

Public Health Rounds

Public Health and Professional Degree Programs - Tufts University School of Medicine

Fall 2010

Taking Oral Health Beyond the Ten Great Public Health Achievements

Nicole Holland, DDS, MS-Health Communication Candidate

Nearly 66 years ago, a public health intervention was implemented which is widely recognized today as one of the 10 great public health achievements of the 20th century: community water fluoridation. Despite the many historical and political reasons for the parallel professions of medicine and dentistry, and prior to present-day research revealing the compelling connection between oral and systemic health, these two professions have always been intimately intertwined within the goals of public health.

Given the first-ever Surgeon General's Report on Oral Health published in 2000, a *National Call to Action to Promote Oral Health* in 2003, *Healthy People 2010*, and the plethora of literature shedding light on the oral-systemic health connection, few in healthcare would deny the importance of oral health in the overall spectrum of care. These landmark documents report that despite recognition as one of the greatest public health achievements, more than one-third of the U.S. population still has no access to community water fluoridation;

tooth decay is 5 times more common than asthma in children and 4 times more common in adolescents, thus making it the single most common chronic childhood disease.

A fundamental aspect of public health is disease prevention. Unfortunately, preventive efforts are under-emphasized in the field of dentistry, despite oral health's

retorical inclusion on lists of great public health achievements. Specific policy changes are needed to prevent oral health from being relegated to 'fringe benefit' status, especially to avoid unfortunate cases like that of Deamonte Driver, a 12-year-old Maryland child who died in 2007 from a dental infection. Although earlier visits to the dentist may have prevented the tragedy, the inability to locate a dentist who accepted Medicaid led to the ultimate outcome. The impact of Deamonte's death led to Congress mandating the inclusion of dental benefits into the *Children's Health Insurance Program Reauthorization Act of 2009* that was signed into law by President Obama on February 2, 2009. Health professionals must continue to work to enhance public health dialogue and infrastructure to improve oral health awareness and empower the communities they serve.

Dr. Aviva Must, Dean of Tufts University School of Medicine's Public Health and Professional Degree (PHPD) Programs, offered that "As opposed to some other aspects of health, oral health is a daily affair; it's much more than just dentition, gums, tongue, and oral cancers. The oral cavity is the interface between the inside of the body and everything on the outside, and it is a place where environmental problems, social issues (like physical abuse), and systemic health issues are often first identified. It's often considered a window into systemic health." In addition, she noted, "In our programs, we try not to look at health in silos. Oral public health should permeate our curriculum and be incorporated in multiple courses in the same manner we try to ensure that other important aspects of health are represented across the curriculum."

Tufts, known for developing degree programs across disciplines, is in the planning stages a combined DMD/MPH program, a collaboration between the Tufts' School of Dental Medicine and School of Medicine's MPH Program. Graduates will be prepared to take on leadership roles at the intersection of dentistry, public health, and medicine to move oral health beyond lists of public health achievements and into the forefront of public health.

In This Issue

Taking Oral Health Beyond the 10 Great Public Health Achievements

Welcome New MD/MBA Program Director

HIV Transmission Knowledge Research in Rural Kenya

Web Strategies for Health Communication

In Memoriam: Eileen O'Neil, PhD, JD

Adapting Health Curricula to Address Increasing Obesity in Honduras

Faculty Profile: Linda Hudson, ScD

Award Winning Alumni

New Associate Director, MS-Pain Research, Education & Policy Program

PHPD Programs Dean's Message



Aviva Must, Ph.D.

As I write this message the week before the mid-term elections, it is hard not to be struck by what an odd political and policy climate we find ourselves in. Just as we are beginning to see the first concrete steps in health care reform, legal threats to its implementation are at least potentially serious. Michael Miller, Policy Director for the Community Catalyst and former director of Health Care for All, sized up the forecast this way: “Partly sunny with a (Supreme) chance of rain.” His forecast was based on a “win” that countered the National Association of Insurance Commissioners attempts to influence the way the medical loss ratio (the amount of premiums that must be spent on medical care rather than other company expenses) would be determined. Miller’s optimism was clouded by the decision of the Florida District Court to allow a case against the individual responsibility clause of the Affordable Care Act to go forward. Florida, or one of the several other states with similar cases, is likely to end up before the Supreme Court. It is difficult to gauge whether we should be looking at how legal challenges affect the political debate or how the political debate affects the courts. Clearly there is a need for ongoing engagement of the public health community and individual consumers to ensure that implementation produces the reforms hoped for.

As we come to the end of 2010, health reform has begun. Among the provisions now in effect is one particularly relevant to many of our students and recent graduates: the ability of children to stay covered on their parent’s insurance plans until age 26. Of universal interest is the first ever “Prevention and Public Health Fund,” which provides federal funding for programs – almost one-quarter of a billion dollars has been allocated since the fund’s inception, 16 million to Massachusetts at the time of this writing. It includes a 10-year \$15 billion commitment to wellness and disease prevention, much of it delivered at the community level. Although expectations in the public health community

are high, the particulars are largely still unknown.

Our Public Health and Professional Degree Programs aim to be prepared for this new era in public health and health care. To that end, we have embarked on our first-ever strategic planning effort. In addition to being prepared to make the most of new opportunities, we will seek to better define our purpose and mission to guide the expected continued growth of our programs. Over the next months, we will be gathering input and reactions from students, alumni, faculty, medical school and university colleagues, and our external advisors. If you are contacted, we hope you will contribute your valuable perspective.

The dedication ceremony for the Berman Student Lounge in August launched the 2010-2011 academic year. Located on the first floor of the newly renovated Biomedical Research & Public Health Building, the facility offers study rooms, computer workstations, wireless, soft seating and a kitchen area. We are grateful to Dr. Harris A. Berman, Dean *ad interim* of Tufts University School of Medicine and his wife, Dr. Ruth Nemzoff, for their generosity—the students express their thanks by their extensive use of the new space.

Our community mourns the loss of two long-time faculty members, Dr. Norman Stearns and Dr. Eileen O’Neil. Dr. Stearns, Dean for Faculty Affairs, will be remembered as a distinguished medical educator and an exceedingly warm and gracious individual. Dr. Stearns was the prescient architect of two of our PHPD programs: the MS in Health Communications and the MD/MBA in Health Management. Eileen O’Neil, who retired from her faculty position at Tufts in June 2009, inspired a generation of students as well as her colleagues (see page 6, for a Remembrance).

My best wishes for a healthy, happy, and productive academic year,

Aviva Must, Ph.D.

