Biostatistics B.S. (Nanchang Health); M.S. (Quindao Medical); Ph.D. (Chinese Academy of Preventive Medicine); M.S. (Southern California) [2004]
- JANE Y. WU, Associate Professor of Pediatrics; Associate Professor of Ophthalmology and Visual Sciences; Associate Professor of Pharmacology; Associate Professor of Cell and Developmental Biology; Investigator, Vanderbilt Kennedy Center for Research on Human Development M.B.,B.S (Shanghai Medical 1986); Ph.D. (Stanford 1991) [2003]
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- KIMBERLEE D. WYCHE-ETHERIDGE, Adjunct Instructor in Pediatrics B.A. (Amherst 1987); M.D. (Massachusetts 1993); M.P.H. (Harvard 2000) [2004]
- KENNETH W. WYMAN, Assistant Professor of Medicine; Clinical Instructor in Nursing B.S. (Murray State 1986); M.D. (Louisville 1990) [2000]
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 M.D. (Sun Yat-Sen Medical 1988); Ph.D.
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 - B.S. (Xiamen [China] 1989); M.S., Ph.D. (Chinese Academy of Medical Science 1992, 1999) [2004]
- FANG YAN, Research Assistant Professor of Pediatrics
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- PATRICIA GALE YANCEY, Research Assistant Professor of Medicine
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- EDMUND Y. YANG, Assistant Professor of Pediatric Surgery A.B. (Cornell 1984); Ph.D., M.D. (Vanderbilt 1992, 1993) [2003]
- ELIZABETH YANG, Associate Professor of Pediatrics; Associate Professor of Cell and Developmental Biology; Associate Professor of Cancer Biology

- A.B., M.S. (Chicago 1980, 1980); M.D., Ph.D. (Stanford 1987, 1987) [1997]
- GENYAN YANG, Research Instructor in Biochemistry
 - M.D. (Shanghai Medical 1993); Ph.D. (North Carolina 2000) [2004]
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- JIN-LONG YANG, Research Instructor in Microbiology and Immunology M.D. (Shanghai Medical 1969) [1998]
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- GRANT R. YEAMAN, Assistant Professor of Obstetrics and Gynecology B.Sc. (Edinburgh 1983); Ph.D. (Dundee 1991) [2001]
- YAJUN YI, Research Assistant Professor of Medicine
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- HUIYONG YIN, Research Instructor in Pharmacology
 - B.S. (Yongi 1992); M.S. (Shanghai Institute of Organic Chemistry 1996); Ph.D. (Vanderbilt 2002) [2003]
- LEOPOLD KIM YIN, Instructor in Otolaryngology
 - B.A. (Harvard 1995); M.D. (Ohio State 1999) [2004]
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- TADAYUKI YONEYAMA, Clinical Instructor in Pediatrics
 - B.S. (Duke 1990); M.D. (Medical College of Virginia 1994) [1998]
- PAMPEE PAUL YOUNG, Assistant Professor of Pathology; Assistant Professor of Medicine
 - B.A. (Rice 1990); Ph.D., M.D. (Texas, Southwestern 1996, 1998) [2003]
- RUTH T. YOUNG, Assistant Professor of Clinical Medicine
 - B.A. (Duke 1972); M.A. (Minnesota 1974); M.D. (Tennessee, Memphis 1977) [1995]
- CHANG YU, Assistant Professor of Biostatistics
 - M.S (Southern Maine 1990); B.S. (University of Science and Technology 1993); M.S. (Minnesota 1995); Ph.D. (Yale 1998) [2004]
- CHAO-LAN YU, Assistant Professor of Molecular Physiology and Biophysics

- B.S. (Taipei Medical 1985); Ph.D. (Michigan 1995) [2001]
- QITAO YU, Research Instructor in Microbiology and Immunology
 - B.S. (Da [China] 1963); Ph.D. (Shanghai Institute 1976) [1995]
- JOHN MATTHEW YUILL, Clinical Instructor in Pediatrics
 - B.S., M.D. (Kentucky 1995, 2000) [2004]
- FIONA ELIZABETH YULL, Assistant Professor of Cancer Biology
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- MICHAIL ZABOIKIN, Research Assistant
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 Institute 1973); Ph.D. (All-Union Cancer
 Research Center 1983) [1999]
- RICHARD M. ZANER, Ann Geddes Stahlman Professor of Medicine, Emeritus B.S. (Houston 1957); M.A., Ph.D. (New School for Social Research 1959, 1961)
- MICHAEL D. ZANOLLI, Associate Clinical Professor of Medicine

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- B.S. (Memphis State 1977); M.D. (Tennessee 1981) [1992]
- EDWARD Y. ZAVALA, Research Assistant Professor of Surgery
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- JOE ZHIZHUANG ZHAO, Associate Professor of Medicine; Associate Professor of Biochemistry
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- HAN ZHAOZONG, Assistant Professor of Radiation Oncology Ph.D. (Institute of Biotechnology [Beijing] 1997) [2004]
- WEI ZHENG, Professor of Medicine; Ingram Professor of Cancer Research M.D., M.P.H. (Shanghai Medical University 1983, 1986); Ph.D. (Johns Hopkins 1992) [2000]
- TAO PETER ZHONG, Assistant Professor of Medicine; Assistant Professor of Cell and Developmental Biology; Assistant Professor of Pharmacology
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- BIN ZHOU, Research Assistant Professor of Pediatrics
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- JING ZHOU, Research Instructor in Microbiology and Immunology

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- ROGER J. ZOOROB, Professor and Chair, Family and Community Medicine at Meharry Medical College; Professor and Program Director for Family Medicine at Vanderbilt
 - B.S., M.D., M.P.H. (American University of Beirut 1981, 1985, 1988) [2004]
- MARY M. ZUTTER, Professor of Pathology; Director, Division of Hematopathology B.S., M.D. (Tulane 1976, 1981) [2003]



Register of Students

First-Year Class

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Laura Kathleen Altom (B.A., West Georgia State) Durvis, MS

Dodie Lynn Arnold (B.S., Xavier) Slidell, LA

Cameron Theodore Atkinson (B.A., Princeton) Mantua, NJ

Anamika Banerji (B.S., Stanford) Arcadia, CA

Ryan Patrick Bayley (B.A., Harvard) Las Vegas, NV

Jo Ellen Bennett (B.A., Belmont) Nashville, TN

Mica Yael Bergman (B.S., Stanford) Pittsburgh, PA

Marschall Brantling Berkes (B.S., Cornell) Fairport, NY

Aline Marguerite Bernard (B.A., Johns Hopkins) Nashville, TN

Elizabeth Bullock Bleecker (B.S., Cornell) Pittsford, NY

Lara Frances Bratcher (B.A., South Carolina [Columbia]) McMinnville, TN

Robert E. Lee Browning (B.S., Central Florida) Arcadia, FL

Heather Renee Burks (B.A., Northwestern) Fort Smith, AR

Darryl Victor Calvo (B.S., Nevada [Reno]) Carson City, NV

Erin Michelle Carney (B.S., Tennessee [Knoxville]) Knoxville, TN Clinton Michael Carroll (B.A., Yale) Clive, IA

Sutin Chen (B.S., Stanford) Palos Verdes Estates, CA,

Nadja Christina Colon (B.S., Vanderbilt) Clarksville, TN

Robert Dedick Connors (B.S., Vanderbilt) Woodstock, NY

Stephen Lewis Cook (B.A., Swarthmore) West Chester, PA

Jillian Peres Copeland (B.A., Harvard) New York, NY

Sarah Elizabeth Creighton (B.A., Northwestern) Grand Marais, MN

Leigh Anne Dageforde (B.S., Wheaton) Louisville, KY

Larry Taylor Davis (B.E., Vanderbilt) Little Rock, AR

Elizabeth Ann Eby (B.S., California [Berkeley]) San Carlos, CA

Kathryn Grace Eby (B.S., Southwestern) Katy, TX

Sheryl Brynne Fleisch (B.S., Vanderbilt) Carmel, IN

Joseph Michael Gentile (B.S., Johns Hopkins) Ann Arbor, MI

Kirsten Inglee GibB.S. (B.S., Georgia Institute of Technology) Woodstock, GA

Aviram Moshe Giladi (B.S., Cornell) West Orange, NJ

Abigail Lewis Gilbert (B.A., Brown) Washington, DC

Jennifer Marian Gloeckner (B.A., Harvard) Moline, IL

Britney Lynne Grayson (B.S., Tulsa) Houston, TX,

Dana Levy Guyer (B.A., Princeton) Bethesda, MD

Randon Trenere Hall (B.S., Rutgers [New Brunswick]) Hainesport, NJ

Alison Jean Hanson (B.A., Colgate) Omaha, NE

Rachel Amanda Harris (B.S., Trinity) Madison, WI

William John Heerman (B.A., Carleton) Park Ridge, IL

Emily Louise Hon (B.S., Stanford) Huntsville, AL

Erin Roxanne Horn (B.A., Maryland [College Park])

Sara Michelle Horvitz (B.A., Williams) Ft. Lauderdale, FL

Aubrey Ann Salvino Hunt (B.S., Vanderbilt) Marietta, GA

Olivia Alana Hutul (B.S., Illinois [Urbana-Champaign]) Naperville, IL

Gerard Pierre Jenkins (B.S., Michigan) Southfield, MI

Walter John Jermakowicz (B.A., Southern Indiana) Evansville, IN

Kathryn Lynn Jongeward (B.A., Dartmouth) Portage, MI

Clayton Allen Kaiser (B.S., Duke) Brentwood, TN

Daniel Walter Kaiser (B.S., Duke) Brentwood, TN

Jacob Marcus Kaufman (B.S., Vanderbilt) Jackson, TN

Andrew Robert Keyes (B.S., Cornell-Endoweds) Ossining, NY

Alaina Marie Kiefer (B.E., Vanderbilt) Cincinnati, OH

Jared Durk Knol (B.S., Calvin) Grand Rapids, MI

Leanne Kolnick (B.A., Texas) Bellaire, TX

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Yaa Aboagyewa Kumah (B.A., Johns Hopkins) Owings Mills, MD

Benjamin John Landis (B.S., Georgia Institute of Technology) Peachtree City, GA

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Sofie Fatima Rahman (B.A., Emory) Snellville, GA,

Paul Quayle Reynolds (B.S., Brigham Young) Las Vegas, NV

Connie Aileen Ritchey (B.S., South Florida) Estill Springs, TN

Deanne Marie Roberts (B.S., Creighton) Woodinville, WA

Benjamin Paul Rosenbaum (B.S., Purdue) Springboro, OH

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Rohan Jayraj Shah (B.E., Vanderbilt) Lawrenceburg, TN

