

Guide to Community Service and Service-Learning Opportunities at UMass Medical School 2007 - 2008



A listing of academic and volunteer opportunities for students, faculty and staff, and members of the community.

Office of Community Programs

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OFFICE OF COMMUNITY PROGRAMS

Home of the following community-based initiatives:

The **MassHealth Access Program (MAP)** was established at University of Massachusetts Medical School (UMMS) to provide technical assistance, support and policy recommendations for the MassHealth Program - the name for all Medicaid healthcare coverage programs. The program is a collaborative between UMMS and the MassHealth Program of the Division of Medical Assistance. MAP works closely with MassHealth and its physician providers on policy and new program development in six areas: workforce development, cultural competency, education and training, dental education and outreach, healthcare access projects and community health centers.

The **Central Massachusetts Oral Health Initiative (CMOHI)**, funded by The Health Foundation of Central Massachusetts, the Oral Health Foundation (formerly the Delta Dental Foundation), the Kellogg Foundation, the Robert Wood Johnson Foundation and Tenet, is a response to the growing oral health crisis in our community. This is the fourth year of a collaborative involvement with dental societies and medical societies, health care agencies, community health centers, a local community college and state and community-based organizations to develop and implement comprehensive dental programs focused primarily on children and the uninsured.

The **Summer Assistantship Program** was started to offer first-year medical students the opportunity to work in a variety of community-based health, educational and human service organizations during the months between first and second year. The main goals of the program are to:

- provide unique service-learning experiences for future physicians
- help students understand the connection between an individual's health and a community's health
- enhance students' understanding of community health care problems and needs of underserved populations
- offer employment opportunities for medical students
- provide community based organizations with needed staffing and services

For the University of Massachusetts Medical School, the program establishes and strengthens relationships with community-based health, education and human service organizations that work with underserved populations across the state.

Table of Contents

| Mission | 3 |
|--|----------|
| Service-Learning at UMMS | 3 |
| A Step Towards Improving Service-Learning at UMMS | 3 |
| How You Can Use This Resource Guide | |
| I. Service-Learning | |
| Albert Schweitzer Fellowship: Worcester Satellite of the Boston Schweitzer Fellows Program | 5 |
| Community Medicine and Public Health Clerkship - MS1 | |
| Community Services – N/NG 630A, 631A,640A and 641A | |
| International Medicine | |
| Longitudinal Pathway on Serving Underserved, Multicultural Populations | 6 |
| | |
| Longitudinal Preceptorship Program (LPP) | 7 |
| Summer Assistantship Program | 7 |
| II. Community Service and Volunteer Opportunities | 9 |
| Access to Essential Medicines | 9 |
| Adolescent Medicine Interest Group | 9 |
| American Medical Student Association (AMSA) | |
| Asian Community Outreach Organization (ACOO) | |
| Big Brothers, Big Sisters | |
| Center for Healthy Kids, The | |
| Dermatology Interest Group | |
| Disability Interest Group | |
| Family Medicine Interest Group | |
| Free Clinics – Epworth, Hudson, & St. Anne's | |
| Flu Shot Clinics | |
| Generalist Physician Program | |
| Geriatric Interest Group (GIG) | |
| Health Professionals for Human Rights | |
| Know Your Status - Worcester | |
| Marrow for Tomorrow | |
| Massachusetts Medical Society (MMS) | 14 |
| Mussachasetts Michen | |
| Office of Science Education | |
| Patches of Love | |
| Pediatric Book Buddies | |
| Psychiatry Interest Group | |
| | |
| | |
| Student National Medical Association (SNMA) | 17 |
| Well Being Newspaper, The | |
| Workester Nursing Pipeline Consortium | 10 |
| Worcester Pipeline Collaborative Mentoring Program | |
| III. Optional Enrichment Electives | |
| Adoption and Foster Care: Considerations for Medical Practice | 19 19 |
| American Sign Language | |
| Basic Skills for Working with Smokers | 19 19 |
| Caring for the Seriously III | |
| Complementary and Alternative Medicine | 20 |
| Creative Writing to Enhance Learning | |
| Law, Ethics and Medicine | 21 |
| Maternal and Child Health Optional Enrichment Elective | 21 |
| Material and emild fleath optional Emilenment Elective | |
| Money, Power, and Medicine | 22 |
| | 22 |