Dean, Public Health and Professional Degree Programs

Welcome New MD/MBA Program Director, Joe Jabre, M.D.



Joe Jabre, M.D.

*Ashley Malins, MPH
Candidate*

Tufts University School of Medicine welcomes Joe Jabre, M.D. as the new Director of the MD/MBA in Health Management Program. Dr. Jabre assumed the role on November 1, 2010 and his robust professional experience has prepared him to lead the program and serve as a mentor for students. He will be replacing Interim Director, Marcia Boumil, MS, JD, LLM, who graciously maintained the position after Dr. John

Ludden retired as the Director of the MD/MBA Program in March 2010.

For over thirty years, Dr. Jabre has worked in academic medicine as a professor and researcher of neurology. He completed a Doctor of Medicine with honors at the French Faculty of Medicine in Lebanon. He specializes in neuromuscular disease, with a focus on patient-related research. Dr. Jabre served as Chief of the Neurology Service at the Boston VA Medical Center. He has authored thirty peer-reviewed publications, published sixteen books/book chapters, and has given over fifty presentations at symposia around the world. Currently, Dr. Jabre maintains affiliations with Harvard and Boston Universities.

It was not until late in his career that he decided to pursue a degree in business. Dr. Jabre sought to sharpen his managerial and negotiation skills through an MBA in order to succeed in his administrative appointments.

During his MBA coursework, at age 54, Dr. Jabre developed his first business plan. He proposed to create medical training software for healthcare practitioners in order to improve the understanding of tests used in the evaluation of nerve and muscle diseases. His business plan was well received; it was awarded first and second prize in several competitions and garnered the interest of many investors. Dr. Jabre's business

training afforded him the tools and confidence to launch a business venture, TeleEMG. Since its inception in 2005, TeleEMG has been a highly successful and self-sustaining effort. Like Dr. Jabre, MD/MBA graduates are sure to find business training to be a tremendous asset in their medical careers. Dr. Jabre asserts that although graduates of the program may not implement the business-related skills immediately upon entering a career in medicine, they will be able to identify and embrace opportunities when they become available to use their business training.

The Tufts University MD/MBA in Health Management Program was originally developed in partnership with Brandeis University's Heller School for Social Policy and Management and Northeastern University College of Business Administration in 1994. At that time, Tufts was the only Boston-area institution with a combined MD/MBA degree program, and one of only eight such programs nationwide. Since 1994, programs have sprung up across the United States, with over sixty programs now in existence. Indeed, joint MD/MBA degree opportunities are exploding as the medical practice increasingly necessitates physicians to exercise the managerial skills afforded by an MBA.

To date, more than 130 students have graduated from the combined MD/MBA program, which is now offered in partnership with Brandeis' Heller School. Dr. Jabre plans to connect with alumni to see what they are doing and how their MBA degree has been useful in their career. Nicholas Frisch, MD/MBA '11 and David Lucier, MD/MBA '11 are developing an alumni database for this purpose. Dr. Jabre envisions alumni as a resource for students considering the program as well as newly graduated students. Dr. Jabre also plans to refine marketing efforts to attract high-quality, energetic candidates. To increase interest, Dr. Jabre intends to drive up knowledge and appreciation of what the Tufts MD/MBA in Health Management Program has to offer.

Dr. Jabre's academic home is the Department of Public Health and Community Medicine. If you want to learn more about his business venture, TeleEMG, please visit www.teleEMG.com.

HIV Transmission Knowledge Research in Rural Kenya



l-r Community member interviewer, Faith Malemba, Daria Thompson, and Ms. Malemba's friend Margaret Sonia

Daria Thompson, MD/MPH Candidate

For my summer field experience I traveled to Voi, Kenya as a representative of the Tufts University School of Medicine's Nutrition/Infection Unit, a Division of the Department of Public Health and Community Medicine (PH&CM). My trip was supported in part by a Harold Williams, M.D. Medical Student Research Fellowship. I worked closely with Christine Wanke, M.D., Director of this Unit and Vice Chair of the Department of PH&CM, Steven Hong, M.D., M.P.H., Clinical Instructor in Medicine and Mkaya Mwamburi, M.D., Ph.D., Assistant Professor of PH&CM.

The goal of my research was to attempt to quantify the levels of HIV transmission knowledge in a resource-poor international setting, in this case Kenya. To do so, Dr. Hong and I wanted to replicate a study done by Fawzi, et al¹, entitled "Limitations in Knowledge of HIV Transmission Among HIV-Positive Patients Accessing Case Management Services in a Resource-Poor Setting." This study was conducted among impoverished HIV patients in the Boston area. Although the mean HIV transmission knowledge score was 80%, the authors found that highly vulnerable patients, such as those who could not access HIV medication, had a history of sexual abuse or problems getting clothing and had lower levels of HIV knowledge. The authors hoped to use

¹Fawzi M.C., Jagannathan P., Cabral J., Banares R., Salazar J., Farmer P, and Behforouz, H. *Limitations in knowledge of HIV transmission among HIV-positive patients accessing case management services in a resource-poor setting.* *AIDS Care* 2006; 18(7): 764-771

these results to alert providers that the most vulnerable patients may be at an increased risk of re-infection or HIV transmission due to limited HIV knowledge. We hypothesized that the mean HIV transmission knowledge score would be lower here than in US-based resource-poor settings. In addition, we also hoped to identify similar "vulnerable" patient populations that had lower HIV knowledge than the average.

We conducted a cross-sectional study nested in a NIH funded randomized clinical trial that was being conducted in Voi by the Nutrition/Infection Unit at the same time. The parent grant was recruiting participants in the Voi division of the Taita District in Kenya from the voluntary counseling and testing (VCT) clinic who tested HIV-positive; our study recruited both HIV-positive and HIV-negative men and women from this testing center, as well as the district hospital where it was located. A standardized questionnaire was given via face-to-face interviews by a trained interviewer, who was also a community member. The questionnaire included a broad range of factors, including markers of education level and socioeconomic status, access to healthcare and related services, risk behaviors for acquisition of HIV, as well as HIV/AIDS transmission knowledge. We described HIV transmission knowledge as "low" if less than 80% of the questions were answered correctly.