Rebecca Anne Snyder (B.A., Princeton) Greenville, SC

Samuel Leason Snyder (B.S., Georgetown) Occidental, CA

Dmitri Alexander Sofianos (B.S., Vanderbilt) Diamondhead, MS

Adam Earl Stenger (B.S., Notre Dame) Brookeville, IN

Cary Wayne Stimson (B.S., William and Mary) Crystal Beach, FL

Daniel Garvin Stover (B.A., Princeton) Columbus, OH John Ross Stringham (B.S., Vanderbilt) Nashville, TN Paul Ernst Stromberg (B.S., William and Mary) Blackburg, VA Ryan Christopher Tomlinson (B.S., Mississippi) Franklin, TN Bernard Edgar Trappey (B.S., Louisiana State) Kentwood, LA Jan Paul Vobecky (B.S., Georgetown) Lafayette, NJ Igor Vladimirovich Voskresensky (B.A., Kentucky) Lexington, KY Roxanne Jimmy Wadia (B.A., Brown) Farmington, CT David Nathan Young (B.A., Johns Hopkins) Lakeland, FL

Second-Year Class

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Kevin Henry Maas (B.S., California [Berkeley]) Weed, CA

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Renee Lynn Makowski (B.S., United States Military Academy) Madison, AL

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Lynn Ann Martin (B.S., Vanderbilt) Butler, PA

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Daniel Adam Mordes (B.S., Duke) Stuart, FL

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Adam Scott Pitts (D.D.S., Oklahoma Health Sciences Center) Sapulpa, OK

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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

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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

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Myrick Clements Shinall (B.A., Harvard) Atlanta, GA

Christina Michelle Shuman (B.A., Harvard) Clearwater, FL

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Bethaney June Vincent (B.S., George Washington) Kenner, LA

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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

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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

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Elisabeth Dianne Riviello (B.A., Harvard) Santa Barbara, CA
Robin C. C. Ryther (B.S., Missouri) St. Charles, MO
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Michael Anthony Fallucco (B.A., Vanderbilt) Creve Coeur, MO

Rachel Christine Forbes (B.S., Vanderbilt) Clarksville, TN

Lesley Christine French (B.A., Yale) Georgetown, TX

Rachel Leigh Glick (B.S., Emory) Nashville, TN

Mark Gorelik (B.S., Missouri) St. Louis, MO

Tristan Lazaro Gorrindo (B.S., Georgetown) Minden, NV

Michelle Leslie Griffith (B.S., Carnegie-Mellon) Indiana, PA

Jill Marie Guelich (B.A., Princeton) Edina, MN

Cassie Anne Gyuricza (B.A., Princeton) Oakton, VA

Nguyen Khoi Ha (B.S., Oregon) Beaverton, OR

Abigail Hamilton (B.S., Mary Baldwin) Birmingham, MI

David Edward Hamming (B.A., Princeton) Lake Forest, IL

Kent Stuart Handfield (B.S., Virginia) Storrs, CT

Jacob Walter Hathaway (B.A., Carleton) Portland, OR

Travis Scott Henry (B.S., Virginia Polytechnic Institute) Morgantown, WV

Eric Andrew Himmelfarb (B.A., Harvard) Brentwood, TN

David John Hinkle (B.S., Univ. Pittsburgh) Commodore, PA

Lam Hoang (B.S., California [Santa Barbara]) San Jose, CA

Daniel Kayun Hoh (B.S., Maryland [Baltimore]) Potomac, MD

Matthew James Howenstein (B.S., Washington & Lee) Belleville, IL

Plomarz Irani (B.S., Stanford) Santa Clara, CA

Bert Suthers Ivey (B.S., Pennsylvania) Cincinnati, OH

Tamara Christine Jackson (B.A., Arizona) Phoenix, AZ

Katherine Gilleland Joslin (B.S., St. Mary's) Livermore, CA

Kavita Sondh Juneja (B.A., Texas [Austin]) Sugarland, TX

Arvindh Navaratnam Kanagasundram (B.S., Dartmouth) Singapore

Charles William Kanaly (B.A., Harvard) San Diego, CA

Sharon Chee-Wah Kiang (B.S., Maryland) Potomac, MD

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Matthew Adam Kutny (B.A., Brown) Albuquerque, NM

Theresa Ann Larson (B.A., Northwestern) Jamestown, ND

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James Mark Lin (B.A., Chicago) Yorktown Heights, NY

Nicole Renee Longanecker (B.S., Cornell) San Antonio, TX

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Sudave Daniel Mendiratta (B.S., Lee) Cleveland, TN

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Medical Scientist Training Program (M.D./Ph.D.) 2004/2005

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Class of 2004 Residency Assignments

Monika Michelle Bauch Covina, Calif. University of Southern California, Los Angeles, Calif. (Pediatrics) Petra Maria Baudenbacher Aalen, Germany Research Fellow, Vanderbilt Institute for Integrative Biosystem Research and Education Christopher William Baughman Grosse Ile. Mich. Case Western Reserve Metrohealth Medical Center, Cleveland, Ohio (Radiology-Diag-Prashant Shreekant Bhandare Bombay, India University of Pennsylvania Health System/Presbyterian, Philadelphia, Penn. (Anesthe-Nashville. Tenn. Gustav Arthur Blomquist University of Tennessee/Baptist, Nashville, Tenn. (Medicine-Preliminary) University of Texas Medical School, Houston, Texas (Radiology–Diagnostic) Andrea Legath Bowers Moorestown, N.J. Hospital of the University of Pennsylvania, Philadelphia, Penn. (Orthopaedic Surgery) Lauren Anne Boydston Nashville, Tenn. University of Washington Affiliated Hospitals, Seattle, Wash. (Psychiatry) Seth Louis Brindis San Francisco, Calif. Harbor-UCLA Medical Center, Torrance, Calif. (Pediatrics) Laura Ann Brunner Columbus, Ohio Vanderbilt University Medical Center, Nashville, Tenn. (Pediatrics) Grea Bennett Buehler Bethlehem, Penn. Hospital of the University of Pennsylvania, Philadelphia, Penn. (Emergency Medicine) Bianca Margaret Suzanne Camac Atlanta, Ga. Johns Hopkins Hospital, Baltimore, Md. (Pediatrics) Harvard, III. Angela Jo Carbonetti Beth Israel Deaconess Medical Center, Boston, Mass. (Internal Medicine) Christine Margaret Chan Alpharetta, Ga. Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio (Pediatrics) San Francisco, Calif. Jessica Beepo Chan UCLA Medical Center, Los Angeles, Calif. (Pathology) Brian Michael Chin Calhoun, La. University of North Carolina Hospital, Chapel Hill, N.C. (Medicine-Preliminary) University of North Carolina Hospital, Chapel Hill, N.C. (Radiology–Diagnostic) Salt Lake City, Utah Jeanette Ruth Chin Duke University Medical Center, Durham, N.C. (Obstetrics-Gynecology) Philip John Ciampa Reading, Mass. Vanderbilt University Medical Center, Nashville, Tenn. (Internal Medicine-Pediatrics) Amanda Beth Cooper Clarksville, Tenn. Indiana University School of Medicine, Indianapolis, Ind. (General Surgery) Elise Michelle Cornet Great Falls, Va. Massachusetts General Hospital, Boston, Mass. (Pediatrics/Psychiatry) Massachusetts General Hospital, Boston, Mass. (Psychiatry-Adult & Child) Natalie Marie Curcio Hummelstown, Penn. George Washington University, Washington, D.C. (Medicine-Preliminary) Joyeeta G. Dastidar Bellerose North, N.Y. University of Michigan Hospitals, Ann Arbor, Mich. (Internal Medicine/Pediatrics)

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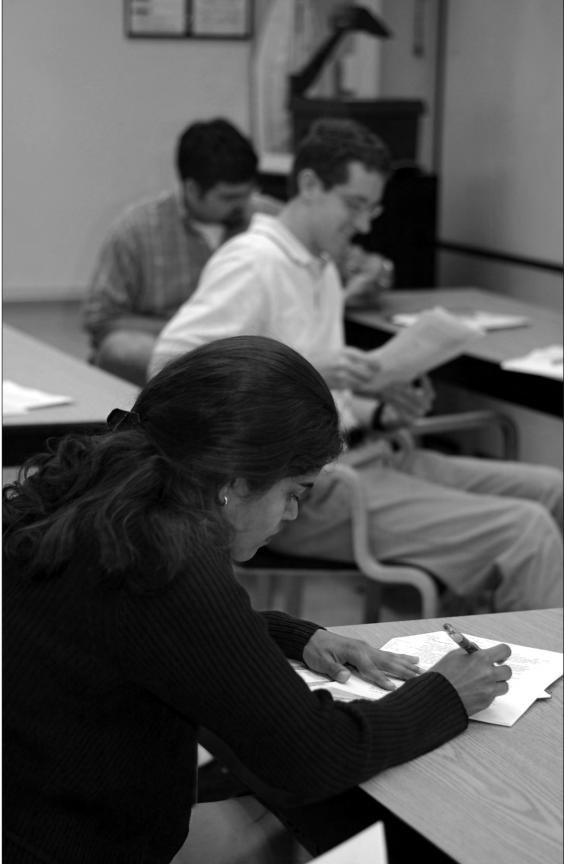
Megan Bryce Laniewicz Edinboro, Penn. University of Michigan Hospitals, Ann Arbor, Mich. (Emergency Medicine) Oliver Bennett Lao San Marino, Calif. University of Washington Affiliated Hospitals, Seattle, Wash. (General Surgery) Ontario Dorian Lau Brooklyn, N.Y. UCLA Medical Center, Los Angeles, Calif. (Otolaryngology) Ferguson, Mo. Steve Wah Leung Duke University Medical Center, Durham, N.C. (Internal Medicine) Alhambra, Calif. Kaiser Permanente, Los Angeles, Calif. (Radiology-Diagnostic) Shihli Bruce Lin Hacienda Heights, Calif. University of Southern California, Los Angeles, Calif. (Internal Medicine) Steve Samlee Liou Greer, S.C. UC San Francisco, East Bay, San Francisco, Calif. (Surgery-Preliminary) Kaiser Permanente, Oakland, Calif. (Otolaryngology) Traverse City, Mich. Brian Allen Lishawa Public Health Outreach, Siloam Family Health Center, Nashville, Tenn. Sharon Lynn Liu Seattle, Wash. UCLA Medical Center, Los Angeles, Calif. (Surgery-Preliminary) UCLA Medical Center, Los Angeles, Calif. (Anesthesiology) Clinton Andrew Marlar Corinth, Miss. Vanderbilt University Medical Center, Nashville, Tenn. (General Surgery) Nashville, Tenn. Mary Hunt Martin Massachusetts General Hospital, Boston, Mass. (Internal Medicine-Pediatrics/Harvard Combined Program) Nima Sayed Massoomi Strongsville, Ohio Vanderbilt University Medical Center, Nashville, Tenn. (Oral Surgery) Cori Anne McClure Klamath Falls, Oreg. Stanford University Programs, Palo Alto, Calif. (Emergency Medicine) Matthew Jacob Mellon Birmingham, Mich. Indiana University School of Medicine, Indianapolis, Ind. (General Surgery) Timothy John Mickus Downers Grove, III. Vanderbilt University Medical Center, Nashville, Tenn. (Surgery-Preliminary) Allegheny General Hospital, Pittsburgh, Penn. (Radiology-Diagnostic) Brentwood, Tenn. Richa Misra University of Washington Affiliated Hospitals, Seattle, Wash. (Internal Medicine) Franklin McRay Mullins Lexington, Ky. Stanford University Programs, Palo Alto, Calif. (Clinical Pathology) Amy C. Morris Musiek Carmel, Ind. Vanderbilt University Medical Center, Nashville, Tenn. (Medicine-Preliminary) Vanderbilt University Medical Center, Nashville, Tenn. (Dermatology) John Paul Norvell Potomac, Md. McGaw Medical Center-Northwestern University, Chicago, III. (Internal Medicine) Erika Lynn Nurmi San Jose, Calif. UCLA Neuropsychiatric Institute, Los Angeles, Calif. (Psychiatry/Research) Timothy Renfrew Oeltmann Franklin, Tenn. Naval Hospital, Pensacola, Fla. (Family Practice) Joyce J. Ou Huntsville, Ala. Hospital of the University of Pennsylvania, Philadelphia, Penn. (Pathology) Tallahassee, Fla. Keshini Chunilal Parbhu Vanderbilt University Medical Center, Nashville, Tenn. (Surgery-Preliminary) Vanderbilt University Medical Center, Nashville, Tenn. (Ophthalmology)