| Rural Health Scholars Program | 22 |
|---|------|
| Teen Pregnancy: Medical and Psychosocial Perspectives | _ 23 |
| The Bigger Picture: Health Issues Affecting the Community of Worcester | |
| Understanding and Improving Our Health Care System | |
| | 25 |
| Ambulatory Student Health | 25 |
| Care of the Chronically Ill Infant and Child in the Home Environment | _ 25 |
| Community Psychiatry | _ 25 |
| Family Practice | |
| Geriatric Medicine | _ 26 |
| Health Care for the Homeless | |
| Indian Health Service | |
| Medically Underserved Preceptorships | _ 26 |
| Rural and Island Health Care | _ 26 |
| V. Field Study, Internships, and Research Opportunities | _ 27 |
| Live Science: Summer Science Fellowship for Secondary School Science Teachers - MS629 | _ 27 |
| Medical Education Summer Research Fellowship Program | |
| National Science Foundation Summer Undergraduate Research Program and National Institutes of Health | |
| Summer Research Fellowship Program for Minority Students | _ 27 |
| Senior Scholars Research Project | _ 28 |
| Summer Undergraduate Research Program | _ 28 |

COMMUNITY SERVICE AND SERVICE-LEARNING AT UMASS MEDICAL SCHOOL

Mission

Commitment to public and community service has always been a fundamental part of the mission of the University of Massachusetts Medical School (UMMS). The goal of community service at UMMS is to support improvement in health status for underserved populations in Worcester and across the Commonwealth. Providing health services to underserved populations occurs in a number of venues, including student-initiated and student-led volunteer programs, community-based research initiatives and community-based learning opportunities for many classes of health professionals. The Office of Community Programs, the Department of Family Medicine and Community Health, Office of Science Education, the Department of Public Sector Psychiatry and the Office of Student Affairs are among those parts of the medical school that currently demonstrate a strong commitment to supporting student volunteerism and service-learning opportunities. The Graduate School of Nursing and the Graduate School of Biomedical Sciences also serve this mission through academic programs and student activities.

Service-Learning at UMMS

UMMS recognizes the important learning opportunities that arise for students who engage in community service and other community-based health activities. These experiences provide not only valuable clinical training, but also a context for learning about the social, economic and environmental influences on the health status of individuals, families and communities. Several required and elective courses at the Medical School and Graduate School of Nursing intentionally integrate community service into the course requirements. These service-learning opportunities incorporate reflective practice through having students discuss how their community-based experiences affect their clinical training and professional development.

Growing national attention is being paid to the impact of community service and service-learning on the development of the healthcare workforce. This is demonstrated in the number of public and private grant initiatives designed to support the development and evaluation of service-learning models in health professions education, as well as evidence indicating that the earlier one begins developing a commitment to service, the more likely this commitment will be sustained.

Community Campus Partnerships for Health (CCPH), the Pew Commission for Health Professions Education, the Corporation for National and Community Service and Campus Compact are among the entities that work to promote the connection between community service and health professions education. Within this movement, UMMS is unique because of its mission-based commitment to public service. At present, most other initiatives are contained within a small sector of a health professions institution, rather than being an integral part of the mission and vision of the college, university, graduate school or residency program.

A Step Towards Improving Service-Learning at UMMS

This Guide was developed to demonstrate the breadth of community service and Service-learning opportunities at UMMS. It illustrates activities that utilize community service as a means of helping students achieve competency in community and patient advocacy, collaborative practice across agencies and professions, health education, health policy development, and community-based education and

research. This is part of an interdisciplinary effort to develop a strategy for embedding the University's public service mission more deeply into the academic opportunities it provides for its students.

How You Can Use This Resource Guide

This list is intended to be a guide for students, faculty, staff and community members interested in learning about or becoming more involved in community-based health professions training opportunities at UMMS. The Guide is separated into five sections*^{*}:

- Service-Learning: Courses and activities that intentionally integrate community service and/or reflective practice directly into the curriculum and course requirements.
- Community Service and Volunteer Opportunities: Extra-curricular community service opportunities primarily available to student volunteers.
- Optional Enrichment Electives and Fourth-Year Electives: Examples of clinical education opportunities that occur in a community-based setting, in whole or in part.
- Field Study and Internships: Extra-curricular education opportunities that occur in a communitybased setting.

Each entry identifies the school that sponsors the course or activity – Graduate School of Biomedical Sciences (GSBS), Graduate School of Nursing (GSN), or the Medical School (UMMS) –eligible participants, and whether the course or activity is required or optional. The most up-to-date contact information is also provided, so readers of the guide can contact course or activity coordinators directly to get more information about the project or to register to participate.