Currently, statistical analysis is still in its early stages of completion. The mean HIV transmission knowledge score was 81.2%, which was very similar to the mean knowledge score found in a US-based resource-poor setting (contrary to what we hypothesized). Future analysis will include bivariate and multivariate analyses of the factors associated with low HIV knowledge (<81%) and high HIV knowledge (>81%). While still in Voi, I met with the District AIDS/STI Control Officer (DASCO) of the Taita District of the Coast Province, in which Voi is located, Innocent Mjomba, to discuss the goals of the project and to get more information about HIV/AIDS in Kenya and about current prevention and education programs. Through him and through our other contacts in Kenya, we hope to use our results to strengthen existing HIV prevention programs in Kenya, in collaboration with Kenya's Ministry of Health and Social Services.

In our MPH program, one thing that has stood out most

Continued on p. 6

Web Strategies for Health Communication

Ashley Malins, MPH Candidate

The Internet has become a major source of health information as Americans (61% according to the 2009 Pew Internet and American Life Project) consult the web for information on medical conditions and treatment options. Moreover, use of web technologies for health purposes is continuously evolving with health-related websites incorporating user-generated content and social media becoming a common mechanism for communication.

Given the ubiquity of the Internet, it is essential for healthcare and public health organizations to create and implement a web strategy, which is a long term strategic plan to create and develop an organization's online presence in accordance with its mission and objectives. Web strategies outline how an organization should position itself online, communicate with target audiences, and choose the technologies it should use.

The Tufts Summer Institute on Web Strategies for Health Communication was developed via the Master of Science in Health Communication Program. It prepares students and professionals to develop, formulate, and implement a comprehensive web strategy to create or enhance an online presence for healthcare and public health organizations. This one-week, intensive course is directed by Lisa Gualtieri, PhD, ScM, Adjunct Assistant Professor of Public Health and Community Medicine at Tufts University School of Medicine. Professor Gualtieri established the Summer Institute in 2009 to help students and professionals develop practical skills necessary to execute health initiatives using the web and learn the utility of the most current web and social media technologies.

Professor Lisa Gualtieri holds a PhD in Computer Science from Harvard University. In addition to *Web Strategies for Health Communication*, Professor Gualtieri teaches *Online Consumer Health* and is offering a new course, *Social Media for*

Health, for the Tufts MS-Health Communication Program. She recently held a professional development seminar for Tufts Public Health and Professional Degree Programs' students entitled "Social Media: Enhancing Your Professional Image." A social media user herself, she writes a blog and uses twitter, Facebook, and LinkedIn. She presents at conferences including the Centers for Disease Control's Health Communication, Marketing, and Media Conference;

Communication, Medicine, and Ethics Conference; and the Medical Library Association Annual Conference. She has consulted with healthcare and public health organizations including the National Institutes of Health, Vermont Department of Health, and Cambridge Health Alliance.

The Web Strategies for Health Communication course has attracted professionals from institutions that include Lahey Clinic, Massachusetts General Hospital, Centers for Disease Control, Fenway Health Center, and Medtronic Dia-

betes Western Europe who have traveled from many states as well as Canada and Switzerland.

Students benefit from the insights of distinguished guest lecturers including: Bill Tancer, General Manager of Global Research at Hitwise, a global online competitive intelligence service, and author of "Click: What Millions of People Are Doing Online and Why it Matters"; Gary Schwitzer, Publisher of HealthNewsReview.org; Tara Montgomery, Director of Consumer Reports Health; and Ed Coburn, Publishing Director of Harvard Health Publications. The diverse backgrounds of both students and lecturers facilitated lively discussions and rich insights that led presenters to a unique learning experience for all.

Summer Institute students work in small groups to apply the concepts they learn in class to develop a web strategy for an actual organization, these have included Consumer Health Reports (2009) and Harvard Health Publications (2010).

Continued on p. 16



l-r, Ed Coburn, Publishing Director of Harvard Health Publications and Lisa Gualtieri, PhD, SCM

In Memoriam: Eileen O'Neil, Ph.D., J.D.



Eileen O'Neil, Ph.D., J.D.

Elena Naumova, Ph.D.,
Professor

Eileen O'Neil, Assistant Professor of Public Health and Community Medicine who taught for the Tufts MPH Program and retired in 2008, passed away earlier this year. Below is a memoriam written by Dr. Elena Naumova, Professor of Civil and Environmental Engineering and Public Health and Community Medicine.

Eileen O'Neil was a brilliant teacher, a stellar philosopher and fearless advocate for justice in public health. She taught public health policy courses for almost thirteen years for the MPH Program and many students were lucky to learn her magic of word crafting, to enjoy her sense of humor, to be mesmerized by her brilliance and to be deeply influenced by her passion for social justice.

Eileen had the most important qualities of a professor of public health: an impressive wealth of knowledge, mastery of pedagogy, a truly critical approach to thinking, and above all she always considered student's professional and personal development as an integral part of education. What made her an outstanding teacher was her total commitment to teaching. As a long-term investment with an unpredictable return, this commitment was based on trust and confidence. Eileen had a unique ability to trust in her students' desire to learn, to grow, and to become public health advocates.

Eileen was known to be a tough teacher, she encouraged students to take difficult and demanding tasks, she forced debate, and she taught them to learn by openly discussing controversial issues. When a teacher is evaluated primarily by students at the end of an exhausting semester, the probability of a fair assessment of a long-term impact of a course on student's professional goals and achievements could be quite low. As we measure difficulty and usefulness of a course using student evaluations, such assessments likely penalize the demanding, challenging teachers. Yet, students could see that her challenges were worthwhile; Eileen was selected by students for the most prestigious award given to a teacher in the MPH Program three times!

It was an honor, a challenge, and huge responsibility to be a student of Eileen's. She set high standards for a public health professional: when it came to social justice and human rights, she did not bend and stood for what she thought was right... and I don't remember her ever being wrong or unfair or lacking compassion.

She will be remembered as a wonderful colleague, who could introduce complexities of Aristotelian philosophy, the subject she was in love with, who possessed a unique ability to present a crystal clear line of arguments and who could always find a perfect quote. She was unfailing honest; she never told a lie, white or otherwise and she was funny. Because when she wasn't teaching or despondent at the state of the world, like Mark Twain, she knew how to laugh at life's absurdities and laugh hard.

Personally, I am thankful to Eileen for listening, for sharing ideas, for encouraging me to face new challenges, for wisdom and clarity, for being a wonderful friend who brought to my life so much joy and enlightenment.

HIV Transmission Knowledge Research in Rural Kenya

Continued from p. 4

to me is learning that knowledge alone does not change behavior. As this summer came to a close, I spent a lot of time thinking about the relatively high levels of knowledge of HIV transmission we found among our study population, which seems at odds with Kenya's high HIV prevalence of 7.1%. How can we help transform knowledge about a disease and its processes into change in the actual behaviors that lead to its continued transmission?

