## Yale medicine YALE UNIVERSITY, 1 CHURCH STREET, SUITE 300, NEW HAVEN CT 06510-3330 yalemedicine.yale.edu winter 2011

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**Thursday, 6 a.m.** ROUTE 34 CONNECTOR AND AIR RIGHTS GARAGE

# Yale Medicine

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## WINTER 2011

#### A Week in the Life: Celebrating 200 Years of Yale School of Medicine

You've probably noticed that the magazine in your hands is thicker than our usual 32-page issue. As you turn the pages, you'll also see that this issue contains no articles; and at the halfway point, you'll encounter *Yale Medicine*'s first-ever centerfold.

In recognition of the School of Medicine's bicentennial, we chose to devote this issue of the magazine to a photo essay documenting a week in the school's life. During the week of September 20–24, photographers Julie Brown, Terry Dagradi, Robert Lisak, Michael Marsland, Frank Poole, and Stephanie Zollshan joined me in taking pictures across the medical campus. This was true fly-on-the-wall photojournalism. Nothing was posed or staged—each scene was captured as it unfolded before our lenses.

The resulting photo essay, artfully designed by Jenn Stockwell, acknowledges all the people who make the School of Medicine a leader in education, research, and clinical care, from custodians, secretaries, and librarians to students, postdocs, scientists, clinicians, lab techs, and deans. Our thanks go out to our team of talented photographers and to all those across the medical school who so graciously opened their offices, labs, classrooms, and operating rooms to us.

> John Curtis Editor

#### For more photos of A Week in the Life, visit us online

Our team of photographers took hundreds of photos during the week, far more than we could fit in the pages of *Yale Medicine*. To see more scenes of the School of Medicine, visit winter2011.yale.edu.

#### Monday, 6:45 a.m.

**STERLING HALL OF MEDICINE** Michael Rountree makes his cleaning rounds in the I-wing.

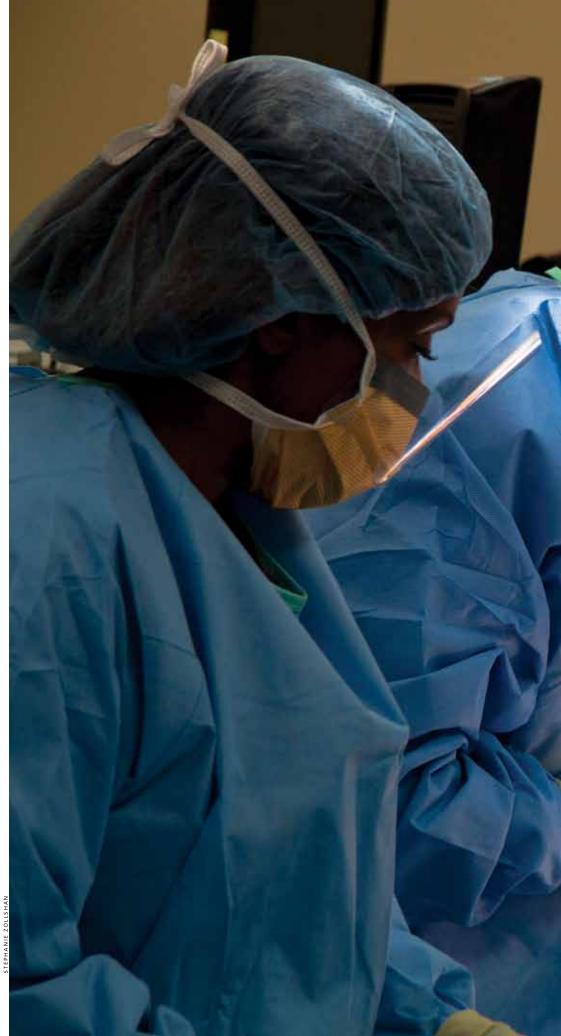
#### ON THE COVER

Sterling Hall of Medicine at dawn on Monday as we began documenting a week in the life of the School of Medicine.

Photographs by John Curtis

#### Thursday, 7:30 a.m. smilow cancer hospital at yale-new haven

Robert Udelsman, chair of surgery, performs a thyroid operation. Udelsman, who came to Yale in 2001 from Johns Hopkins, focuses on surgery of the thyroid, parathyroid, adrenal gland, and endocrine pancreas. He also does research on techniques to minimize the trauma of surgery.