Definitions for each section heading were derived from Community-Campus Partnership for Health: A Guide for Developing Community-Responsive Models in Health Professions Education. Sarena D. Seifer and Kara M. Connors, Eds. 1994

I. Service-Learning

Service-learning is a form of experiential education that addresses human and community issues. Learning occurs through active participation in thoughtfully organized service that is linked to curriculum requirements. Structured reflection provides an environment in which students think, talk and write about what happened during the service work and its implications for their academic, professional and personal development. Goals of service-learning activities include:

- > The application of knowledge and skills in real world situations
- The development of the student's base of experience through which s/he can understand academic course work
- > The development of student's sense of compassion, civic responsibility and leadership skills
- > Enhanced understanding and analysis of the conditions in which students are providing service.

The following courses and programs identified in this section incorporate some service-learning elements.

Albert Schweitzer Fellowship: Worcester Satellite of the Boston Schweitzer Fellows Program Suzanne Cashman, ScD, Worcester Family Medicine and Community Health, 508-856-2930 Michael Huppert, MPH, Director and Associate Dean for the Office of Community Programs (508) 856-3255

| Where: | UMMS and GSN |
|--------|---|
| Who: | All students are invited to participate |

In 2006, the Boston Chapter of the Albert Schweitzer Fellowship Program (ASF) established a Central Massachusetts satellite site. The ASF provides area health professional students with year-long fellowships that address unmet health needs in the area. Inspired by Dr. Albert Schweitzer's life example, the program encourages selected students to act on their idealism by designing health-related community service projects with local community agencies. The program is unique in that it brings together students from across schools and health disciplines in year-long fellowship activities that include: a minimum of 200 hours of community service through an existing agency, under the supervision of a site and a faculty mentor; participating in an annual retreat and a series of monthly seminars; and writing a final written report and evaluation on the fellowship experiences. Students receive a \$2,000 honorarium for their participation.

Community Medicine and Public Health Clerkship - MS1 Mick Godkin, PhD, Family Medicine and Community Health, 508-856-3917

| Where: | UMMS |
|--------|--|
| What: | Required course |
| Who: | 1 st year medical students as a part of the |
| | PPS I course and graduate nursing |
| | students |

First-year medical students and graduate nursing students together undertake an in-depth study of a community health problem, such as refugee health, pediatric injury or substance abuse during a two-week, full-time field experience. While based at a community agency, students conduct a community diagnosis, analyzing the demographic and health needs of the population in reference to services offered. Each group of students produces a poster that is presented at a poster fair after the clerkship. Each student writes a reflective journal. This



program encourages students to think about provider roles that include community advocacy. For example, a student in the Refugee Health group said: "the mere will to advocate is not nearly sufficient; knowledge and respect of a culture is an essential first step to building trust." Another student in a group with HIV/AIDS as the focus said: "as a physician I want to be aware of the lives I am entering by becoming a patient's link to the healthcare system."

Community Services – N/NG 630A, 631A,640A and 641A

Kathleen Miller, EdD, ACNP and Jean Boucher, PhD, CANP, CACNP, ONS Graduate School of Nursing, 508-856-5768

| Where: | GSN |
|--------|-----------------------|
| What: | Required course |
| Who: | All clinical students |

In their clinical year, graduate nursing students have the opportunity to participate in community service as part of a project related to the role of the advanced practice nurse. Activities may include direct care services, teaching, or any other role that facilitates the community's understanding of the advanced practice nurse. These courses also provide students with a valuable lesson in the health care provider's responsibility to their community.

International Medicine

Mick Godkin, PhD, Director of International Medical Education, Office of Medical Education

| Where: | UMMS |
|--------|---|
| What: | Optional |
| Who: | 1 st and 2 nd year students |

The goal of the international medicine elective is to expose students to the languages of health problems, cultures and health care systems of other countries, especially developing countries, and to have students participate in providing care or community services to indigenous peoples. The expectation is that students will learn skills that they can use with immigrant and refugee populations in the U.S. Currently, forty percent of all students participate in international electives while in medical school.

| Longitudinal Pathway on Serving Underserved, Multicultural Populations | |
|--|--|
| Mick Godkin, PhD, Director of International Medical Education Program, | |
| Office of Medical Education | |
| | |

| Where: | UMMS, co-sponsored by Family Medicine and Community Health |
|--------|---|
| What: | Optional |
| Who: | 1 st year students who will make a four-year commitment to the program |