Faculty Notes

Doug Brugge, PhD, MS, Professor of Public Health & Community Medicine (PH&CM), is Principal Investigator and **Christine Rioux, PhD, MS, Research Assistant Professor of PH&CM**, **Steven Cohen, DrPH, Assistant Professor of PH&CM**, and **Mkaya Mwamburi, MD, PhD, Assistant Professor of PH&CM** are co-investigators on a new study, “A CBPR Investigation of Traffic Pollution and Cardiovascular Disease in Puerto Rican adults,” which is one of five projects within the Boston Puerto Rican Health Study (PI Katherine L. Tucker, PhD, based at Northeastern University). This study will, among other things, test the ability of in-home air filtration to reduce particulate pollution and improve markers of cardiovascular health. The center is funded for five years by the National Heart Lung and Blood Institute at NIH.

Steven A. Cohen, DrPH, MPH, Assistant Professor of PH&CM, recently published two manuscripts examining the role of inducing potential herd immunity against influenza in older adults by vaccinating children. The first, “Childhood Hib Vaccination and Pneumonia and Influenza Burden in US Seniors,” was published in *Vaccine* earlier this summer. The other manuscript, “Influenza Vaccination in Young Children Reduces Influenza-Associated Hospitalizations in Older Adults, 2002-06” will be published in the *Journal of the American Geriatrics Society* in fall 2010. Co-authors of the articles included **Kenneth Chui, PhD, MPH, Research Assistant Professor of PH&CM** and Elena Naumova, PhD, Professor of Civil & Environmental Engineering.

Lisa Gualtieri, PhD, ScM, Adjunct Assistant Professor of PH&CM, presented a keynote address on “The Future of Consumer Health” at the Medical Library Association 2010 Conference ePatient Symposium in May. In June, she and Pam Ressler, RN, BSN, HN-BC, MS-PREP candidate, presented “Blogging for Health: Communicating the Experience of Illness” at COMET 2010: 8th Interdisciplinary Conference on Communication, Medicine and Ethics.

Mark Haas, MBA, Clinical Instructor of PH&CM, was a

speaker in September 2010 at the American Health Information Management Association annual meeting in Orlando, FL. Professor Haas spoke about the American Recovery and Reinvestment Act (aka “the stimulus bill”) and the HITECH Act that provide monetary incentives for hospitals and providers to share patient medical record information electronically. Specifically, Professor Haas addressed work he has been doing at Massachusetts General Hospital to explore patient’s willingness to accept and understand medical record documentation sent to them in an electronic format.

He also demonstrated some of the technology developed and used at MGH that has helped to streamline how they share patients’ health information between hospitals, insurers, and public health agencies.

Paul A. Hattis, MD, JD, MPH, Assistant Professor of PH&CM, co-authored a report that was funded by the Kellogg Foundation and the California Endowment entitled “Health Professions Accreditation and Diversity: A Collaborative Approach to Enhance Current Standards.” Co-authors were Kevin Barnett, DrPH, MCP of the Public

Health Institute of Oakland, CA and Robert Eaglen, PhD, of the Northeastern Ohio College of Medicine.

Susan Koch-Weser, ScD, Assistant Professor of PH&CM, along with **Ylisabyth S. Bradshaw, DO, MS, Assistant Professor of PH&CM**, **Lisa Gualtieri, PhD, ScM, Adjunct Assistant Professor of PH&CM**, and **Susan S. Gallagher, MPH, Assistant Professor of PH&CM**, had a paper accepted by the *Journal of Health Communication* entitled, “The Internet as a Health Information Source: Findings from the 2007 Health Information Trends Survey and Implications for Health Communication.”

Barry S. Levy, MD, MPH, Adjunct Professor of PH&CM, has co-authored with Victor Sidel, MD, Professor of Social Medicine at Montefiore Medical Center and Albert Einstein College of Medicine, an editorial to be published in the March 2011 issue of the *American Journal of Public Health* on water and armed conflict and a chapter on the same subject in a book entitled *Water and Sanitation-Related Diseases and the Environment: Challenges, Interventions and Preventive Measures*.



First Annual Department of Public Health and Community Medicine Faculty Poster Session held November 2010. l-r Odilia Bermudez, Ph.D. and Katie McKenna, MD/MPH '14 Marcia Boumil, J.D. (background)

Continued on p. 11

Adapting Health Curricula to Address Increasing Obesity in Honduras



Emily Morgan, MS-Nutrition/MPH Candidate

Emily Morgan, MS-Nutrition/MPH Candidate

As in the US, obesity is a growing concern in Central America. In recent decades, the region has been undergoing a period of rapid demographic and epidemiological change characterized by urbanization and economic growth. Along with improvements in overall socioeconomic status, education and some health outcomes, this change – coined “nutrition transition” by researcher Barry Popkin – has produced harmful effects on diet and physical activity patterns. Major changes include an increase in the consumption of fat and added sugar, a decrease in daily physical activity, and an increase in sedentary behavior.

Understanding the impact of these changes on health and child development, Bilingual Education for Central America (BECA), a US-based non-profit operating in Honduras, identified health curricula development as a 2010 organizational priority. In the region, BECA partners with local communities to support affordable, high quality, bilingual immersion education. Currently BECA’s primary Honduran partner school is the San Jeronimo Bilingual School (SJBS) in Cofradia, Honduras.

In 2006-2007, I taught fifth grade with BECA at SJBS and fell in love with the organization’s mission and the community. Following my return to the US, I have stayed active with BECA. Excited about the organization’s 2010 commitment to implement health curricula and realizing that I had an applied learning experience (ALE) requirement to fulfill, I was ready to get to work!

Dr. Christina Economos, Associate Professor at Tufts Fried-

man School of Nutrition Science and Policy was interested in partnering with BECA on the curriculum development project and willing to share the curriculum that she created for the Shape Up Somerville project. The curriculum, known as the HEAT Club (for Healthy Eating, Active Time), uses Social Cognitive Theory concepts to build skills and confidence around health behaviors in elementary school students. My ALE project consisted of taking the curriculum and adjusting it to meet the needs of first to fourth grade students at SJBS.

In May, I headed to Honduras to collect qualitative data. During my two week visit, I spent time in the SJBS elementary school classrooms and spoke with community members in groups and one-on-one. This formative research was absolutely essential; though I had lived in the community for a year, I was surprised by how much new information I was able to gather. For example, household responsibilities and a lack of safe play spaces were identified as major barriers to physical activity outside of school. Many children indicated that they could not be active after school because they were responsible for childcare and parents expressed concern about the safety of their children playing outside. Though I intuitively may have understood these barriers, I would not have considered them central to curriculum adaptation without hearing them from the community members.