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University of Michigan Hospitals, Ann Arbor, Mich. (Plastic Surgery)





Vanderbilt University Hospital

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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 present extensive medical center complex, housing some of the most renowned medical specialists and the latest in medical technology. Although Vanderbilt is home to Nobel Laureates and is a recognized center for research in all phases of medicine, it retains the compassion and caring that has underscored its philosophy since its inception.

Vanderbilt University Hospital

Designed to accommodate every patient need, the eleven-story hospital places the latest in technology in an aesthetically pleasing environment.

The skill of Vanderbilt medical and nursing teams is maximized in a setting that promotes quality patient care through efficiency of design. Medically related areas are grouped so patients needing specialized care can be served to the best advantage, as in the Neuro Care Unit. The hospital's lower floors house the Emergency Department, serviced by special elevators that convey patients directly to the operating rooms, labor and delivery, ancillary services such as EEG and EKG, and radiology.

Each of the inpatient towers has a nursing core, 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 result of the collaborative efforts 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 care 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 Trauma Center in Middle Tennessee. It is one of five in the state. The twenty-bed Emergency Department provides care for patients of all ages and is the

entry point for 30 percent of hospital admissions. A Pediatric Emergency Department opened in 1997 to offer emergency care and urgent care services in a specialized child/family-focused environment.

LifeFlight

The LifeFlight air medical transport service provides quick access to medical care in emergencies. The rooftop helipad and elevator provides rapid access to the Emergency Department, operative services, and intensive care units. The service operates within a 150-mile radius of Nashville and is staffed by a team of fully certified pilots and specially trained nurses. The 24-hour dedicated dispatch center is located in Medical Center North.

Vanderbilt Children's Hospital

Vanderbilt Children's Hospital is dedicated to meeting the unique health care needs of children, 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 well-being of children, families and the community, the hospital is committed to furthering family-centered 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 children, including primary care, 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 services.
- Conduct research and provide education that contributes to improving medical care and procedures and the future well-being of children 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-renowned academic medical research center, VCH has access to the most advanced care available and is continually searching for more answers to serve our families.

The Vanderbilt Clinic

In 1996, the services of Vanderbilt University Hospital and the Vanderbilt Medical Group were reorganized into patient care centers representing the major categories of care delivered at Vanderbilt. This realignment centers around meeting the needs of our patients, creating a stronger partnership among physicians and managers, and making decisions closer to the point of impact. The patient care centers are as follows, and several are housed in The Vanderbilt Clinic:

Behavioral Health
Cancer
Cardiovascular
Children's
Medicine / Medical Specialties
Ophthalmology
Orthopaedics
Surgical Services
Trauma
Women's Services

Day Surgery Center

Day surgery is ideal for many patients who require relatively brief procedures with limited anesthetic and surgical risks. Such operations are 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 recovery suites and private patient rooms further promote the recovery of the day surgery patient.

An additional ambulatory surgery facility has eight operating rooms, two procedure rooms, and the necessary recovery and holding rooms. This facility enables the Medical Center to meet the growing needs in ambulatory surgery.

Additional Services and Facilities

Burn Center

The Vanderbilt University Burn Center is a twenty-bed specialized facility dedicated solely to the treatment and rehabilitation of burn victims. A highly trained multidisciplinary team of burn specialists provides the latest methods for treating and caring for the burned adult or child. The Burn Center is on the fourth floor of the Round Wing in Medical Center North.

Annette and Irwin Eskind Biomedical Library

The four-story Biomedical Library provides an abundance of work stations where faculty, staff, and students can tap into ever-expanding online information services. The library's Information and Education Services Division provides assistance in all aspects of information retrieval, transfer, and management.

Medical Center East

Medical Center East houses Vanderbilt's Surgical Pavilion, Pediatric Ophthalmology, Perinatal Services, the Eye Center, a portion of the Children's Hospital Outpatient Center, and the Adult Primary Care Center.

The Vanderbilt Bill Wilkerson Center

The Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences was created on July 1, 1997, and comprises the Department of Otolaryngology and the Department of Hearing and Speech Sciences. The center provides integrated care to patients with communication disorders and diseases of the ear, nose, throat, head, and neck. It is one of the few comprehensive treatment centers of its kind, with expertise in clinical medicine, therapeutic intervention, education, and research. A new facility for the center is currently under construction.

Vanderbilt-Ingram Cancer Center

The Vanderbilt-Ingram Cancer Center comprises more than 1,000 doctors, scientists, and nurses throughout the medical center campus. The center includes the Henry-Joyce Cancer Clinic and Clinical Research Center; the A. B. Hancock Jr. Memorial Laboratory; the Francis Williams Preston Laboratories of the T. J. Martell Foundation; the Infusion Center, a state-of-the-art facility for outpatient chemotherapy; several inpatient units within Vanderbilt University Hospital and Vanderbilt Children's Hospital; and more than 100 research labs, as well as eleven high-tech shared research facilities. The center also serves as the hub of an affiliate network that links more than a dozen hospitals in Tennessee, Alabama, and Kentucky.

The Vanderbilt Page-Campbell Heart Institute

The Vanderbilt Page-Campbell Heart Institute was established on January 25, 1999. The Heart Institute is a joint venture between Vanderbilt University Medical Center and the Page-Campbell Cardiology Group. It is a freestanding, state-of-the-art facility where comprehensive, clinical heart care is available to patients in a convenient, outpatient environment. The Heart Institute houses the largest cardiology practice in the state of Tennessee, as well as some of the most highly specialized cardiologists in Middle Tennessee.

The Vanderbilt Psychiatric Hospital

The Vanderbilt Psychiatric Hospital is an 88-bed acute psychiatric hospital. Specialized services are offered to children, adolescents, and adults. The hospital includes specialty units that focus on chemical dependency, affective disorders, posttraumatic stress disorders, and thought disorders. Day programs and an intensive outpatient program are offered.

The Vanderbilt Subacute Care Unit

The Subacute Care Unit is a 27-bed unit that is licensed as a skilled nursing facility. It is designed to care for patients who are no longer in need of the intense level of acute care services in the hospital, but are not ready for care in the home and need more intensive care than is provided in a traditional nursing facility. Subacute care requires the coordinated services of an interdisciplinary team, including physicians, nurses, social workers, and physical, occupational, and speech therapists. Care does not depend heavily on high technology monitoring or complex diagnostic procedures and instead focuses on the rehabilitative potential of the patients.

Kim Dayani Human Performance Center

The Kim Dayani Human Performance Center, housed in a contemporary 25,000-square-foot facility, is dedicated to achieving the balanced, healthy lifestyle that promotes the body's greatest potential. The center conducts educational, treatment, and research programs in health promotion, with special emphasis on exercise, nutrition, weight management, smoking cessation, stress reduction, fitness testing, cardiac and orthopaedic rehabilitation, and rehabilitation from other chronic diseases. Through its internships and institutes, the center also trains health professionals in the fundamentals and applications of wellness and disease prevention. Vanderbilt faculty, staff, and medical students are eligible to use Dayani's full-service fitness center, which includes a swimming pool, indoor track, weight machines, cardiovascular exercise equipment, aerobics classes, and massage therapy.

Vanderbilt Home Care Services

Vanderbilt Home Care offers a variety of home care services catering to the individual needs of patients. Patients can now receive extended care and medical treatment in their own homes. Vanderbilt Home Care offers multidisciplinary team care, coordinated by experienced staff under the direction and supervision of the patient's physician. Services include skilled nursing, occupational and speech therapy, home health aide, and social work. Specialty programs include behavioral health, pediatric, and private duty.

As home care providers, we are caregivers in the patient's own environment, employing all our knowledge, talent, resources, commitment, and

compassion to promote health and independence and to support patients and families through their illnesses. As part of the Vanderbilt University Health Care System, we support its research and educational enterprises.

Rehabilitation Services

The primary objective of Rehabilitation Services is to provide comprehensive medical evaluation and treatment programs that help restore physical, social, and vocational capabilities to people with severe physical or cognitive disabilities. This goal is accomplished by offering physical therapy, occupational therapy, speech therapy, social work, nursing and medicine, training in independence techniques, emotional adjustment, pre-vocational evaluation, and post-discharge planning, which includes close liaison with family and community resources. Vanderbilt University Medical Center has two resources for these services.

Stallworth Rehabilitation Hospital, opened in 1993, is the only free-standing facility of its kind in Middle Tennessee. The 80-bed hospital provides both inpatient and outpatient rehabilitation services to adults and children who have suffered strokes or head or spinal cord injuries, or have other orthopaedic or neurological diseases requiring rehabilitation. The hospital contains the Junior Chamber of Commerce Clinic Bowl Gymnasium, which is specially designed for handicapped sports, including basketball, volleyball, and indoor tennis. The Vanderbilt Center for Multiple Sclerosis is also housed in the hospital.