This four-year Pathway nurtures students' interest in, and capacity to provide care to the growing numbers of underserved and/or multicultural populations in the United States. The Pathway combines curricula abroad and domestically with underserved populations focused on developing linguistic and cultural skills as well as altruism and compassion for the hardships many immigrants and refugees face in their homeland, their journey to the U.S. and their transition to the U.S. Examples of the different experiences had by students in this pathway include:

- Assignment to a preceptor in the Longitudinal Preceptor Program who serves underserved, multicultural populations
- Summer pre-clinical fellowship abroad or community service projects in Massachusetts
- Assignment to a family in the Worcester area to learn about health and health care access from the family's perspective
- Family Medicine Clerkship focused on learning about the provision of care in a underserved and specific cultural community
- Clinical Clerkships in international underserved areas

• Periodic seminars to reflect on experience and provide relevant curricula

Students will gain knowledge, skills and attitudes in four major areas: poverty and health care access, racial prejudice and stereotyping, ethnic and cultural issues, and language and literacy issues.

| Longitudinal Preceptorship Program (LPP) – MS1 and MS2 | |
|--|--|
| Rebecca Spanagel, MD, Program Director | |
| Ann Perla, Administrative Manager, Office of Medical Education, 508-856-6107 | |

| Where: | UMMS |
|--------|---|
| What: | Required course |
| Who: | All 1 st and 2 nd year students as a part of the PPSI and PPSII courses |

The Longitudinal Preceptorship Program (LPP) is a mandatory course during the first and second year in the medical students' academic program. Through the LPP, students gain skills in medical interviewing and physical diagnosis in a practitioner's office. Students are assigned to community-based practice sites as their LPP placement. The LPP is designed to coordinate with concurrent science courses and is the community-based, clinical companion to the Physician, Patient and Society (PPS) course required for first and second year students. Basic interviewing and problem solving skills are learned in the PPS small groups and the LPP program offers students a lab type environment to practice and refine these skills in a clinical setting.

Societal Forces Influencing Advanced and Professional Nursing Practice – N/NG 603 A Jill Terrien, PhD, CANP, CACNP, 508-856-6622

| Where: | GSN |
|--------|-------------------------------|
| What: | Required Course |
| Who: | 1 st year students |

This required core course for first year graduate nursing students and second year graduate entry pathway students is focused on the analysis of issues, trends and forces that have direct and indirect effects on advanced nursing practice. Service-Learning concepts are introduced through didactic presentations, small group work, and case presentations as well as through community analysis, intervention and evaluation opportunities in a variety of medically underserved clinics and vulnerable populations served by a range of organizations. These initiatives provide students the opportunity to work with underserved populations to improve the health of communities. In groups, students develop health improvement projects in partnerships with communities. Students are expected to participate in community Service-Learning for a minimum of 45 hours over one academic year (September to May).

In terms of community Service-Learning, students are expected to:

- 1. Utilize the Precede-Proceed framework for developing a comprehensive assessment, outcome goals, intervention and evaluation of a health promotion/disease prevention strategy for a medically underserved, vulnerable population.
- 2. Incorporate knowledge related to health promotion/disease prevention strategies that target the Healthy People 2010 Goals and Objectives in community programming and evaluation.

| Summer Assistantship Program |
|--|
| Suzanne Cashman, ScD, Family Medicine and Community Health, 508-856-2930 |
| Mick Huppert, MPH, Office of Community Programs, 508-856-3255 |
| |

| Where: | UMMS -co-sponsored by the Office of Medical Education |
|--------|---|
| Who: | 1 st year students |
| When: | Summer between 1 st and 2 nd year |

The Summer Assistantship Program offers first year medical students the opportunity to work on one of a variety of community service projects aimed at meeting the needs of underserved communities throughout Massachusetts. This can be done either through employment in a community-based agency or development of an independent project.

Students apply for positions with sites that interest them and receive payment for their summer work.

Students:

- Learn about health problems and needs of underserved populations locally and around the state
- Participate actively in providing services designed to respond to identified community needs
- Meet several times in small groups to reflect on their experiences and relate them to their preparation in the Community Medicine Clerkship and Patient Physician & Society course
- Acquire knowledge and skills that influence their academic, professional and personal development

Through this program, the University establishes and strengthens its relationships with non-profit and communitybased organizations while continuing to provide structured learning experiences to first-year medical students. Community organizations benefit in their roles as educators of future health professionals and through their receipt of skilled student services for the summer.