Back in Boston, I spent June, July, and August analyzing the qualitative information and adapting the HEAT Club. I suggested an expansion of the curriculum from 16 to 25 lessons per grade and added Spanish-language parent handouts to accompany each week’s class. Based on the qualitative research, new lessons included themes of hydration, sportsmanship, and goal-setting. Students were also provided with additional opportunities to learn and practice food preparation and indoor activities, such as hula hooping. Social Cognitive Theory was used to drive all stages of the adaptation process.

Throughout the fall I have been working with BECA’s US and Honduran staff to prepare the curriculum for implementation. It has been amazing to see so many months of work come together! This month, the teachers were given their new curriculum binders and the student workbooks went to print. I can’t wait for implementation to begin!

For more information about BECA’s work visit www.becaschools.org.

Faculty Profile: Linda Hudson, Sc.D.



Linda Hudson, Sc.D., M.P.H.

*Nicole Holland,
DDS, MS-Health
Communication
Candidate*

*"I am a Health
Educator."*

If you have had the opportunity to meet Linda Hudson, ScD, Assistant Professor of Public Health and Commu-

nity Medicine at Tufts University School of Medicine, then you probably have heard these words expressed with a bright smile and engaging enthusiasm. Dr. Hudson joined the Tufts University School of Medicine Department of Public Health and Community Medicine in September 2010. The esteemed credentialing letters behind her name notwithstanding, her foundation is rooted in health education; she considers herself to be a Health Educator first. Dr. Hudson has always had a vested interest in community-level affairs; however, she recognized her true passion only after experiencing a negative encounter with a medical provider that significantly impacted her. As a result, after graduating from Hunter College with a bachelor's degree in Urban Planning/Sociology and working at a day care center for four years, she comments that, "It was at that point that I started to look for a profession that would help me find the skills to empower other people to take full control of their lives and be full partners in their healthcare." Wanting to know more about health education and public health, she pursued a MPH with a concentration in Community Health Education at the University of Massachusetts, Amherst.

After practicing for 10-12 years, Dr. Hudson realized that although she had been the administrator or executive director of several public health programs, she needed to go beyond just a cursory evaluation and further understand the theory behind what made these programs work. According to Dr. Hudson, she "needed to figure out the research piece." This eventually led to obtaining a ScD in Social Determinants of Health, Program Planning, and Evaluation from Harvard School of Public Health. Dr. Hudson's professional career has encompassed a wide range of populations within the field of public health. She began her

career working with pregnant adolescents in New York; was the Executive Director of the Boston Violence Prevention Program/Health Promotion Program for Urban Youth; an Evaluation Consultant for the Boston REACH 2010 Breast and Cervical Cancer Project; and Vice President of the American Cancer Society, New England Division focusing on Community Health Systems Initiatives. In addition to the aforementioned positions, Dr. Hudson is an avid volunteer in her community serving on the Board of Directors for the National Institute for Violence Prevention and Arts in Progress; a former Board Chair for the National Black Leadership Initiative on Cancer/Boston; served on the Advisory Board for the Boston University Preventive Medicine Residency Program, to name a few.

Dr. Hudson is engaging in research focusing on disparate health outcomes among vulnerable populations. She asserts, "I think we [as researchers] have really grown in our understanding that communities have resiliency. They have assets, and we need to tap into those characteristics of communities to have sustainable health outcomes. I want to focus my research around resiliency and how those characteristics move the agenda to empower people to be full partners in their health outcomes and to address the issues that influence their environments."

Dr. Hudson highlights four concepts that have defined her trajectory: Community, Practice, Preparation, and Research. These four concepts define the training she has pursued and the work in which she is engaged. She is thrilled to be a member of the Tufts family because she sees these same four values embodied here as well. As a faculty member in the Department of Public Health and Community Medicine, Dr. Hudson states, "I believe this department is so valuable because of what it stands for both nationally and internationally. There is a demonstrated commitment to move research into practice."

The greatest joy from Dr. Hudson's position comes from "being actively engaged in the process of watching people grow. When challenged, it changes me as well." Whether interacting with students, fellow faculty members, community members, family or friends, Dr. Hudson, who is a self-professed 'people person', acknowledges that it is this process that "keeps her going." Her passion, commitment, and dedication to being a public health educator, researcher and practitioner have shaped her contribution to the field of public health and inspire those around her.

Class of 2010 Commencement Celebration



*Members of the Tufts Public Health and Professional Degree Programs
Class of 2010*

On May 23, 2010, the Tufts University School of Medicine's Public Health and Professional Degree Programs celebrated the graduation of its students. The 2009-2010 graduates included 69 MPH (MPH 27, BA/MPH 9, JD/MPH 10, MS-Nutrition 9, MD/MPH 12, and DVM/MPH 2); 5 MS-Health Communication, 2 MS - Pain Research, Education and Policy and 54 MS - Biomedical Sciences students.

The Faculty Speaker was Dr. Daniel Carr, Adjunct Professor of Anesthesiology and Founding Director of the MS - Pain Research, Education and Policy Program who is known internationally for his contributions to pain research, evidence-based pain medicine and to the social and political aspects of pain relief.

The Class of 2010 was honored at a Graduate Dinner and Awards Ceremony. Award recipients were as follows:

Cristina Freitas, JD/MPH, Natalie Valpiani, MPH and Rahul Kulkarni, MPH, Christopher Sales, MD/MPH and Matthew Sathers, MS-Biomedical Sciences received Academic Achievement Awards. Heather Angstrom, MS-Health Communication, received the Murray Feingold and Timothy Johnson Health Communication Academic Achievement Award.

Jenerius Aminawung, MD, MPH received the Ian MacNeill, PhD Award for consistently demonstrating an outstanding ability to analyze, interpret, display and communicate critical information derived from research data. This award honors the work of Dr. Ian MacNeill, who through his academic career has set the standard for research and scholarship in the application of analytical tools to public health sciences.

This year's honorees for their exceptional Applied Learning Experience projects included Jessica Geller, MS-Health Communication who was awarded The Norman S. Stearns Applied Learning Experience Award in Health Communication. Babette Davis, MPH, Patricia Dao-Tran, MPH and Jennifer Evans, DVM/MPH, were honored with the MPH Outstanding Applied Learning Experience Award.