#### Wednesday, 8 a.m.

STERLING HALL OF MEDICINE The weekly meeting of Dean Robert Alpern with his advisors: clockwise from left, Alpern, Deputy Dean Richard Belitsky, Deputy Dean Cynthia Walker, Associate Vice President for Medical School Development Jancy Houck, Chief of Staff Kerry Falvey, Deputy Dean David Leffell, and Deputy Dean Carolyn Slayman. At far left is legal counsel David Florin.

ROBERT LISAK

#### Thursday, 8:30 a.m.

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FITKIN AMPHITHEATER Every Thursday morning in the Fitkin Amphitheater, attendings, residents, and medical students gather for internal medicine grand rounds, a tradition that began in Europe in the 17th century. On this Thursday David M. Greer, associate professor and clinical vice-chair of the Department of Neurology, speaks on "Predicting Neurological Outcome in Non-Traumatic Coma."



#### **Thursday, 9 a.m.** YALE SHUTTLE

Russell Swanson is a driver on the Orange Route, which wends its way along Orange Street in the East Rock neighborhood (also known as "Graduate Ghetto") every morning and afternoon.







Thursday, 8:30 a.m. study at the School of Medicine, the Yale Shuttle is the main way to reach the medical campus.

#### Friday, 8:45 a.m.

BELOW Medical student Caitlin Koerber, at right, who's taking a fifth year for research, regularly rides the shuttle from her home in East Rock.



Thursday, 8 a.m. corner of cedar and congress/the anlyan center ۲

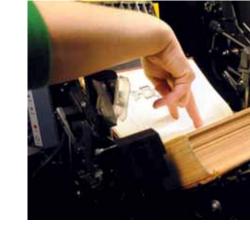
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#### HISTORICAL LIBRARY

Librarian Mary Hughes uses the Kirtas Scanner to scan pages from old books and documents. The library purchased the scanner in February 2010 to digitize material and since then has digitized almost 1,500 19th-century medical books—a total of 400,000 pages. Because these books were printed on paper with a high acid content, many of them will become brittle and unusable over time.