The Stallworth Rehabilitation Čenter, located in The Vanderbilt Clinic concentrates on the outpatient rehabilitation needs of patients, specializing in treating persons who do not require hospitalization but benefit from such therapeutic interventions as occupational, physical, or speech therapy. This segment of the clinic serves children and adults with orthopaedic, neurological, and post-surgical needs, both acquired and developmental, and works closely with caregivers to increase independence and promote the wellness concept. Specialty services offered only in Middle Tennessee include driver evaluation and training, augmentative communication device assessment and treatment, and wheelchair seating systems evaluation.

Vanderbilt Arthritis and Joint Replacement Center

This multi-specialty research and clinical program for patients with arthritis and rheumatic diseases provides a unique training opportunity for Vanderbilt medical students.

Vanderbilt Sports Medicine Center

Located in McGugin Athletic Center, the Sports Medicine Center is the site of treatments, research, and education for all types of sports-related and orthopaedic injuries in student, amateur, and professional athletes.

Special Programs

In addition to the special services listed throughout this catalog, Vanderbilt University Medical Center supports many programs 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
- Vanderbilt Asthma, Sinus, and Allergy Program (ASAP)
- Vanderbilt Transplant Center
- Vanderbilt Voice Center

Programs in Allied Health

Vanderbilt University Hospital conducts training programs in five technical areas of allied health professions.

Program in Cardiovascular Perfusion Technology

Vanderbilt University Medical Center's Programs in Allied Health, Program in Cardiovascular Perfusion Technology (VUMC-CVPT) requires that, prior to application, the prospective 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 collegelevel 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 areas of study related to perfusion care are provided in the VUMC-CVPT course syllabus.

The general academic requirements for all perfusion education programs 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 Cardiovascular Perfusion Technology Web site at www.mc.vanderbilt.edu/cvpt/courses.htm

Dietetic Internship Program

The Dietetic Internship at Vanderbilt University Medical Center (VUMC) has been an educational program since 1929. It is designed for

the generalist practitioner, providing experience in clinical dietetics, foodservice 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 program is currently granted accreditation 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 Technology is an NAACLS-accredited program designed to provide extensive didactic and practical training in laboratory medicine. The program runs from June to June each year and is composed of a six-month "student laboratory" in a classroom 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 thorough 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 prerequisite courses. These students will receive the baccalaureate degree from their college or university upon successful completion of the program. Students from 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 foreign 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 program 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 accredited college or university. The program prepares graduates for certification as nuclear medicine technologists. Students receive training in atomic and nuclear physics, radiochemistry, patient care and nursing, radiation safety, radiobiology, instrumentation, and computer applications, as well as clinical nuclear medicine (both imaging and in vitro). Students must successfully complete the lecture series and clinical laboratory rotations that are integral parts of the program. Students are 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, Tennessee, and Belmont University in Nashville. In addition, on completion of the program, a certificate will be awarded 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 received by 15 March preceding the expected date of admission. Student selections will be completed by 15 April. Selection is based on scholastic background, references, personal interview, and motivation.

Radiation Therapy Training Program

The mission of the Radiation Therapy Program is to provide a highquality, competency-based professional education through a hospitalbased certificate-granting program, thereby enriching the profession 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 required coursework and graduate within the scheduled time, pass the ARRT exam in radiation therapy, and begin careers as radiation therapists or continue with further education within six months.

Other Health Profession Programs

Internships in Nursing

These six-month training programs are designed to train registered nurses in specialty areas such as operating room nursing, oncology nursing, pediatric intensive care nursing, general medical-surgical nursing, obstetrical nursing, and emergency nursing. Interns are linked with preceptors for clinical training and do guided independent study in their specialty. Upon completion of the internship, registered 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 M.A., M.S., and Ph.D. degrees 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 required for ASHA certification. Practicum sites include the Bill Wilkerson 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, research competency demonstrated through two projects, and the dissertation. Research interests of the faculty include basic and applied psychoacoustics, speech perception and production, child language acquisition and disability, and audiological management.

The division supports a number of research laboratories, including an anechoic chamber, and maintains a MicroVAX II computer and three PDP-11 computers.



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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

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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

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Hematology/Oncology
Pediatric Gastroenterology
Gastroenterology
Nephrology
Pediatric Cardiology
Cardiology
Infectious Diseases
Cardiology
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David Lewis Abramson, M.D.	2	Resident	Psychiatry
Tarek Sami Absi, M.D.	8	Resident	Thoracic Surgery
David Henry Adler, M.D.	3	Resident/Res.	Medicine/Pediatrics
Melody Robin Rice Adler, M.D.	3	Resident	Obstetrics & Gynecology
Hemant Shyam Agarwal, M.B.,B.S.	3	Resident	Pediatrics
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Corby Daniel Baxter, M.D.	2	Resident	General Surgery
Daniel Becker, M.D.	2	Resident	Neurology
Tiffany Tarrant Behrmann, M.D.	1	Resident	Obstetrics & Gynecology
John Conard Belitz, IV, M.D.	3	Resident	Medicine/Pediatrics
Barry Robert Berch, M.D.	3	Resident/Res.	General Surgery

Laura Christine Berg, M.D.	1	Resident	Medicine
Craig Lee Berger, M.D.	1	Resident	Emergency Medicine
Nathan Ralph Berkley, M.D.	2	Resident	Radiology
Priya Narayana Bhat, M.D.	1	Resident	Pediatrics
Frederic Tremaine Billings IV, M.D.	3	Resident	Anesthesiology
Matthew Lee Bilodeau, M.D., Ph.D.	2	Resident	Medicine
Saptarshi Biswas, M.B.,B.S.	1	Resident	General Surgery
•	3	Resident	
Robert John Blair II, M.D.			Emergency Medicine
Katherine Mary Blossfield, M.D.	1	Resident	General Surgery
Jaime Lynne Bohl, M.D.	2	Resident	General Surgery
Syed Asad Hassan Bokhari, M.B.,B.S.	4	Resident	Child Psychiatry
Sara Louise Bomar, M.D.	4	Resident	Radiology
Fouad Ismat Boulos, M.D.	3	Resident	Pathology
Travis Carl Bowles, M.D.	4	Resident	Medicine/Pediatrics
Thomas Lane Bradbury, Jr., M.D.	4	Resident	Orthopaedics
William Simons Bradham, Jr., M.D., Ph.D.	2	Resident	Medicine
Shelli Grace Bregman, D.O.	4	Resident	Pathology
James Thomas Broome, M.D.	2	Resident	General Surgery
Kyle Bertram Brothers, M.D.	1	Resident	Pediatrics
Alyssa Dawn Brown, M.D.	3	Resident	General Surgery
Alyssa Camille Browning, M.D.	1	Resident	Medicine
	4	Resident	Medicine/Pediatrics
Alexander Jeffrey Brunner, M.D.			
Laura Ann Brunner, M.D.	1	Resident	Pediatrics
Jeremy Joseph Brywczynski, M.D.	1	Resident	Emergency Medicine
Christina My-Phuong Bui, M.D.	4	Resident	Ophthalmology & Visual Sci.
Carol Ann Bujak-Aaron, M.D.	3	Resident	Anesthesiology
Robert Stanley Burcham, M.D.	5	Resident	Radiology
Matthew Lee Busam, M.D.	4	Resident	Orthopaedics
Jason Charles Buss, M.D.	3	Resident	Emergency Medicine
Daniel Eduardo Bustos, M.D.	2	Resident	Ophthalmology & Visual Sci.
Jonathan Edward Buzzell, M.D.	2	Resident	Orthopaedics
Thomas Frederick Byars, M.D.	4	Chief Resident	Pediatrics
James Brian Byrd, M.D.	3	Resident	Medicine
William Bellew Byrd III, M.D.	1	Resident	Anesthesiology
Thomas Hargrave Cabell, Jr., M.D.	3	Resident	Medicine
Cory Layne Calendine, M.D.	4	Resident	Orthopaedics
	1	Resident	Psychiatry
Corey Dean Campbell, D.O.	4		
Ladd Mathew Campbell, D.O.		Resident	Anesthesiology
Nicole Diane Canaley, M.D.	4	Resident	Psychiatry
Kimberly Ann Candido, M.D.	2	Resident	Medicine
Christopher Loredo Canlas, M.D.	1	Resident	Anesthesiology
Christopher Don Carey, M.D.	1	Resident	General Surgery
Douglas Eugene Carlan, M.D.	5	Resident	Orthopaedics
Stephen M. Carlson, M.D.	2	Resident	Psychiatry
Cody Garrett Carpenter, M.D.	1	Resident	Pediatrics
Robert Owens Carpenter, M.D.	3	Resident/Res.	General Surgery
Curtis George Carson, M.D.	4	Resident	Anesthesiology
Sean Patrick Casey, M.D.	1	Resident	Medicine
Eric Thomas Castaldo, M.D.	3	Resident	General Surgery
Peter Laurence Castro, M.D.	3	Resident	Anesthesiology
Michael Francis Caucci, M.D.	1	Resident	Psychiatry
Michael Joseph Cestone, D.M.D.	1	Resident	Orthodontics
	1	Resident	Medicine
Clay Hollis Chappell, M.D.			Pathology
James David Chappell, M.D., Ph.D.	4	Resident	
Eric Chen, M.D.	4	Resident	Ophthalmology & Visual Sci.
Valerie Sue Chen, M.D.	4	Resident	Allergy & Immunology
Anton Chen, M.D.	4	Resident	Otolaryngology