Jonathan Waldstreicher, MD/MBA was honored with the Norman S. Stearns MD/MBA Award, which is given annually to a student in the combined MD/MBA program who displays excellence in academics and leadership. The Saltonstall Award for Excellence in Pain Research, Education and Policy was awarded to Amanda Bernius in recognition of achievement in and dedication to advancing, the patient-centered field of pain management.

Eight graduating MPH students were inducted into the Delta Omega Honor Society, which recognizes students for their demonstrated quality of leadership in public health, as well as their academic excellence. This year's inductees were Megan Cuoco, Babette Davis, Cristina Frietas, Debbie Freitas, Laura Hooper, Kimberly Petko, Emily Taylor and Natalie Valpiani.

Professors David Tybor, PhD, (MPH Program) Mark Haas, MBA (MD/MPH and DVM/MPH Track) and Peter Brodeur, PhD, (MS-Biomedical Sciences Program) were awarded Citations for Excellence in Teaching. Julia McDonald, MS/MPH '07 was honored with the J. David Naparstek Community Mentor Award is given annual to a public health professional who demonstrates a commitment to excellence through their work as practitioner.

Congratulations to the Class of 2010!



top-bottom, Members of the MPH Program's Class of 2010; Caitlin Ensor, MS-Biomedical Sciences Candidate and Peter Brodeur, PhD; and Kristin Manzanillo, MPH'10 and Heather Love, MPH'10. Commencement photos were by Commencement Photo, Inc. and the Award Dinner photos by Steve Johnson Photography.

Faculty Notes

Continued from p. 7

Joann Lindenmayer, DVM, MPH, Associate Professor of Public Health, Department of Environmental and Population Health, Tufts Cummings School of Veterinary Medicine, and Dr. Iwan Willyanto presented papers at the First Annual Congress of the Southeast Asian Veterinary Medical Schools Association. Their oral presentations, titled "Quantitative Assessment of the Need for Veterinary Public Health Education in Indonesia" and "Qualitative Assessment of the need for Veterinary Public Health Education in Indonesia" were based on a year-long project that was funded by the Rockefeller Foundation through its One Health Initiative.

Flavia Peréa, PhD, Assistant Professor of PH&CM, and Linda Martinez, MA, Internship Coordinator, Tufts Community Health Program, have partnered with the Lawrence Community Development Department and Groundwork Lawrence in Lawrence, MA to conduct a youth engaged study of the quality/condition and utilization of parks and playgrounds in the city. The study aims to inform local policy to improve parks and playgrounds and increase their utilization, in order to increase physical activity and decrease sedentary behaviors. Five youth (ages 16-20) from the community have been conducting assessments of the city's parks and playgrounds and their work and reflections will be featured in an upcoming exhibit on Race at the Museum of Science in Cambridge with the Tufts Clinical and Translational Science Institute. The focus of the event will be on Race, Place and Health, and will include a presentation and interactive activity with the youth focused on upstream factors that impact health, to be held on Martin Luther King Day, January 17, 2011. The project is funded by the Robert Wood Johnson Foundation.

Bea Rogers, PhD, Professor, Friedman School of Nutrition Science and Policy, gave two presentations in Colombia in October 2010 at the IV International Forum on the Right to Food and Nutrition Security. One presentation was on "Evaluation of Food Security Programs", and the other was on "Discordance of Estimates of Poverty and Hunger using Hunger Mapping." The Forum, organized annually by the National University in Bogota, was celebrating the fifth anniversary of the Observatorio de Seguridad Alimentaria y Nutricional.

Beth Rosenberg, MPH, ScD, Assistant Professor of PH&CM, presented a talk in September 2010 about "Safety Systems and Employee Involvement: What's Working and What's not Working" at the Department of Energy Integrated Safety Management System conference in Augusta, GA. Since she was quite critical of the Department's failure to enforce safety regulations and its endorsement of safety systems that encourage workers to hide their injuries, many Department of Energy officials were visibly displeased. Her observations were validated by many scientists, engineers and other

Award Winning Alumni:

Julia Goldberg, MS/MPH'08



Nicole Holland, DMD, MS-Health Communication Candidate

Congratulations to Julia S. Goldberg, MPH'08, who was awarded a Fulbright U.S. Student Program Scholarship. As a recipient of one of the most widely recognized international exchange scholarship programs in the world, Goldberg will travel to Mexico to analyze early warning of infectious disease systems. She is one of 1,500 U.S. citizens who will take part

Julia Goldberg, MS/MPH'08 this year in the prestigious program operating in 155 countries worldwide.

Goldberg was enrolled in the BA/MPH program at Tufts, graduating with a BA in Community Health, Spanish and Latino Studies in 2007 and an MPH with a concentration in Health Services Management and Policy in 2008. She then worked for the U.S. Department of Health and Human Services (HHS) in the Office of Global Health Affairs, a subdivision of the Office of the Secretary. While working on an Early Warning Infectious Disease Surveillance project at HHS, Goldberg recognized a need. What followed was a seemingly "natural progression" for Goldberg and her passion. "United States-Mexico Border Health has always been of interest to me because I grew up near the border in Arizona. Border health is unique in that it connects international and domestic issues," remarks Goldberg. A rigorous year-long application process eventually led to her prestigious Fulbright scholarship. In December 2010, Goldberg will be embarking upon a 9-month grant project in Mexico to analyze infectious disease data and assess the ways in which they are communicated internally and externally. Her analysis will focus on multiple perspectives, ranging from county to international levels. Goldberg is extremely excited to pursue her dream and is looking forward to the next year.

Students interested in applying for the Fulbright Scholarship may obtain information regarding eligibility, application requirements, and deadlines on <http://us.fulbrightonline.org/applynow.html>.

Aminawung Jenerius, MD, MPH'10



Ashley Malins, MPH Candidate

Dr. Jenerius Aminawung, MPH'10, was awarded the 2010 Retirement Research Foundation Masters Student Research Award for his Applied Learning Experience project entitled "Pneumonia and Influenza Hospitalizations in American Seniors: The impact of HIV". He was presented the award at the American

Aminawung Jenerius, MD, MPH'10

Public Health Association's Annual Meeting in November 2010 in Denver Colorado by the Aging and Public Health Section.