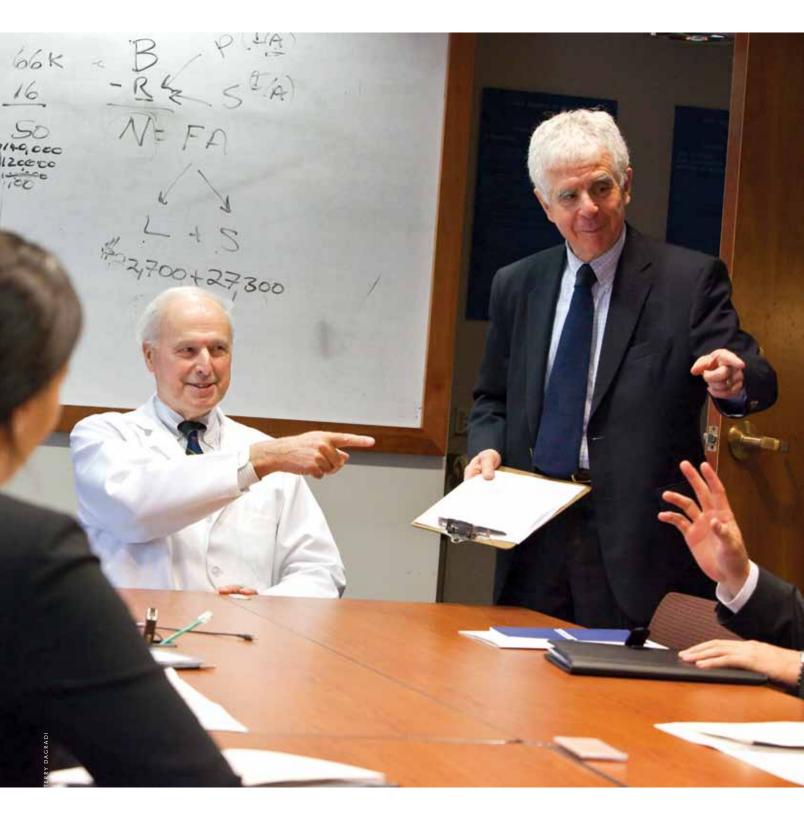




#### Friday, 9 a.m.

#### OFFICE OF ADMISSIONS

Each year more than 4,000 applicants apply for 100 slots at the School of Medicine. The admissions process starts in September when applicants begin arriving for interviews. Richard Silverman, director of admissions, introduces Emile Boulpaep, professor of cellular and molecular physiology, at a "Faculty Meet & Greet" in September. These sessions offer applicants an opportunity to speak with faculty members about anything that comes to mind—the thesis program, the curriculum, general School of Medicine matters, or the faculty member's own work and career.







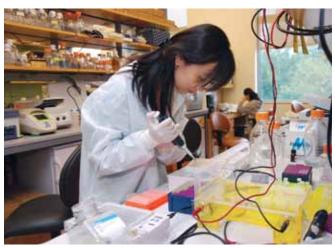
#### Wednesday, 9:30 a.m. YALE-NEW HAVEN HOSPITAL

Morning report dates from the tenure of Paul Beeson, the legendary chair of the Department of Internal Medicine from 1952 to 1965. Every morning residents would report to Beeson on each patient admitted the day before their presentations included the admitting diagnoses, history, and physical examination. The practice spread from Yale to other institutions and remains part of medical education to this day. On Wednesday the tradition continues as Cyrus Kapadia, Fred Cantor, John Forrest, and Tom Duffy hear reports from residents. Forrest was a resident under Beeson in the 1960s.

#### Settling into the work day

**BELOW, CLOCKWISE FROM TOP LEFT** Richard Belitsky, deputy dean for education; Renjing Liu, a postdoctoral associate in the Stem Cell Center, who is studying the signals that turn a gene on and off; senior electronic technician Eugene Modzelewski in the machine shop on Cedar Street that makes specialized equipment for scientists; security guard Bob Keyes in the Sterling Hall of Medicine; studying in the Cushing/Whitney Medical Library; Susan Sansone, assistant to John Forrest, director of student research.









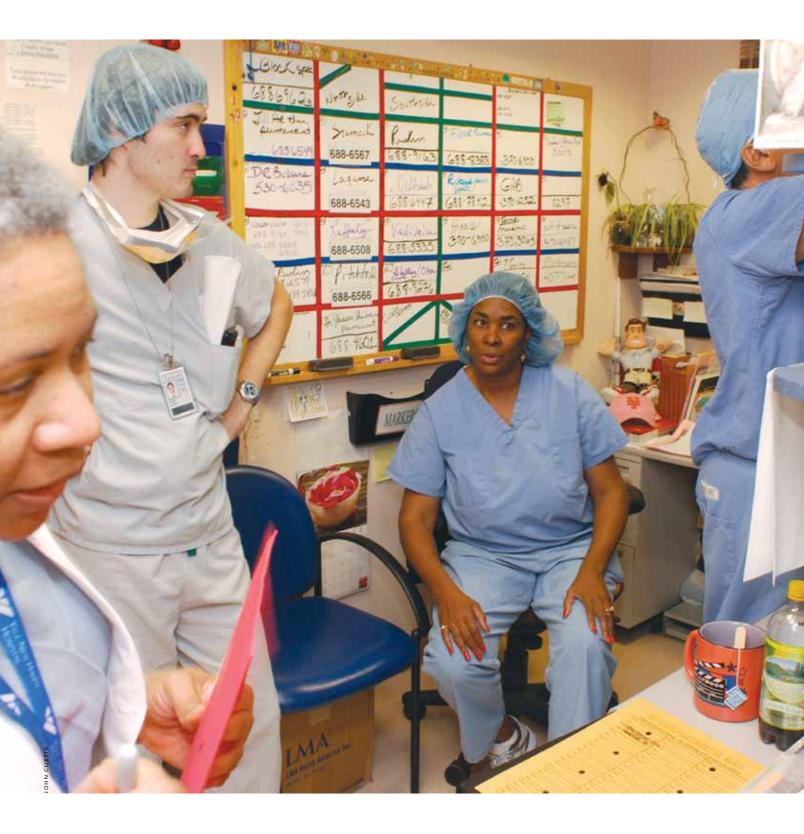






#### Wednesday, 10 a.m.

YALE-NEW HAVEN HOSPITAL Ruby Wilson, seated, is the communications associate in the Department of Anesthesiology, but her job description doesn't do her justice. She serves as a clearinghouse, coordinating the activities of attendings, residents, medical students, and nurses in the OR.



