awareness of global health issues; a new course in global health for undergraduates; and even a course in Kiswahili, one of the languages spoken in Tanzania. DMS and MUCHS students and faculty will also study and do research at each other’s institutions. And Tuck students have been invited to determine the feasibility of developing a pharmaceutical industry in Tanzania.

The initiative builds on the DARDAR project, a collaboration between Dartmouth and MUCHS that began in 2000. Led by Dr. C. Fordham von Reyn of DMS and Dr. Pallangyo, DARDAR includes a clinic for children with HIV/AIDS, a trial for a tuberculosis vaccine, and a five-year Fogarty Foundation grant for training researchers in Tanzania. The word DARDAR was drawn from the first three letters of “Dartmouth” and of “Dar es Salaam,” the city where MUCHS is located. In addition, the acronym is similar to the Kiswahili word “dada,” which means “sister,” emphasizing the relationship between the two institutions.

Contacts: “When we go overseas, we look to . . . where there are already good contacts made with a strong academic institution we can partner with,” said Dickey Center Director Kenneth Yalowitz at the November event. Yalowitz, who is a former ambassador to Belarus and Georgia, retired from the U.S. Department of State in 2001 and so has considerable experience with global initiatives.

We’re trying to approach these kinds of problems not just as isolated medical issues, and not just as isolated social issues,” Spielberg said, “but as a continuum of society. Is [AIDS] important to all of us in the world?”

Yes—that’s the clear answer from Dartmouth.

Laura Stephenson Carter

Students learn to lobby between classes

The furthest most busy young doctors or doctors-to-be get in advocating for public health policy is the voting booth. But the members of a DMS student group have gotten to the state capitals of Vermont and New Hampshire and even to Washington, D.C.

Chaired by second-year M.D. student Robert Lampman, a once-dormant committee of the student government has become one of its most active. Known as the Public Health Policy Advocacy Committee (PHPAC, pronounced “P-H-pack”), the organization has two goals, says Lampman. “The point of the organization is not just to try to get medical students to be active right now, but to try to get people interested and comfortable to be active later on, wherever they go,” he says.

In the past year and a half, through PHPAC, DMS students have traveled to Washington, D.C., to lobby for increasing the National Cancer Institute’s budget; met with local representatives to learn about the legislative process; spoken to New Hampshire legislators about raising the tax on cigarettes; attended health-care policy forums in Burlington and Barre, Vt.; and participated in advocacy training workshops. PHPAC has also hosted a series of lunchtime talks with faculty from DMS’s Center for the Evaluative Clinical Sciences, which studies health policy questions.

Teaching medical students how to advocate for better health policy “hasn’t been a big agenda in medical schools,” says Dr. Joseph O’Donnell, senior advising dean at DMS. “Most of the time at medical schools,” adds O’Donnell, who recruited Lampman to chair PHPAC, “you educate not at the policy level but at the one-on-one patient level.”

Activism: While nearly all DMS students are involved in some form of community service, few, until PHPAC’s revival, were involved in health policy advocacy. Perhaps that’s because “it’s a different kind of activism,” says Lampman of getting involved in the political process. Now, however, PHPAC has an e-mail list of 50 students and its events are well attended. For example, about 30 students came to a PHPAC-sponsored talk by a rep-
representative of the Children’s Alliance of New Hampshire.

Lampman says he is drawn to public policy for the same reason that he is drawn to medicine. “You just want to help people,” he explains. “You want to make other people’s lives better.” He and fellow PHPAC members have also been inspired to act by the health-care inequalities they have witnessed both during their clinical rotations and in their personal lives.

Wonder: “Coming into medical school,” says Salma Dabiri, a fourth-year medical student and a PHPAC member, “I always thought there were never enough resources.” But as her training has progressed, “you start to wonder,” she says. “Is it that those resources are there and they’re just not appropriately distributed? That’s a different question entirely. It’s difficult to ask all these questions when you’re so fully involved in your day and you’re taking care of your patients.”

Rob Lampman, who starts his clinical rotations this fall, worries that he, too, will feel the time constraints of the clinical setting and will not be able to play as active a role in PHPAC. “We are looking for another student to pick up leadership of this organization,” he says.

The U.S. health-care system is full of gaps, points out O’Donnell, so “the Robs of the world are trying to make a system without gaps.” And O’Donnell is staying on the lookout for more “Rob”s to make PHPAC an ongoing force at DMS.

Jennifer Durgin

Laying the groundwork for gene therapy

A few years ago in France, 10 children with a severe immuno deficiency disorder—made famous by the “boy in the bubble”—underwent a new gene therapy treatment. Initial results were spectacular. Nine of the 10 children, who otherwise would have died, were pronounced free of the disorder. But shortly thereafter, three of the “cured” children developed leukemia.

When it was discovered that the leukemia had been caused by the treatment, the worst fears about gene therapy were realized. If genes can be inserted into someone’s DNA to “fix” a disorder, could those genes also cause new problems? The French trial (known as X-SCID) showed the answer was “yes.”

Lab: With that realization, the field of gene therapy was pushed back to the lab bench. It was clear that scientists needed to understand more about gene therapy in order to make it safe.

One of the scientists doing that bench work today is Dr. Michael Greene, a hematology-oncology fellow at DHMC and this year’s Tiffany Blake Fellow. The Tiffany Blake Fellowship, underwritten by the Hitchcock Foundation, funds a year of research for a physician just beginning an investigative career.

The fellowship will fund Greene’s research on retroviruses—molecular vehicles, or vectors, by which therapeutic genes are inserted into a cell. Greene aims to reveal some of the factors that determine exactly where a retrovirus inserts itself.

Until X-SCID proved otherwise, many researchers assumed that retroviruses (and the therapeutic genes they carry) inserted themselves randomly. Greene recalls being taught this in the mid-1990s. “I specifically learned that retrovirus inserts randomly into the genome,” he says. “Now that I’ve become interested in this problem, I’ve gone back to the research of the ‘80s and ‘90s, and it’s pretty clear that that thought wasn’t true.” There may be a random component, he explains, but there are other factors at play, too. Understanding these factors is a small but vital step toward making gene therapy safe and realizing its potential—possibly curing hundreds of diseases caused by genetic mutations.

Greene has been interested in gene therapy ever since learning about it as an undergraduate biology major at Clarkson. Since earning an M.S. in cellular and molecular biology at West Virginia University in 1996 and his M.D. at the University of Connecticut in 2000, he’s been at DHMC—first as a resident and now as a fellow. He used his elective time during residency to work in the lab of Dr. Christopher Lowrey, who studies gene therapy, and will conduct his fellowship research there.

One day, Greene hopes to direct his own lab, but he doesn’t want to do research full-time. “I want to always work with people,” he says. He recently did a two-month rotation at the Fred Hutchinson Cancer Research Center in Seattle, where he gained experience with bone marrow transplants from one individual to another. (In most bone marrow transplants at DHMC, patients are given their own treated cells.) “The way of getting gene therapy . . . into people,” says Greene, “is with a bone marrow transplant,” so the training will likely come in handy.

Wide eyes: “My ultimate goal,” Greene adds, “is to be the old doctor at some medical school somewhere, where young medical students with wide eyes are going to come up and ask me what it was like to treat people with cancer with poison [chemotherapy] . . . back in those dark times.” Given Greene’s accomplishments so far, he appears to be headed in that direction.

“He’s one of the best lecturers around,” says Lowrey, who enlisted Greene to help teach pharmacology and hematology-oncology. “He has an unbelievable knowledge of medicine,” adds Lowrey, “and the students just love him.”

Jennifer Durgin