Elliott Ho Chen, M.D.	6	Resident	Plastic Surgery
Rebecca Naomi Milstein Cherry, M.D.	3	Resident	Pediatrics
	2	Resident	
Michael W. Chester, M.D.			Anesthesiology
Emily Susan Chism, M.D.	3	Resident	Medicine
William Vincent Chopp, M.D.	1	Resident	Pathology
Philip John Ciampa, Jr., M.D.	1	Resident	Medicine/Pediatrics
Chrystal Grupka Clamp, M.D.	3	Resident	Medicine
Shanelle Clarke, M.D.	1	Resident	Pediatrics
*			
Lori Ann Coburn, M.D.	1	Resident	Medicine
Seth Morris Cohen, M.D.	5	Resident	Otolaryngology
Michael Eugene Cole, M.D.	1	Resident	Obstetrics & Gynecology
John Drew Colfax, M.D.	1	Resident	Emergency Medicine
Richard Adrian Colletti, M.D.	4	Resident	Child Psychiatry
· · · · · · · · · · · · · · · · · · ·	1	Resident	Medicine
Carletta Collins, M.D.			
Irene Frances Connolly, M.D.	5	Resident	Radiation Oncology
John Matthew Conoyer, M.D.	2	Resident	Otolaryngology
Benjamin John Coons, M.D.	1	Resident	General Surgery
Matthew Abraham Corriere, M.D.	4	Resident	General Surgery
Sean Vincent Costabile. M.D.	4	Resident	Anesthesiology
Alissa Anne Craft, M.D.	3	Resident	0,
			Ophthalmology & Visual Sci.
Edward Cody Crase, M.D.	4	Resident	Radiology
Teresa Perry Crase, M.D.	3	Resident	Pediatrics
Deidre Denise Crocker, M.D.	3	Resident	Pediatrics
Jerry Jackson Crook II, M.D., J.D.	2	Resident	Medicine
Joy Elizabeth Crook, M.D.	1	Resident	Emergency Medicine
Jeffrey L. Cutler, M.D.	5	Resident	Otolaryngology
Eric Arthur Dame, M.D.	4	Resident	Radiology
•	1		
Kamisha Adwoa Dantzler, M.D.		Resident	Psychiatry
Adrienne Monique Darhower, M.D.	1	Resident	Emergency Medicine
Melvin Sidney Dassinger III, M.D.	5	Resident	General Surgery
Lana Davenport, M.D.	2	Resident	Psychiatry
Bryan Matthew Davis, M.D.	3	Resident	Otolaryngology
Jennifer Lise Davis, M.D.	2	Resident	Pediatrics
Geoffrey Allen Day, M.D.	1	Resident	Medicine
Amber Lee Degryse, M.D.	i	Resident	Medicine
Jamie Nichole Deis, M.D.	2	Resident	Pediatrics
Kellie Anne Klein DeLozier, M.D.	4	Resident	Obstetrics & Gynecology
Jennifer Rebecca Dempsey, M.D.	3	Resident	Dermatology
Michael Karsten Dengel, M.D.	3	Resident	Neurology
Nancy Marie Marguerite Denizard, M.	D. 3	Resident	Medicine
Joshua Charles Denny, M.D.	2	Resident	Medicine
Nikhil Kishor Desai, D.M.D.	1	Resident	Oral & Maxillofacial Surgery
	3	Resident	0 ,
Clinton James Devin, M.D.			Orthopaedics
Chirag Ashok Dholakia, M.D.	1	Resident	General Surgery
Edward Jeffrey Dinkins, M.D.	2	Resident	Medicine
Paula Herrmann Dinkins, M.D.	2	Resident	Medicine
Danielle Marie Dion, M.D.	2	Resident	Obstetrics & Gynecology
Ben W. Doke, M.D.	4	Resident	Obstetrics & Gynecology
Stephen Joseph Dolinski, D.O.	2	Resident	Psychiatry
Changhong Christine Dong, M.D.	4	Resident	Neurology
Jill Erin Donovan, M.D.	3	Resident	Anesthesiology
Lesly Ann Dossett, M.D.	2	Resident	General Surgery
Valentina Angelova Doumanian, M.D.	3	Resident	Psychiatry
Christine Kane Dove, M.D.	3	Resident	Radiology
Bradley Kent Draper, M.D.	4	Resident	Dermatology
Robert Adams DuBose, M.D.	6	Resident	Thoracic Surgery
Ashley Ann Duckett, M.D.	2	Resident	Medicine/Pediatrics
Normaly Arm Duckett, M.D.	4	HOSIUCIII	Medicine/i edialiics

Nathaniel David Dueker, M.D.	3	Resident	Radiology
John William Duffy III, M.D.	1	Resident	General Surgery
Christopher Laird Dunnahoo, M.D.	3	Resident	Emergency Medicine
Joy Louise Duong, M.D.	3	Resident	Obstetrics & Gynecology
Yvette Bordelon Dzurik, M.D.	3	Resident	Pathology
Truman Markley Earl, M.D.	3	Resident	General Surgery
Joseph Bryan Eby, M.D.	7	Resident	Plastic Surgery
Aaron Wesley Eckhauser, M.D.	3	Resident	General Surgery
Kristin Joy Ehst, M.D.	2	Resident	Medicine/Pediatrics
Gregory Stewart Elliott, M.D.	5	Resident	Radiology
Christopher Randall Ellis, M.D.	8	Chief Resident	Medicine
Adam W. Ellis, M.D.	4	Resident	General Surgery
	4		
Douglas Hinten Emch, M.D.		Resident	Child Psychiatry
Mark Harold Enker, M.D.	1	Resident	Anesthesiology
Benedict Lucky Erho, M.D.	2	Resident	General Surgery
Jack William Erter III, M.D.	1	Resident	Medicine
Eric Eskioglu, M.D.	6	Resident	Neurosurgery
Alicia Pellegrino Ewing, M.D.	1	Resident	Pediatrics
	-		
Gideon Patelford Ewing, M.D.	1	Resident	Medicine
Michael Thomas Falcone, M.D.	1	Resident	General Surgery
John Mark Fannin, M.D.	3	Resident	Anesthesiology
Jeffrey John Fanning, M.D.	2	Resident	Pediatrics
Rachel Evans Farmer, M.D.	1	Resident	Pediatrics
Brenna Michelle Farmer, M.D.	1	Resident	Emergency Medicine
	4		
Scott Binfield Farnham, M.D.		Resident	Urology
John Henry Fasig III, M.D.	2	Resident	Pathology
JimBob Faulk, M.D.	6	Resident	Vascular Surgery
Marina Feldman, M.D.	1	Resident	General Surgery
Sahba Ferdowsi, D.O.	2	Resident	Anesthesiology
Joss Dean Fernandez, M.D.	5	Resident	General Surgery
Daniel Clark Files, M.D.	2	Resident	Medicine
	2	Resident	Medicine
Kathryn Leigh Finch, M.D.			
Christopher Chad Findley, M.D.	2	Resident	Emergency Medicine
Deidre Michels Fish, M.D.	3	Resident	Obstetrics & Gynecology
Gregory Allan Fleming, M.D.	2	Resident	Pediatrics
Nicholas David Fletcher, M.D.	1	Resident	General Surgery
John Robert Floyd II, M.D.	5	Resident	Neurosurgery
Molly Rae Fortner, M.D.	2	Resident	Medicine
Harold Allen Foster, M.D.	5	Resident	General Surgery
,			
John Randolph Foster III, M.D.	2	Resident	Anesthesiology
Susan Marie Fowler, M.D.	3	Resident	Pediatrics
Jonathan William Frederick, D.M.D.	1	Resident	Oral & Maxillofacial Surgery
David Jay Friedman, M.D.	5	Resident	Allergy & Immunology
Brent Keith Frisbie, M.D.	2	Resident	Radiology
Natalie Kay Frost, M.D.	1	Resident	Pediatrics
	8	Chief Resident	
Megan Elizabeth Gaffney, M.D.			Medicine
Kim Frances Mary Gardner, M.D.	2	Resident	Pediatrics
Jeffrey Vernon Garrett, M.D.	5	Resident	General Surgery
Liby John Geevarghese, M.B., B.S.	3	Resident	Psychiatry
Carrie Anna Geisberg, M.D.	2	Resident	Medicine
Giovanna Angela Giannico, M.D.	5	Resident	Pathology
	1	Resident	Medicine/Pediatrics
Maria Christine Gillam, M.D.			
Stephen Kyle Gimple, M.D.	2	Resident	Medicine
Christopher Robert Girasole, M.D.	3	Resident	Urology
Lori Rachel Goldman, M.D.	2	Resident	Pediatrics
Brian Travis Goodman, M.D.	2	Resident	Anesthesiology
Maje Denise Goodwin, M.D.	2	Resident	Pediatrics

Christina Lynn Gordon, M.D.	2	Resident	Emergency Medicine
Joann Stacey Goring, M.D.	2	Resident	Medicine
Kala Cheryl Gray, M.D.	4	Chief Resident	
Keith Demond Gray, M.D.	5	Resident	General Surgery
Joseph Angelo Greco III, M.D.	3	Resident	General Surgery
Cynthia Ann Green, D.D.S.	2	Resident	Orthodontics
Jennifer Kiser Green, M.D.	2	Resident	Medicine/Pediatrics
Kevin Bradley Green, M.D.	5	Resident	Pathology
Michael Linden Green, M.D.	1	Resident	Pediatrics
David Gentry Greer, M.D.	1	Resident	Medicine
Jonay Nicole Grimm, M.D.	4	Resident	Anesthesiology
Ryan Jerrod Grindstaff, M.D., Ph.D.	1	Resident	Anesthesiology
Daniel Aaron Grippo, M.D.	2	Resident	Radiology
Eric Lee Grogan, M.D.	4	Resident	General Surgery
9 /	3	Resident	0 ,
Sara Habibian, M.D.			Obstetrics & Gynecology
Elias Victor Haddad, M.D.	3	Resident	Medicine
Heather Elise Hagerman, M.D.	2	Resident	Anesthesiology
John Wyman Hairr, M.D.	2	Resident	Anesthesiology
Nathan James Hall, M.D.	2	Resident	Medicine
Jennifer Lynne Halpern, M.D.	4	Resident	Orthopaedics
Kelsey Ann Hamilton, M.D.	3	Resident	Pediatrics
David Hall Hammett, M.D.	4	Resident	Neurology
Ernest Chengshun Han, M.D.	1	Resident	Medicine
Erik Nels Hansen, M.D.	3	Resident/Res.	General Surgery
Bradley Allen Hardin, M.D.	2	Resident	Medicine
	_	nesideni	Medicine
Ramanathapura (Hari) Narasimhamurthy	4	Danisland	C = = = = 1 C : = =
Haricharan, M.B.,B.S.	1	Resident	General Surgery
David Hardman Harley, M.D.	5	Resident	Otolaryngology
Khary Oronde Harmon, M.D.	2	Resident	Emergency Medicine
Laura Elizabeth Harper, M.D.	2	Resident	Neurology
Heather Lynn Harris, M.D.	5	Resident	Child Psychiatry
Adam William Harris, M.D.	3	Resident	Radiology
Steven Marshall Harrison, M.D.	1	Resident	Anesthesiology
Andrew James Hart, M.D.	1	Resident	Medicine
Ryan L. Hartman, M.D.	1	Resident	General Surgery
Uzma Hasan, M.D.	1	Resident	Pediatrics
John Matthew Hassan, M.D.	4	Resident	Urology
Susan Rescorla Hata, M.D.	2	Resident	Medicine/Pediatrics
Allison Romayne Hatmaker, M.D.	3	Resident	General Surgery
			General Surgery
Geoffrey Edwin Hayden, M.D.	3	Resident	Emergency Medicine
Benjamin Bailey Hayes, M.D.	2	Resident	Dermatology
Nicole Leigh Heidemann, M.D.	2	Resident	Obstetrics & Gynecology
Scott James Henderson, M.D.	2	Resident	Anesthesiology
Michael John Henry, M.D.	4	Resident	Ophthalmology & Visual Sci.
Chase Richard Herdman, M.D.	3	Resident	Medicine
Jan Andries Herholdt, M.B., Ch.B.	2	Resident	Anesthesiology
Mark Daniel Hicar, M.D., Ph.D.	3	Resident	Pediatrics
Kimberly Brooke Higginbotham, M.D.	3	Resident	Medicine
Eric Michael Hill, M.D.	1	Resident	Medicine
Bradley Christopher Hill, D.O.	4	Resident	Anesthesiology
Matthew David Hill, D.D.S.	1	Resident	Orthodontics
Charles Christian Hill, M.D.	4	Resident	Anesthesiology
William Lyle Hinds III, M.D.	4	Resident	Psychiatry
Timothy John Hinton, M.D.	3	Resident	Medicine
Melissa Eaton Hixson, M.D.	8	Chief Resident	
Lam H. Hoang, D.D.S.	1	Resident	Oral & Maxillofacial Surgery
Katherine Anne Hoeft, M.D.	2	Resident	Pediatrics