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#### Thursday, 10 a.m. LABORATORY OF EPIDEMIOLOGY

#### AND PUBLIC HEALTH

Lindsay Rolland, lab manager for Durland Fish, dons a white gown before entering the tickery. The white fabric makes it easy to check for errant arthropods that might otherwise escape. Fish's lab studies the ecology of such vector-borne pathogens as the bacteria that cause Lyme disease.





## OHN CURTIS (2)

#### Tuesday, 10 a.m.

#### STERLING HALL OF MEDICINE

Since the 1960s the stockroom in the basement of Sterling Hall of Medicine has been selling supplies to labs throughout the medical school. Originally created to provide equipment to the Department of Molecular Biophysics and Biochemistry, the stockroom quickly expanded to offer the same service to other departments and now sells more than 1,700 different items at cost. The stockroom first sold plastic, glassware, and office supplies, but now most of its annual \$10 million business is in chemical and biological agents.

**OPPOSITE PAGE** Vali Gazula, an associate research scientist in pharmacology, shops for lab supplies.

**ABOVE** Carola Morell and Roberto Scirpo, students from Italy working in the lab of Mario Strazzabosco, check out their purchases.



#### Thursday, 10:30 a.m. YALE MEDICAL GROUP

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Theresa Turco, a senior compliance auditor, and Carmencita Rubin, a compliance auditor, at work in the offices of Yale Medical Group (YMG) at 300 George Street. With more than 800 physicians in 160 specialties and subspecialties, YMG is one of the largest academic multispecialty group practices in the United States.

### Friday, 10 a.m.

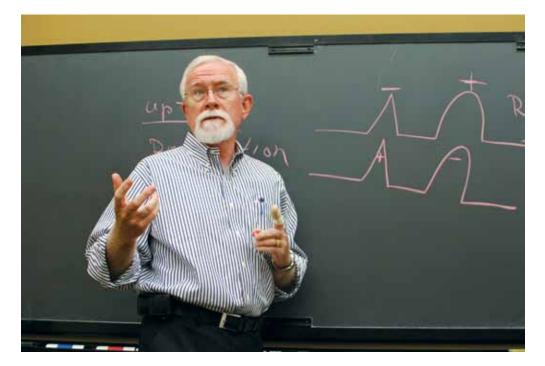
THE ANLYAN CENTER

**RIGHT** First-year medical students Jennifer Quon, Sasha Gupta, Peter Zhao, and Nicholas Bergfeld form a team that will examine a cadaver in the anatomy lab over the course of several months.

**BELOW** The new anatomy lab opened in 2003 with more room and dissecting stations. Computer terminals at each station allow students to refer to online resources while they are dissecting. Each station also has a vent that draws odors out, eliminating the smell of formaldehyde.







#### Tuesday, 11 a.m. HOPE BUILDING

**LEFT** Jerry Collins, director of the pharmacology course in the Physician Associate Program, teaching in the Hope Building.

**BELOW** First-year students in the pharmacology class, from left, Jennifer Fisher, Angelica Torres, Kerry Shanley, and Martha Mohr.



#### Monday, 11 a.m.

#### THE ANLYAN CENTER

Every Monday morning Ruslan Medzhitov's lab team meets in a conference room on the sixth floor of The Anlyan Center. On this Monday postdoc Jelena Bezbradica, who came to Yale in 2007 from Vanderbilt University, makes a presentation to her colleagues. Bezbradica studies antigen receptor signaling in the immune system, to understand how specificity of signaling is achieved when the same signaling modules are used by different cells in the body.





#### Wednesday, 11 a.m.

CHILD STUDY CENTER

Steven Marans, director of the Trauma Section at the Child Study Center, meets with representatives of the New Haven Police Department. In 1991 Marans was instrumental in founding the Child Development-Community Policing Program, a collaboration between mental health professionals at the Child Study Center and New Haven's police department to provide counseling and support to children who have witnessed violence. The program has been replicated in numerous cities throughout the country and around the world.