Dr. Aminawung's research project objectives were to describe the demographics and temporality of pneumonia and influenza hospitalizations and compare outcomes of pneumonia and influenza hospitalizations in the elderly with respect to HIV status over a fourteen year period in the United States. Using hospital claims data obtained through the Centers of Medicare and Medicaid services from 1991 to 2004, Dr. Aminawung and his collaborators, Siobhan Mor, DVM, PhD and Elena Naumova, PhD, found a "near doubling of the fraction of HIV-positive persons by 2004 compared to 1991" and despite a greater decline in in-hospital death among HIV-positive persons over the fourteen year period, HIV-positive persons were 50% more likely to die in the course of a pneumonia and influenza hospitalization than HIV-negative persons.

Dr. Aminawung completed his medical degree in 2001 in his home country of Cameroon, where he worked as a family physician before moving to the United States. His main interest is the epidemiology of infectious diseases, with a focus on improving preventive programs and policy efforts to benefit underserved and disadvantaged populations. Dr. Aminawung intends to build a career in public health in the United States, and eventually apply his knowledge and experience working through national or international public health agencies in developing countries.

The APHA accepts abstract submissions for a variety of topics in public health. The 2011 Call for Abstracts will open in December 2010. To learn more, please visit: www.apha.org/meetings.

Wendy Williams, BSN, M.Ed., New Associate Program Director, MS-Pain Research, Education and Policy Program



Wendy Williams, BSN, M.Ed.

Wendy Williams, BSN, M.Ed, is new to the role of Associate Director of the MS-Pain Research, Education and Policy Program (PREP) at Tufts University School of Medicine. Wendy comes to Tufts after spending eight years at Northeastern University in the School of Nursing working to ensure high quality clinical nursing education placements for both

the undergrad/pre-licensure students and the advanced practice students seeking both clinical and non-clinical nursing master's degrees. Wendy received her Bachelor's in nursing science from the University of Massachusetts and her Master's in Education from Northeastern University. Her own clinical nursing background centered on oncology and HIV/AIDS. Among her clinical roles, she was on staff at both Dana Farber Cancer Institute, during the time they had inpatient units, and at Harvard Community Health Plan/Harvard Vanguard with other highly skilled nurses on the HIV/AIDS Resource Team.

She was drawn to working with-in PREP on a number of fronts: the concern for under-treated pain and pain management are steady threads that ran throughout her clinical practice, for one. Ensuring adequate pain management is a strong cornerstone of quality nursing care and practice, so the PREP programs of study are very attractive to her and tie together much of what she values. Also, the chance to work collaboratively with the three program leaders (who are physicians), Dr. Dan Carr and Dr. Richard Glickman-Simon and Dr. Ylisabyth Bradshaw, is an opportunity she wants to leverage. She has long sought ways to be a force behind strengthening linkages between medicine and nursing and other health care disciplines to encourage both multidisciplinary and interdisciplinary approaches to health care. The PREP program presents an ideal setting to have broad-based conversations around pain issues. Her own

master's degree is in education, specializing in adult and organizational learning, so the opportunity to develop a program of study and optimize learning for graduate students globally is a really strong draw for her to be here at Tufts working with the PREP programs.

Wendy notes, "A real strength of PREP is its unique position in masters level education that delves deeply into the many physical/clinical, social and scientific aspects of pain. There is not a population of people, worldwide, that is not impacted by pain. Also, the fact that the PREP program is not solely clinically based creates a rich learning environment for many types of students... clinicians seeking to be subject matter experts in pain issues learn side by side with non-clinicians who may be seeing the PREP programs as a way to become well-informed advocates for pain issues." She sees two challenges to the PREP programs that she would like to positively impact. One challenge is getting more people in the greater Boston area to know about this great set of programs and to become matriculated students. The other challenge is clarifying to others the clear linkages between getting one of the certificates and/or the master's degree and a specific career enhancement. Wendy sees a certain pioneering element to encouraging students to go for the certificates or the degree as a natural next step in career growth.

Wendy will be working to see that PREP grows steadily, both in numbers and in innovative educational initiatives, and sustainably with input from all communities of interest: students and alumni and staff and the PREP Steering Committee and faculty and leaders in pain issues globally. She would love to speak with students and alumni and gain their insights on how PREP can best lead the way in pain research, education and policy. Wendy welcomes calls, 617-636-0815, emails wendy.williams@tufts.edu, or simply stop by her office in the M&V building, Room 142A.

Alumni Notes

MPH

Arshiya Baig, MD/MPH '02, of Chicago, IL, was a U.S. Fulbright Scholar in 2007-2008 at Colombia. She taught seminars on community-based participatory research and conducted research on the healthcare system response to domestic violence victims. Dr. Baig is currently an assistant professor in the Section of General Internal Medicine at the University of Chicago. Her research primarily focuses on using community-based research methods to design faith-based interventions to reduce Latino health disparities.

Wendy Brooks Barr, MD/MPH '99, of Medford, MA, started in July as an Associate Residency Director at the Greater Lawrence Family Health Center in Lawrence, MA.

Michael Cangelosi, MPH '09, of Natick, MA, is currently working at Tufts Medical Center as a Research Associate within the Institute for Clinical Research and Health Policy Studies.

Lisa Conley, JD/MPH '07, of West Roxbury, MA, just completed her first year as the Director of Intergovernmental Relations at the Boston Public Health Commission. Lisa and her husband, Brian, have a three-year-old daughter named Lila Jane.

Stacie Dunkle, DVM/MPH '07, of Decatur, GA, joined the CDC as an Epidemic Intelligence Service officer in the Division of Global Migration and Quarantine in July 2010.

Molly Belozor Firth, MPH '02, of Seattle, WA, has been working as Public Programs Policy Manager at Community Health Plan and Community Health Network of Washington since May 2008. Molly married, Michael Firth, in August 2009.

Melanie Doupe Gaiser, MPH '07, of Amherst, NH, is presenting research at the Annual American Evaluation Association Conference in San Antonio, TX.

Congratulations to **Jenna Gibson, MS-Nutrition/MPH '10**, of Tucson, AZ, who got married on September 25th, 2010 and traveled around Africa for six weeks before settling down in Boston in January.

Jacqueline Hill, MPH '06, of Mission, Kansas, moved to Kansas City from Boston in August 2010 to pursue her PhD in Health Policy and Management at the University of Kansas

Medical Center.

Scott Ide, MPH '01, of Framingham, MA, is a Certified Industrial Hygienist (CIH) working in Harvard University's Environmental Health and Safety Department.

Laura Lessard, BA/MPH '05, of Decatur, GA, is finishing up her PhD in Behavioral Sciences & Health Education at the Rollins School of Public Health at Emory University in Atlanta. Laura has been serving as a Centers for Disease Control (CDC) Foundation Fellow in the Division of Nutrition, Physical Activity and Obesity since 2008.