Timothy Sean Hofeldt, M.D.	1	Resident	Psychiatry
	4		
Ryan Michael Holthaus, M.D.		Resident	Radiology
Leah Rae Hooker, M.D.	2	Resident	Medicine
Samuel Bennett Slade Hooks III, M.D.	3	Resident	Medicine
Michael Hee Hooper, M.D.	1	Resident	Medicine
Nikolay Petrov Horozov, M.D.	4	Resident	Psychiatry
Joshua Russell Houser, M.D.	2	Resident	Radiology
Martin Leonard Howard, M.D.	5	Resident	Pathology
Robert Long Huang, M.D.	3	Resident	Medicine
Theresa Tien-Ho Huang, M.D.	4	Resident	Radiology
			0,7
Mary Margaret Huizinga, M.D.	2	Resident	Medicine
Martha Elizabeth Huller, M.D.	3	Resident	Radiology
Aaron James Hunt, M.D.	2	Resident	Psychiatry
Helen Wiener Hutcherson, M.D., Ph.D.	3	Resident	Psychiatry
· · · · · · · · · · · · · · · · · · ·	2	Resident	, ,
Carey Kang-lun Hwang, M.D., Ph.D.	_		Medicine
John Walter Idoux, M.D.	1	Resident	Medicine
Rachel Toluope Idowu, M.D.	1	Resident	General Surgery
Rebecca Lynn Isbell, M.D.	2	Resident	Pediatrics
James Michael Isbell, M.D.	2	Resident	General Surgery
,	1	Resident	0,
Meg Elizabeth Jack, M.D.			Emergency Medicine
Sheila Reneé Jeffcoat, M.D.	4	Resident	Anesthesiology
Denise A. John, M.D.	2	Resident	Ophthalmology & Visual Sci.
Cameron Campbell Johnson, M.D.	4	Resident	Ophthalmology & Visual Sci.
Jeffery Chad Johnson, M.D.	2	Resident/Res.	General Surgery
	3		
Christopher Michael Jones, M.D.		Resident/Res.	General Surgery
Emma Morvant Jones, M.D.	3	Resident	Pediatrics
Timothy W. Jones, M.D.	3	Resident	Medicine
Sonya Nicole Jones, M.D.	5	Resident	Child Psychiatry
Clay Travis Jones, M.D.	2	Resident	Pediatrics
Martin Ivanov Jordanov, M.D.	4	Resident	Radiology
•			0,7
Charlie Jung, M.D.	3	Resident	Urology
Sara Marshall Kantrow, M.D.	3	Resident	Dermatology
Edward Matthew Karl, M.D.	2	Resident	Psychiatry
Ryan Matthew Kauffman, M.D.	1	Resident	General Surgery
Melissa Rae Kaufman, M.D.	3	Resident	Urology
•	3	Resident	0,7
Vicki Leigh Keedy, M.D.	0		Medicine
Kristian Reid Kemp, M.D.	3	Resident	Emergency Medicine
Peggy Lynn Kendall, M.D.	8	Resident	Allergy & Immunology
William Brian Kendall, M.D.	3	Resident	Anesthesiology
Jennifer Patton Ker, M.D.	1	Resident	Pediatrics
Terry Robert Ketch, M.D.	3	Resident	Medicine
	1		
Christine Elizabeth Keyes, M.D.		Resident	Emergency Medicine
Kristal Tamara Keys, M.D.	2	Resident	Anesthesiology
Aziz Alexander Khanifar, M.D.	3	Resident	Ophthalmology & Visual Sci.
Laila Khazai, M.D.	1	Resident	Pathology
Heidi Alexandra Kilimanjaro-Davis, M.D.	4	Resident	Psychiatry
	4	Resident	Anesthesiology
Shannon Robert Kilkelly, D.O.			
Ki Beom Kim, D.D.S.	3	Resident	Orthodontics
Dong Wook Kim, M.D., Ph.D.	4	Resident	Radiation Oncology
Kelly Fair King, M.D.	1	Resident	Pediatrics
Matthew Sidney King, M.D.	1	Resident	Medicine
Kelly Ann Kirby Ortega, M.D.	1	Resident	Anesthesiology
			0,7
Sarah Ann Klizas, M.D.	3	Resident	Medicine
Leise Rose Knoepp, M.D.	1	Resident	Obstetrics & Gynecology
Alexandre Atanassov Koumtchev, M.D.	2	Resident	Psychiatry
Bradley Todd Kovach, M.D.	3	Resident	Dermatology
Mark Mendel Krakauer, M.D.	1	Resident	Medicine/Pediatrics
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Manickam Krishnamurthy, M.D.	3	Resident	Emergency Medicine
Ari Yaakov Krug, D.M.D.	2	Resident	Orthodontics
Rachel LaMar Kurian, M.D.	3	Resident	
· · · · · · · · · · · · · · · · · · ·			Obstetrics & Gynecology
Benji Thomas Kurian, M.D.	3	Resident	Psychiatry
William Bailey Kurtz II, M.D.	5	Resident	Orthopaedics
Christopher Robert Kuzniak, M.D.	2	Resident	General Surgery
Soheil Saul Lahijani, M.D.	6	Resident	Plastic Surgery
Philip Dwayne Lanham, M.D.	5	Resident	Radiology
Truc Minh Le, M.D.	3	Resident	Pediatrics
Richard Lindsey Lebow, M.D.	1	Resident	General Surgery
Carla Tucker Lee, M.D., Ph.D.	4	Resident	Dermatology
Christopher David Lee, M.D.	1	Resident	Medicine
George S. Lee, D.D.S., M.D.	4	Resident	Oral & Maxillofacial Surgery
Jaclyn Mary Lekse, M.D.	3	Resident	Ophthalmology & Visual Sci.
Kristina Jo Leland, M.D.	2	Resident	Pathology
Andrew Jacob Lenneman, M.D.	1	Resident	Medicine
Alejandro Leon, M.D.	2	Resident	
•			Ophthalmology & Visual Sci.
Joe Preston Lester, D.O.	3	Resident	Anesthesiology
Reagan Rochelle Leverett, M.D.	2	Resident	Radiology
Adele Maurer Lewis, M.D.	4	Resident	Pathology
Charles Matthew Leys, M.D.	3	Resident/Res.	General Surgery
Eric John Lindstrom, M.D.	5	Resident	Radiology
Catherine Russell Linn, M.D.	3	Resident	Medicine
Jennifer Starr Listerman, M.D.	1	Resident	Medicine
Mary Caroline Long, M.D.	2	Resident	Pediatrics
William Thomas Lowrance, M.D.	2	Resident	Urology
Bryan R. Ludwig, M.D.	2	Resident	Neurology
Michael Lyaker, M.D.	4	Resident	Anesthesiology
Robert Andrew Magnussen, M.D.	1	Resident	General Surgery
Kamran Mahalati, M.D.	5	Resident	General Surgery
Joel Patrick Maier, M.D.	7	Resident	Plastic Surgery
Dee Malkerneker, M.D.	2	Resident	Nuclear Medicine
Brad Edward Maltz, M.D.	2	Resident	Medicine
Murali Krishna Mamidi, M.D.	4	Resident	Anesthesiology
Paul C. Mann, M.D.	1	Resident	Pediatrics
Clinton Andrew Marlar, M.D.	1	Resident	General Surgery
Annis Morison Marney, M.D.	2	Resident	Medicine
Karen Elizabeth Martin, M.D.	2	Resident	Medicine
Jason Brantley Martin, M.D.	3	Resident	Medicine
Stephen Edward Mason, M.D.	3	Resident	Pathology
William Jeffrey Mason, M.D.	2	Resident	Medicine
Laurance Edward Mason Jr. M.D.			
Lawrence Edward Mason, Jr., M.D.	4	Resident	Radiology
Nima S. Massoomi, D.M.D., M.D.	1	Resident	General Surgery
Wade Bolton May, M.D.	2	Resident	Medicine
Juli Anne McCay, M.D.	5	Resident	Pathology
Sara Ann McClintock-Treep, M.D.	2	Resident	Pathology
Nicole Streiff McCoin, M.D.	2	Resident	Emergency Medicine
Thomas Gerald McConnell, M.D.	2	Resident	Pathology
Robert Daryl McCray, M.D.	2	Resident	Medicine
	_		
Stuart McGrane, M.B., Ch.B.	1	Resident	Anesthesiology
Lusanne Lilly McKenzie, M.D.	3	Resident	Psychiatry
Jared John McKinney, M.D.	2	Resident	Emergency Medicine
William Earl Mcrae III, M.D.	3	Resident	Anesthesiology
Karen Schilf Meredith, M.D.	3	Resident	Pediatrics
Louis Gregory Meriwether, Jr., M.D.	3	Resident	Medicine
Timothy John Mickus, M.D.	1	Resident	General Surgery
Michael Robert Milam, M.D.	4	Resident	Obstetrics & Gynecology
Who had Frobott Whath, W.D.	-	1100100111	Section a dynostingy