## Portraits from the School of Medicine

On Thursday, September 23, Frank Poole set up a backdrop, lights, and camera in the Sterling Hall of Medicine. From 11 a.m. to 2 p.m., we asked people passing by or working in nearby offices to take a moment to be photographed. Dozens agreed to pose for us and their portraits grace the following pages.

Jaideep Talwalkar Assistant Professor, Internal Medicine/Pediatrics



Libra



**Lauren Hibler,** First-year medical student



Calvin Edwards Custodial services



Marion Miller Administrative Assistant Yale Cancer Center



Betty Whittemore Senior Administrative Assistant Cushing/Whitney Medical Library



Dexter Banks Library Services Assistant



Kaifeng Zhou Research Associate, Molecular Biophysics and Biochemistry



Kenny Marone Director, Cushing/Whitney Medical Library



**Jack Elias,** Chair, Internal Medicine



Sarojini Adusumilli Postdoctoral Associate, Infectious Diseases



Jason Reinstedler (left) and Brian Funaro Support Specialists, Computer Information



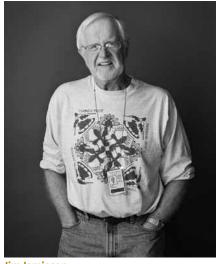
Yung-Chi Cheng Henry Bronson Professor of Pharmacology



Nicholas Bergfeld First-year medical student



Yang Yang Yan Research Associate, Physiology



**Jim Jamieson** Professor of Cell Biology, Director of MD/PhD Program



Aletia Garvey Library Services Assistant



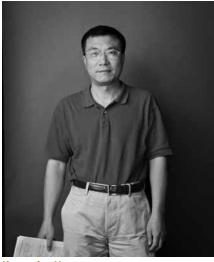
Marina Freudzon Second-year medical student



Mike Otremba Third-year medical student



<mark>Susan Combs</mark> First year medical student



Kuan-ping Yu Associate Research Scientist, Pediatrics



Harold Bornstein President of the Association of Yale Alumni in Medicine, with his wife, Maureen



Maciej Maniecki Postdoc Associate, Cancer Research



**Rina Garcia** Assistant Professor, Internal Medicine



Claire Bessinger Office Manager, Institutional Planning & Communications



<mark>Ernest Kohorn</mark> Professor Emeritus, Gynecology



<mark>Ramy Goueli</mark> Third-year medical student



Hong Nie Visiting Professor, Anesthesiology



Kathleen White Assistant Clinical Professor, Internal Medicine



Velma Williams Library Services Assistant



Nicole Edwards Senior Administrative Assistant Office of the Dean



Michael Alpert Second-year medical student



Bob Gifford, Professor Emeritus, Internal Medicine



John Gallagher Librarian



Susan Baserga Professor of Molecular Biophysics and Biochemistry, and of Genetics and Thera-peutic Radiology





Libby Canavan Research Associate, Neurosurgery



Henry Park Third-year medical student



**Bernie Ford** Courier





#### Monday, noon CUSHING CENTER

A reporter for the local ABC affiliate interviews Dennis Spencer, chair of neurosurgery, about the new home for the collection of neurosurgeon Harvey Cushing in the Cushing/ Whitney Medical Library. Although Cushing spent most of his career at Harvard, he came to Yale near the end of his career and left his collection, which included detailed notes of his cases, brain samples, and photographs of his patients, to the University.

### Friday, noon CONNECTICUT MENTAL HEALTH CENTER

The community organization City Seed opened its fifth farmers' market in New Haven in the summer of 2010 near the medical school campus. The market, at Park and South streets, draws customers from the Connecticut Mental Health Center, Smilow Cancer Hospital at Yale-New Haven, Yale-New Haven Hospital, and the Hill neighborhood. "It was very successful for a pilot year," said Nicole Berube, City Seed's program director.

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#### Lunch Break

OPPOSITE PAGE Lunchtime on Cedar Street presents an array of choices—Thai, Ethiopian, Indian, Chinese, and Mexican food—as well as hamburgers and grilled chicken sandwiches. Over the 13 years that Maggie Chang has been selling food on Cedar Street, she has refined her offerings to reflect the tastes of her clientele. "I changed a lot of stuff to vegetarian style," she says. Thursdays and Fridays she offers fish dishes, and her cuisine includes mustard greens, Japanese pumpkin, and Malaysian-style curried chicken.