Amanda Lubit, DVM/MPH '04, of Beaverton, OR, is beginning a graduate program in sociocultural anthropology with the hopes of working with humanitarian aid organizations. She stopped practicing veterinary medicine and moved from NJ to the Portland area of Oregon to continue her education.

Josiemer Mattei, MS/MPH '04, of Medford, MA, spent nearly a year as a Visiting Assistant Professor at Northeastern University. Josiemer is now a Yerby Postdoctoral Fellow conducting research at Harvard School of Public Health. Josiemer's research focuses on diet quality, genetic variation, type 2 diabetes and obesity across racial/ethnic groups.

Mahrukh Mohiuddin, MPH '04, of Dhaka (Bangladesh), is freelancing as a communications consultant for health and other development programs. Mahrukh is also teaching at James P. Grant School of Public Health at BRAC University in Dhaka, and got married last year.

Sara (Rakaczky) Parisi, MPH '07, of Pittsburgh, PA, married Justin Parisi after graduating in 2007. Sara worked at Tufts for a short, but wonderful time in the Department of Public Health and Community Medicine. In 2008, she moved back to her hometown of Pittsburgh and is currently working as a Research Associate at the Center for Research on Healthcare at the University of Pittsburgh.

Justin Rice, MS-Biomedical Sciences/MPH '09, of Albany, NY, is a 2nd-year medical student at Albany Medical College.

Congratulations to **Marlene Camacho-Rivera, MPH '06**, of Brooklyn, NY, married fellow Tufts alumus **Argelis Rivera, MPH '05**, over Labor Day weekend 2010. Marlene is currently a doctoral candidate at the Harvard School of Public Health while Argelis is a 3rd year medical student at Albert Einstein College of Medicine.

Alumni Notes cont.

Allison Roditi, MPH '02, of Bayside, NY, accepted a new position as the Administrative Director for General Surgery at North Shore LIJ Health System. Congratulations to Allison on the birth of her son, Ryan Doyle Roditi, who was born on October 14, 2010.

Skye Schulte, MS-Nutrition/MPH '02, of Boston, MA, presented “Leveraging Social Media and Online Communities to Expand Your Reach” at the 2010 Albert Schweitzer Fellows for Life Conference on October 16th. Since 2010, she has served as chair of the Albert Schweitzer Fellowship’s Boston Advisory Board.

Maged Tanios, MPH '03, of Verdes, CA, had his graduation project accepted for publication. Maged moved from Boston to Southern California and accepted a position as Intensive Care Unit Director at a University of California, Los Angeles affiliated teaching hospital. He later accepted a position as Chairman of Medicine at a University of California, Irvine affiliated teaching hospital.

Lisa Montuori Trimble, MPH '02, of Melrose, MA, is about to celebrate her second anniversary with her husband, love of her life, and best friend, Ramsey Trimble. They were married in 2009 and currently live in Melrose MA with their two cats, Max and Angeline. Lisa has been works for Cambridge Health Alliance, Massachusetts’ sole remaining public hospital system. She is the Director of Health Promotion and Community Outreach.

Jennifer Truong, MPH '08, of Charlestown, MA, married Eric Heining on January 3, 2009. They had their first child, baby girl, Linnea Heining on November 23, 2009.

MS-HEALTH COMMUNICATION

Elizabeth Austin, MS-Health Communication '09, of Washington, DC, was promoted to Communication and Outreach Program Coordinator (Contractor), Office of Cancer, Complementary and Alternative Medicine with the National Cancer Institute (NCI).

Joanne Barker, MS-Health Communication '98, of Somerville, MA, has been writing for WebMD for the past year. She has a new website, BarkerHealth.com, showcasing highlights of her work.

Amy Behrens, MS-Health Communication '08, of Florence, MA, is now working as a Senior Health Writer at CommunicateHealth, Inc. in Northampton, MA. CommunicateHealth is a health education and communication firm focused on improving health literacy.

David Hudson, MS-Health Communication '03, of Portland, OR, recently accepted a new position with the Multnomah County Health Department in Portland OR. He manages the Healthy Active Schools Program as part of the CDC-funded program, “Communities Putting Prevention to Work.”

Sudha Raminani, MS-Health Communication '04, of Chicago, IL is currently working in brand protection for the Blue Cross and Blue Shield Association (the umbrella organization for all BCBS plans). Sudha is married to Anjan Chatterji.

Ellyson Stout, MS-Health Communication '07, of Watertown, MA, is currently working with the Education Development Center, managing a technical assistance team supporting states, tribes, and campuses in strategic suicide prevention programs.

MD/MBA

Babar Khokhar, MD/MBA '07, of Branford, CT, got married one week after graduation in 2007. They recently welcomed their daughter, Nadia, who is now two months old.

Alexander van der Ven, MD/MBA '05, of Miami Beach, FL is in his final year of orthopaedic surgery training, participating in a Total Joints Fellowship at the New England Baptist Hospital. Dr. van der Ven had to get closer to Tufts again after five years in Florida.

Michael Ward, MD/MBA '09, of Durham, North Carolina, is working at Duke University as an Emergency Medicine Resident.

MS-PAIN RESEARCH, EDUCATION & POLICY

Jessica Gerber, MS-Pain, Research, Education and Policy '09, of Cambridge, MA, is currently working as an acupuncturist at three different clinics: at her own location (Acupuncture for Everyone in Copley Square); part-time at Acupuncture Together in North Cambridge; and part-time at BayCove Human Services at their Gill Wellness Center. She misses being on the TUSM campus, but is happy to be applying her PREP knowledge on a daily basis.

Web Strategies for Health Communication

Continued from p. 5

The Institute culminates with group presentations to leaders of these companies. Ed Coburn, Publishing Director of Harvard Health Publications, was impressed with the 2010 student presentations, saying, “There were certainly some things we heard that we had considered but the students’ fresh eyes, new perspectives, and justifications gave us important insights into how we can better communicate our health information to the public.”

The Tufts Summer Institute on Web Strategies for Health Communication has been successful and received extremely positive feedback from the participants. One student, Zena Itani, MPH, CHES, a Senior Policy Associate at Altarum Institute in Washington, D.C., said, “This was the best professional development course I’ve been to. The following week I wrote part of a proposal based on what I learned; my company won that bid and I now lead online strategy for the project.”

To learn more about Web Strategies for Health Communication, please visit <http://webstrategiesforhealth.com>.

Public Health Rounds

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