Rebecca Ashley Milam, M.D.	4	Resident	Radiology
Eva Kathryn Miller, M.D.	3	Resident	Pediatrics
Matthew Scott Miller, M.D.	3	Resident	Medicine/Pediatrics
•	1	Resident	
Andrew John Miller, D.D.S.			Oral & Maxillofacial Surgery
Derek Edd Moore, M.D.	4	Resident	General Surgery
Sean Ryan Moore, M.D.	2	Resident	Pediatrics
Daniel Jensen Moore, M.D., Ph.D.	1	Resident	Pediatrics
Aaron Russell Morrison, M.D.	1	Resident	General Surgery
Nick Samuel Morrow, D.M.D.	3	Resident	Oral & Maxillofacial Surgery
Jeffrey Scott Mueller, D.O.	5	Resident	Pathology
Kenneth Lynn Muldrew, M.D.	4	Resident	Pathology
Gregory William Munson, M.D.	2	Resident	Medicine
Nicole Elizabeth Muscato, M.D.	3	Resident	Pathology
Amy C. Morris Musiek, M.D.	1	Resident	Medicine
Roger J. Nagy, M.D.	6	Resident	Surgical Critical Care
Andrew Charles Neck, M.D.	3	Resident	Medicine/Pediatrics
Bradford Alexander Nelson, M.D.	4	Resident	Urology
Bryce Allen Nelson, M.D., Ph.D.	2	Resident	Pediatrics
Jonathan Christopher Newton, M.D., Ph.E		Resident	Anesthesiology
The state of the s	2	Resident	0,
Alpa Manchandia Nick, M.D.			Obstetrics & Gynecology
Wenying Niu, M.D.	4	Resident	Anesthesiology
Sharon Alicia Norman, M.D.	4	Resident	Obstetrics & Gynecology
John Michael Norvell, M.D.	4	Resident	Allergy & Immunology
Sara Melissa Norvell, M.D.	1	Resident	Anesthesiology
Daniel Michael Oberer, M.D.	5	Resident	Neurosurgery
Jeffrey Lawrence O'Connor, M.D.	5	Resident	Urology
Matthew R. O'Malley, M.D.	4	Resident	Otolaryngology
Jose Agustin Ortega III, M.D.	3	Resident	Medicine
0 0	3	Resident	
Melissa Rennella Ortega, M.D.			Neurology
Kenneth John Ortiz, M.D.	6	Resident	Plastic Surgery
Daniel Eric Oxford, D.D.S.	2	Resident	Orthodontics
Jason Ricklin Pack, M.D.	3	Resident	Radiology
Keshini Chunilal Parbhu, M.D.	1	Resident	General Surgery
Dipen Jaysukhlal Parekh, M.B.B.S., M.Ch	. 5	Resident	Urology
Christopher Louis Paris, M.D.	1	Resident	Medicine
Anup D. Patel, M.D.	4	Resident	Child Neurology
Ashish Shashikant Patel, D.M.D.	1	Resident	General Surgery
David Karl Patzer, M.D.	5	Resident	Addiction Psychiatry
	3	Resident	Pediatrics
Edilgrace Angeles Pecson, M.D.			
Meghan Jane Perkins, M.D.	1	Resident	Pediatrics
April Christine Pettit, M.D.	1	Resident	Medicine
Fenna Tanner Phibbs, M.D.	3	Resident	Neurology
Erin Lea Phillips, M.D.	2	Resident	Neurology
Scott Ashley Phillips, M.D.	3	Resident	Medicine
Paul Douglas Pickering, M.D.	4	Resident	Obstetrics & Gynecology
Ketsia Bersy Pierre, M.D.	2	Resident	General Surgery
Tunghi May Pini, M.D.	2	Resident	Medicine
Clovis Warren Pitchford, M.D.	1	Resident	Pathology
Elizabeth Battle Pitchford, M.D.	1	Resident	0,
•			Pediatrics
Adam Scott Pitts, D.D.S.	1	Resident	Oral & Maxillofacial Surgery
Kimberly Renee Plourde, M.D.	1	Resident	Emergency Medicine
Gregory Gerald Polkowski II, M.D.	1	Resident	General Surgery
Jason Edward Pope, M.D.	1	Resident	Anesthesiology
Stan Lamar Pope, M.D.	6	Resident	Radiology
Diego Porras, M.D.	3	Resident	Pediatrics
Christopher Carroll Potts, D.M.D.	3	Resident	Orthodontics
Benjamin Kuttikatt Poulose, M.D.	3	Resident/Res.	General Surgery
Donjamin Nuttinatt i Oulose, M.D.	J	i icsidelių i 168.	General Surgery