#### ABOVE, CLOCKWISE FROM TOP LEFT

Residents Kimberly Slininger and Vira Anjali take a break in the anesthesiology department at Yale-New Haven Hospital; Medical student Alex Marzuka buys his lunch from the carts on Cedar Street; First-year medical students Andrew Young, Joseph Heng, and Rebecca Liu have lunch at Marigold's; The patio outside Marigold's is a popular lunch spot on sunny days.



# Thursday, 1 p.m. HOPE BUILDING

Once a month throughout the academic year, the Medical Student Council meets in the Hope Building for talks on issues of interest to students and faculty. September's meeting always features a talk by Director of Admissions Richard Silverman, who discusses the newest class of medical students.



## Friday, 1 p.m.

# YALE-NEW HAVEN HOSPITAL

Specimens from patients arrive every day in the pathology gross room at Yale-New Haven Hospital. Teams of histologists, pathologist assistants, and pathologists process surgical specimens and report on their findings. **ABOVE** Rebecca Wong, pathologist assistant, examines a sample and dictates her report into a microphone.

**RIGHT** Keri Stratton, pathologist assistant, and Lori Marini, pathologist assistant and gross room manager, examine samples.

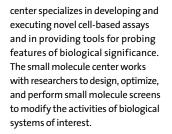






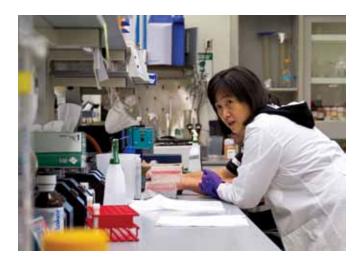
#### West Campus

Since 2007, when Yale purchased the former pharmaceutical facility now known as West Campus, the 136-acre site has become home to core facilities that offer their expertise to biomedical researchers on the main campus. Among them are the Yale Center for Genome Analysis, the Center for High Throughput Cell Biology, and the Small Molecule Discovery Center. The genome center has provided biotechnological support to a variety of projects related to autism, age-related macular degeneration, central nervous system repair, and genes crucial to the evolution of the human brain. The high throughput



**OPPOSITE PAGE** In his office in the Center for High Throughput Cell Biology, Jason Ignatius keeps toys on a shelf. The toys, he says, "hold no significance other than to help keep work fun even while being productive."





### Monday, 10 a.m. YALE CENTER FOR GENOME ANALYSIS

**TOP** Director Shrikant Mane, at left, with lab members. This core facility has the latest DNA sequencing technology, and its large data capacity supports a variety of research projects to conduct whole genome surveys of large population groups.

# **Monday, 10 a.m.** YALE CENTER FOR GENOME ANALYSIS

**ABOVE** Research assistant Pamela Huang began working in the Department of Molecular, Cellular, and Developmental Biology in 2007 and moved to the genomics core in West Campus in January 2010. She does DNA sequencing, which she calls a powerful tool that can find insertions and deletions in the genetic code. Monday, 2 p.m. CENTER FOR HIGH THROUGHPUT CELL BIOLOGY TOP Ashima Bhan, a senior cell culture biologist at the Center for High Throughput Cell Biology, removes a rack containing cell lines from the liquid nitrogen repository.

### **Monday, 2 p.m.** SMALL MOLECULE DISCOVERY CENTER

**ABOVE** Jay Schneekloth is working on a microarrayer that prints Small Molecule Microarrays, a new screening technology that the center has recently started offering for the Yale community.











# Tuesday, 1 p.m. **40 TEMPLE STREET**

**TOP** Dermatologic surgeon David J. Leffell examines a patient in his office on Temple Street. Leffell is also the medical school's deputy dean for clinical affairs and CEO of Yale Medical Group.

**ABOVE** Allison Hanlon, a physician in the Dermatologic Surgery and Cutaneous Oncology Section at Yale, examines slides of skin cancer

as part of the Mohs procedure, a surgical technique for the treatment of skin cancers. After the cancer is surgically excised from the patient, slides are generated to examine all margins of the tumor to ensure that all cancer cells have been removed.

LEFT Clinical technician Sirin Karasay prepares slides for surgeons by fast freezing tissue and cutting it into thin slices.



### Tuesday, 1 p.m. LIPPARD LABORATORY FOR CLINICAL INVESTIGATION

Finding more space at the medical school is a constant challenge, as is upgrading existing space to meet the requirements of new labs. Hundreds of thousands of square feet of lab, support, and office space have been renovated in recent years. In September crews work on the ninth floor of the Lippard Laboratory for Clinical Investigation, installing HVAC systems.

**RIGHT** Fred Cassidento, of Environmental Engineering; Jack George, an electrician at ESC Controls; and Steve Fortier, foreman with ESC Controls, look over plans for the project.

**ABOVE** Workers install tubing in the space allocated to the neurology department.

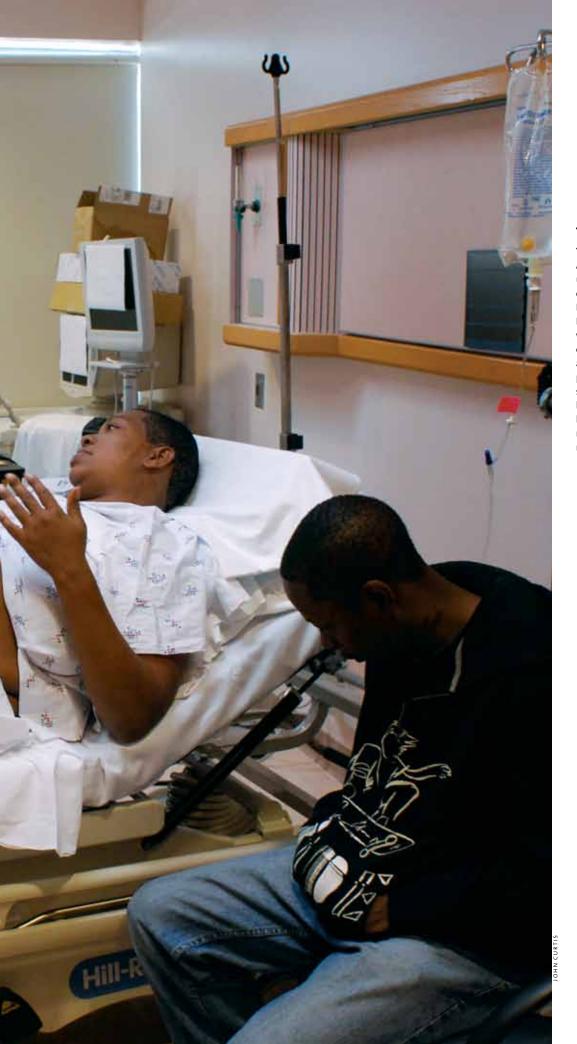








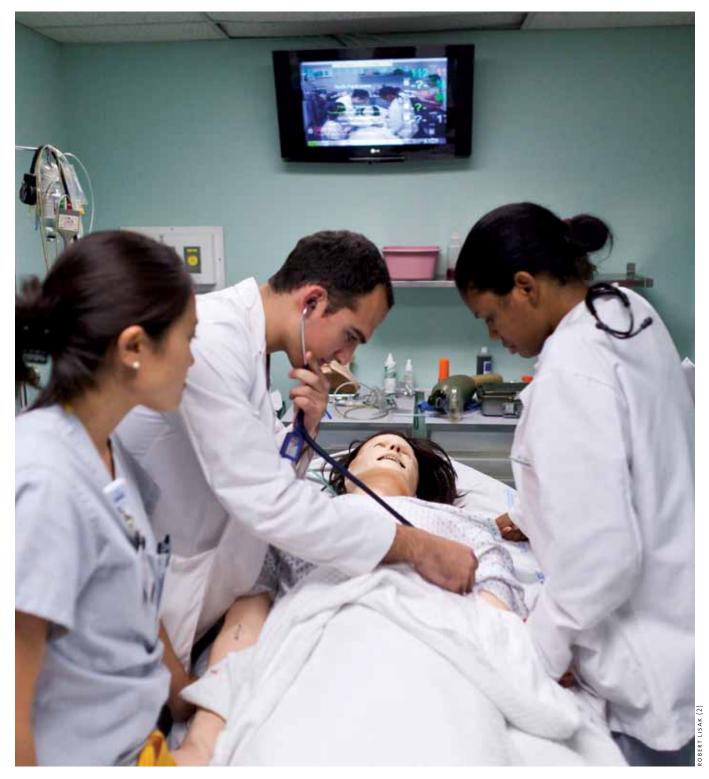




# **Tuesday, 2 p.m.** YALE-NEW HAVEN HOSPITAL

As he prepares to perform an intrauterine transfusion, Joshua Copel discusses the procedure with Teresa Holloway and Tyrone Stevenson. Holloway's fetus has Rh disease, which requires transfusions in order to replace red blood cells that are being destroyed by antibodies produced by the mother's immune system. Untreated, Rh disease can be fatal for the fetus. Copel and his team use ultrasound to guide a needle through Holloway's abdomen to reach the fetus. Students can practice their clinical skills on a high-fidelity human patient simulators, also known as SimMan. These polymer mannequins are computerized and can mimic most conditions that occur in the human body—they can talk and breathe, change their vital signs, and "die." Leigh Evans, director of health care simulation for the Department of Emergency Medicine, launched the program in 2006. Third-year students Esther Lee, Ramy Goueli, and Dionne Rudison work on their clinical skills.





# Thursday, 4:30 p.m. CHILD STUDY CENTER Marissa Gomes, a high school

Marissa Gomes, a high school sophomore, wears a hairnet of electrodes that measure how quickly her young brain responds to stimuli. Gomes is participating in a study of negative reinforcement processes and adolescent risk behavior conducted by Michael Crowley and Linda Mayes. ø

# Wednesday, 6 p.m.

# WEDNESDAY EVENING CLINIC

Since the mid-1970s the Wednesday Evening Clinic, founded by Morris Dillard, has offered medical students an opportunity to provide primary care under the supervision of Yale attendings. As one student described the clinic, "It's the only place in med school where you get to see the same patient again and again." Medical student Yang Qing examines patient Maria Corujo as her daughter-in-law Ana Cabrera watches.