Tracie Michelle Prevatte, D.M.D. 1 Resident Naval Ellen Ragheb-Mueller, D.O., Ph.D. 2 Resident Anesthesiology Deepak Raja, M.D. 3 Resident Anesthesiology Lindsay Mallard Rauth, M.D. 3 Resident Anesthesiology Lindsay Mallard Rauth, M.D. 3 Resident Anesthesiology Arnab Ray, M.D. 4 Resident Anesthesiology Perent Neil Rexer, M.D., Ph.D. 2 Resident Anesthesiology Robert Agriculture Arnab Ray, M.D. 4 Resident Anesthesiology Robert Agriculture Anesthesiology Robert Agriculture Anesthesiology Resident Anesthesiology Robert Agriculture				
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RayÁnn Marie Ralls, M.D. Indsay Mallard Rauth, M.D. Thomas Patrick Rich M.D. Thomas Patrick Ric		2	Resident	Ophthalmology & Visual Sci
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Arnab Ray, M.D. Adhikari Varaprasad Reddy, M.D. Adhikari Varaprasad Reddy, M.D. Bresident Adhikari Varaprasad Reddy, M.D. Bresident Adhikari Varaprasad Reddy, M.D. Bresident Austin Taylor Rich, M.D. Bobert Barrett Richling, M.D. Bresident Anesthesiology Bresident Anesthe	Thomas Patrick Rauth M.D.	3	Resident	General Surgery
Adhikari Varaprasad Reddy, M.D. Brent Neil Rexer, M.D., Ph.D. Bresident Anesthesiology Robert Barrett Richling, M.D. Besident Anesthesiology Resident Anesthesiology Anesthesiology Derek Aron Riebau, M.D. Besident Anesthesiology Anestident Anesthesiology Anesthe				
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Austin Taylor Rich, M.D. Robert Barrett Richling, M.D. Robert Barrett Richling, M.D. Porbert Barrett Richling, M.D. Porbert Aron Riebau, M.D. Porbert Riviello, M.D. Porbert Resident Resident Resident Pathology Resident	Brent Neil Rever M.D. Ph.D.	2	Resident	Medicine
Robert Barrett Richling, M.D. Holly Denise Richter, M.D. Holly Resident Holly Denise Richter, M.D. Holly Resident Holly Denise Richter, M.D. Holly Resident				
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Holly Denise Richter, M.D. Derek Aron Riebau, M.D. William Patrick Riordan, Jr., M.D. Resident Residen	Robert Barrett Richling, M.D.	3	Resident	Emergency Medicine
Derék Aron Riebau, M.D. William Patrick Riordan, Jr., M.D. Patricia Sizemore Ritch, M.D., Ph.D. Resident Robert Riviello, M.D. Christopher William Robb, M.D., Ph.D. Amy Catherine Robertson, M.D. Amy Catherine Robertson, M.D. Peter Gordon Robertson Radiology Peter Gordon Robertson, M.D. Peter Gordon Robert	Holly Denise Richter M.D.	2	Resident	
William Patrick Riordan, Jr., M.D. 6 Resident Patricia Sizemore Ritch, M.D., Ph.D. 1 Resident General Surgery Christopher William Robb, M.D., Ph.D. 2 Resident General Surgery Developer William Robb, M.D., Ph.D. 3 Resident Anesthesiology David Anthony Robertson, M.D. 1 Resident Medicine Peter Gordon Robertson, M.D. 2 Resident Medicine Peter Gordon Robertson, M.D. 2 Resident Medicine Peter Gordon Robertson, M.D. 2 Resident Medicine Ricardo Jesus Rodriguez, D.D.S., M.D. 2 Resident General Surgery Jeremy Brian Rogers, M.D. 1 Resident General Surgery Jeremy Brian Rogers, M.D. 2 Resident General Surgery Jeremy Brian Rogers, M.D. 3 Resident General Surgery David Henry Rotter, M.D. 2 Resident Radiology David Henry Rotter, M.D. 2 Resident Resident Radiology Stephan Russ, M.D. 2 Resident Pathology Urology Stephan Russ, M.D. 2 Resident Pathology Stephan Russ, M.D. 3 Resident Pathology Stephan Russ, M.D. 3 Resident General Surgery Charles Phillip Samenow, M.D., M.P.H. 2 Resident General Surgery Charles Phillip Samenow, M.D., M.P.H. 2 Resident General Surgery Charles Phillip Samenow, M.D., M.P.H. 2 Resident General Surgery Charles Phillip Samenow, M.D., M.P.H. 2 Resident General Surgery Charles Phillip Samenow, M.D., M.P.H. 2 Resident Otolaryngology Amy Michele Schmitt, M.D. 4 Resident General Surgery Charles Robert Robert Resident General Surgery Rott Alan Schueseler, D.D.S. 3 Resident General Surgery Scott Alan Schueseler, D.D.S. 4 Resident General Surgery Scott Alan Schueseler, D.D.S. 4 Resident General Surgery Resident Resident General Surgery Resident Resident Resident Resident Resident Resident Neurology Resident Resident Resident Resident R				0,7
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Robert Riviello, M.D. Christopher William Robb, M.D., Ph.D. 2 Resident Amy Catherine Robertson, M.D. 3 Resident Anesthesiology David Anthony Robertson, M.D. 1 Resident Medicine Reter Gordon Robertson, M.D. 2 Resident Medicine Resident General Surgery Resident General Surgery Resident Medicine Resident Medicine Resident General Surgery Resident Medicine Resident General Surgery Resident Radiology American Resident Resident Resident Resident Resident General Surgery Resident Resident Resident Resident Resident General Surgery Resident Resident Resident Resident General Surgery Resident Resident Resident General Surgery Resident Resident Resident General Surgery Resident R	William Patrick Riordan, Jr., M.D.	6	Resident	Surgical Critical Care
Robert Riviello, M.D. Christopher William Robb, M.D., Ph.D. 2 Resident Amy Catherine Robertson, M.D. 3 Resident Anesthesiology David Anthony Robertson, M.D. 1 Resident Medicine Reter Gordon Robertson, M.D. 2 Resident Medicine Resident General Surgery Resident General Surgery Resident Medicine Resident Medicine Resident General Surgery Resident Medicine Resident General Surgery Resident Radiology American Resident Resident Resident Resident Resident General Surgery Resident Resident Resident Resident Resident General Surgery Resident Resident Resident Resident General Surgery Resident Resident Resident General Surgery Resident Resident Resident General Surgery Resident R	Patricia Sizemore Ritch M.D. Ph.D.	1	Resident	Pediatrics
Christopher William Robb, M.D., Ph.D. 2 Resident Anesthesiology Amy Catherine Robertson, M.D. 1 Resident Medicine Peter Gordon Robertson, M.D. 2 Resident Medicine Ricardo Jesus Rodriguez, D.D.S., M.D. 2 Resident General Surgery Adrian Ofir Rodriguez, M.D. 1 Resident General Surgery Jeremy Brian Rogers, M.D. 1 Resident General Surgery Sarah Louise Rohde, M.D. 1 Resident General Surgery Sarah Louise Rohde, M.D. 1 Resident General Surgery Christopher D. Roman, M.D. 4 Resident Radiology Erin Renee Rudzinski, M.D. 2 Resident Radiology David Henry Rotter, M.D. 2 Resident Residen				
Amy Catherine Robertson, M.D. David Anthony Robertson, M.D. Peter Gordon Robertson, M.D. Resident R				0 ,
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David Anthony Robertson, M.D. Peter Gordon Robertson, M.D. Peter W. Peter Gordon Robertson, M.D. Peter W. Peter Gordon Robertson, M.D. Peter W. Peter Gordon Resident Peter Gordon Robertson, M.D. Peter W. Pesident Peter Gordon Robertson, M.D. Pesident Pesident Resident Pediatory Peter W. Pesident Pesident Peter Gordon Robertson, M.D. Peter W. Pesident Nuclear Medicine Nuclear Medicine Nuclear Medicine Pediatrics Pediatrics Pediatrics Pediatrics Pediatrics Pediatrics Pesident Pediatrics Pediatrics Pediatrics Pediatrics Pediatrics Pesident Pediatrics Pediatric	Amy Catherine Robertson, M.D.	3	Resident	Anesthesiology
Peter Gordon Robertson, M.D. Ricardo Jesus Rodriguez, D.D.S., M.D. Adrian Ofir Rodriguez, M.D. Jeremy Brian Rogers, M.D. 1 Resident General Surgery Sarah Louise Rohde, M.D. 1 Resident General Surgery Sarah Louise Rohde, M.D. 1 Resident General Surgery Christopher D. Roman, M.D. 2 Resident General Surgery Sarah Louise Rohde, M.D. 5 Resident General Surgery Christopher D. Roman, M.D. 2 Resident Radiology Erin Renee Rudzinski, M.D. 2 Resident Radiology Stephan Russ, M.D. 2 Resident Pathology Jon Andrew Rumohr, M.D. 2 Resident General Surgery Resident Radiology Stephan Russ, M.D. 2 Resident General Surgery Don Andrew Rumohr, M.D. 2 Resident General Surgery Resident Pathology Jon Andrew Rumohr, M.D. 2 Resident General Surgery Resident General Surgery Resident General Surgery Resident General Surgery Oral & Maxillofacial Surgery Resident General Surgery Resident Oral & Maxillofacial Surgery Resident General Surger				
Ricardo Jesus Rodriguez, D.D.S., M.D. 2 Resident Dermatology Jeremy Brian Rogers, M.D. 1 Resident General Surgery Sarah Louise Rohde, M.D. 1 Resident General Surgery Christopher D. Roman, M.D. 4 Resident General Surgery Christopher D. Roman, M.D. 5 Resident Radiology David Henry Rotter, M.D. 5 Resident Radiology Brin Renee Rudzinski, M.D. 2 Resident Pathology Jon Andrew Rumohr, M.D. 2 Resident Urology Stephan Russ, M.D. 2 Resident General Surgery Jon Andrew Rumohr, M.D. 2 Resident General Surgery Stephan Russ, M.D. 2 Resident General Surgery Stephan Russ, M.D. 3 Resident General Surgery Charles Phillip Samenow, M.D., M.P.H. 2 Resident General Surgery Charles Phillip Samenow, M.D., M.P.H. 2 Resident General Surgery Charles Phillip Samenow, M.D. 3 Resident Oral & Maxillofacial Surgery Charles Phillip Samenow, M.D. 4 Resident Otolaryngology Andrew Ernest Scanga, M.D. 3 Resident Otolaryngology Andrew Ernest Scanga, M.D. 4 Resident Medicine Adam Troy Schaefer, D.M.D. 1 Resident Oral & Maxillofacial Surgery Carl R. Schmidt, M.D. 4 Resident General Surgery Carl R. Schmidt, M.D. 4 Resident General Surgery Carl R. Schmidt, M.D. 4 Resident General Surgery Scott Alan Schuessler, D.D.S. 3 Resident Orthopaedics Jason John Schrager, M.D. 4 Resident Orthopaedics Warren H. Scott, M.D. 4 Resident Orthopaedics Warren H. Scott, M.D. 4 Resident Orthopaedics James Felder Selph, M.D. 3 Resident Orthopaedics James Felder Selph, M.D. 4 Resident Resident Neurology Carla Marin Sevin, M.D. 7 Resident Pathology Libby Lovett Shadinger, M.D. 4 Resident Re				
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Jeremy Brian Rogers, M.D. Sarah Louise Rohde, M.D. Christopher D. Roman, M.D. Avid Henry Rotter, M.D. Sesident Sesident Radiology Brin Renee Rudzinski, M.D. Jon Andrew Rumohr, M.D. Stephan Russ, M.D. Jon Gregory Sabol, D.D.S., M.D. Charles Phillip Samenow, M.D., M.P.H. Gabriela Beatriz Sanchez, M.D. Jander Ernest Scanga, M.D. Adam Troy Schaefer, D.M.D. Carl R. Schmidt, M.D. Jonathan G.Schoenecker, M.D., Ph.D. Jonathan G.Schoenecker, M.D. Scott Alan Schuessler, M.D. Samon John Schrager, M.D. Samon John Schrage	Ricardo Jesus Rodriguez, D.D.S., M.D.	2	Resident	General Surgery
Jeremy Brian Rogers, M.D. Sarah Louise Rohde, M.D. Christopher D. Roman, M.D. Avid Henry Rotter, M.D. Sesident Sesident Radiology Brin Renee Rudzinski, M.D. Jon Andrew Rumohr, M.D. Stephan Russ, M.D. Jon Gregory Sabol, D.D.S., M.D. Charles Phillip Samenow, M.D., M.P.H. Gabriela Beatriz Sanchez, M.D. Jander Ernest Scanga, M.D. Adam Troy Schaefer, D.M.D. Carl R. Schmidt, M.D. Jonathan G.Schoenecker, M.D., Ph.D. Jonathan G.Schoenecker, M.D. Scott Alan Schuessler, M.D. Samon John Schrager, M.D. Samon John Schrage	Adrian Ofir Rodriguez M D	2	Resident	Dermatology
Sarah Louise Rohde, M.D. Christopher D. Roman, M.D. All Resident Christopher D. Roman, M.D. Sesident Radiology David Henry Rotter, M.D. Sesident Radiology Stern Renee Rudzinski, M.D. Resident Radiology Stephan Russ, M.D. Resident Radiology Stephan Russ, M.D. Resident Resident Radiology Stephan Russ, M.D. Resident Resident Resident Radiology Stephan Russ, M.D. Resident Resident Resident Radiology Stephan Russ, M.D. Resident Robert Thomason Russell, M.D. Resident Resid				0,7
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David Henry Rotter, M.D. Frin Renee Rudzinski, M.D. Jon Andrew Rumohr, M.D. Stephan Russ, M.D. Resident Resident Resident Urology Resident Resident	Christopher D. Roman, M.D.	4	Resident	Radiology
Erin Renee Rudzinski, M.D. Jon Andrew Rumohr, M.D. Stephan Russ, M.D. Robert Thomason Russell, M.D. Jon Gregory Sabol, D.D.S., M.D. Gabriela Beatriz Sanchez, M.D. Adam Troy Schaefer, D.M.D. Jon Greschmitt, M.D. Amy Michele Schmitt, M.D. Josch Alan Schoenecker, M.D. Jason John Schrager, M.D. Jason John Schrager, M.D. Jason John Schrager, M.D. Arren H. Scott, M.D. Particia Lee Scott, M.D. James Felder Selph, M.D. James Felder Selph Selpherd, M.D. James Feld	David Henry Rotter M.D.	5	Resident	Radiology
Jon Andrew Rumohr, M.D. Stephan Russ, M.D. Stephan Russ, M.D. Resident R				0,7
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Robert Thomason Russell, M.D. Jon Gregory Sabol, D.D.S., M.D. Gregory Sabol, D.D.S., M.D. Gabriela Beatriz Sanchez, M.D. Sanchez, M.D. Sanchez Scanga, M.D.	Stephan Russ, M.D.	2	Resident	Emergency Medicine
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Julie Irene Thwing, M.D.	3	Resident	Medicine/Pediatrics
	2	Resident	
			Urology
Stephanie Jeanne Todd, M.D.	3	Resident	Pediatrics
Rachel Celeste Toney, M.D.	2	Resident	Medicine
Jessica Torrente, M.D.	2	Resident	Radiology
Sherstin Gabrielle Truitt, M.D.	3	Resident	Medicine/Pediatrics
Athanasios Christos Tsiatis, M.D.	1	Resident	Pathology
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Carson Robert Turner, M.D.	2	Resident	Medicine
Katherine W. Turner, M.D.	1	Resident	Anesthesiology
Charles Thompson Upchurch, M.D.	1	Resident	Medicine
Nathan Lee Van Zeeland, M.D.	2	Resident	Orthopaedics
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Daniel J. VanHimbergen, M.D.		Resident	Otolaryngology
Bradley James VanSickle, M.D., Ph.D.	1	Resident	Pediatrics
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Daniel Luna Venarske, M.D.	5	Resident	Allergy & Immunology
Dana Deaton Verner, M.D.	1	Resident	Psychiatry
Todd R. Vogel, M.D.	6	Resident	Surgical Critical Care
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Jeffrey Michael Waldman, M.D.	2	Resident	Anesthesiology
Mark Wayne Walter, M.D.	2	Resident	Psychiatry
Frank M. Warren, M.D.	6	Resident	Otology-Neurotology
Michael Dale Warren, M.D.	2	Resident	Pediatrics
Irfan Ahmed Warsy, M.B.,B.S.	2	Resident	Pediatrics
Scott Christopher Watkins, M.D.	2	Resident	Anesthesiology
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Derek Christopher Welch, M.D.	5	Resident	Pathology
Christopher Alexander Wells, M.D., Ph.D.	1	Resident	Medicine
Natalie Elliott West, M.D.	1	Resident	Medicine
Kevin Dale West, D.M.D.	2	Resident	Oral & Maxillofacial Surgery
George Allen West, D.D.S.	1	Resident	Orthodontics
Amy Shibley Whigham, M.D.	1	Resident	General Surgery
Christopher Michael White, M.D.	3	Resident	Medicine
Richard Oliver White III, M.D.	3	Resident	Medicine/Pediatrics
Brent William Whited, M.D.	1	Resident	General Surgery
Ryan Bradley Wiesemann, D.M.D.	3		0 11 1 11
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James Christopher Wilbeck, M.D.	1	Resident	Orthodontics Medicine
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Christopher Douglas Willey, M.D., Ph.D.	1 2	Resident Resident	Medicine Radiation Oncology
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