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### At the end of the day

**CLOCKWISE FROM TOP LEFT** Sterling Hall of Medicine security guard Wayne Johnson; boarding the Yale Shuttle on Cedar Street; third-year medical student Stacey Kallem works out on an elliptical machine in the fitness center in the basement of Harkness dormitory; guests at a reception for Kristaps Keggi in the Medical Historical Library view an exhibit; the reception for Keggi, an expert in hip and knee replacement surgery, who was recently named the inaugural Elihu Professor of Orthopaedics and Rehabilitation.











# Wednesday, 7 p.m.

HARKNESS DORMITORY In Harkness dormitory, first-year medical students Alex Kula, left, playing electric guitar, and Stefan Gysler, on the 12-string acoustic, improvise and play rock music.

### **Thursday, 7 p.m.** HARKNESS AUDITORIUM

Stephanie Halene, an assistant professor in the section of hematology and at Yale Cancer Center, has played the viola since she was 13. "I thought it was just wonderful that the medical symphony was founded. It is particularly nice to pursue music with colleagues and friends," she says. The Yale Medical Symphony Orchestra, founded by Lynn Tanoue and Thomas Duffy, met and played for the first time in December 2007. Three years later, the orchestra, comprised of physicians, students, staff, and others who play strings, woodwinds, and brass, has performed several times in Harkness Auditorium. On Thursday evening the orchestra gathers to rehearse and to audition a new conductor.





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Alumni Bulletin of the Yale University School of Medicine Winter 2011, Volume 45, No. 2

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Yale Medicine is distributed to alumni, faculty, students, and friends of the School of Medicine.

Abbreviations commonly used in Yale Medicine include Hs to denote the final year of residency for house staff, FW for the final year of a fellowship, and YNHH for Yale-New Haven Hospital.

Yale Medicine is the Alumni magazine of the Yale University School of Medicine. Our offices are located at 1 Church Street, Suite 300 New Haven, CT 06510-3330.

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### Wednesday, 7 p.m. HARKNESS DORMITORY

Crystal Huynh, a first-year student in the Physician Associate Program, studies microbiology in her room in Harkness dormitory. "I often study in my room at night and average 40 hours of studying a week outside of class time," Huynh says.