II. Community Service and Volunteer Opportunities

Community service and volunteer efforts engage students in activities where the primary emphasis is on the service being provided and the primary intended beneficiaries are those receiving the service. Student volunteers generally feel a sense of reward for their service, but the learning that occurs is not structured and may even be accidental or counterproductive. Community service generally involves the giving of time, money or other goods for no monetary compensation. Community service or volunteer activities are freely chosen and not connected to classroom learning and may or may not address unmet community needs.

Access to Essential Medicines Faculty Advisor: Mario Stevenson, MD Student Contacts: Roona.Ray (Roona.Ray@umassmed.edu) Julia Nelligan (Julia.Nelligan@umassmed.edu)

| Where: | UMMS |
|--------|---|
| What: | Student-led Interest Group |
| Who: | All students are invited to participate |

The UMMS chapter of the national organization Universities Allied for Essential Medicines is dedicated to shaping university policy that will both improve access to essential medicines in the developing world and increase research into the diseases that predominantly affect people in poor countries. Current goals are to encourage the university to make the discoveries of UMMS researchers available in generic form in developing countries and to increase research on neglected disease. Students participate in awareness campaigns and in educating faculty, staff, and the community about the need for access to essential medicines.

Adolescent Medicine Interest Group

Faculty Advisor: Diane Blake, MD Student Contacts: Parag Goyal (Parag.Goyal@umassmed.edu) Tim Lin (Timothy.Lin@umassmed.edu)

| Where: | UMMS |
|--------|---|
| What: | Student-led Interest Group |
| Who: | All students are invited to participate |

The Adolescent Medicine Interest Group (AMIG) allows interested students to learn skills to better serve the needs of adolescents. Our goal is to introduce the field of adolescent medicine as a career option, as well as to supplement our medical knowledge in areas that are more focused toward teen patients. In particular, we aim to educate more about the medical needs of underserved adolescents, including how to adopt an interviewing style conducive to making connections with this group of patients. We offer lunch talks about career options and issues in adolescent medicine, including eating disorders, teenage pregnancy, and adolescent sexuality. In addition, students may sign up to shadow a physician that specializes in Adolescent Medicine to see first-hand the enjoyment and challenges that one may encounter in working with this patient population. AMIG also organizes a weekly tutoring program for teen moms who are working towards their GED at the YWCA. Students are invited to come to as many or as few activities as they desire.

American Medical Student Association (AMSA) Faculty Advisor: Michele Pugnaire, MD Student Contacts: Lia Withington (Lauren.Withington@umassmed.edu) Jay Lawrence (Jay.Lawrence@umassmed.edu)

| Where: | UMMS |
|--------|--|
| What: | Student-led Interest and Volunteer Group |
| Who: | All students with an interest are welcome to participate |

AMSA is the American Medical Student Association, the largest independent association for physicians-in-training in the United States. AMSA's philosophy is that it takes more than medical school to make a physician. Activities focus on advocacy, community and public health, global health, humanistic medicine, health policy, and medical education. AMSA offers students the opportunity to see medicine within the broader context of health care, and it gives students a forum to act on their interests in health care. Students are involved in local community service projects, advocacy projects for larger-scale change, and national involvement with other medical students.

Asian Community Outreach Organization (ACOO)

Faculty Advisor: Danna Peterson, MD Student Contacts: Sarah Sheppard (Sarah.Sheppard@umassmed.edu)

| Where: | UMMS |
|--------|--|
| What: | Student-led Interest Group & Volunteer Program |
| Who: | All students with an interest are welcome to participate |

This student-led group is devoted to addressing the health care concerns of the local Asian population. To do so, students aim to educate themselves and other health care providers/students about Asian cultural norms, social conditions, and racial differences that influence their experience with medicine. In addition, ACOO aims to educate the local community and help address the health care concerns specific to this minority population by creating and implementing culturally and socially sensitive service projects for the Worcester Asian community.

| Big Brothers, Big Sisters |
|--|
| Community Link: Steve Crandall (SCrandall@BBBSCM.org) |
| Student Contacts: Bonnie Vallie (Bonnie.Vallie@umassmed.edu) |
| Matt Ingham (Matthew.Ingham@umassmed.edu) |
| |

| Where: | UMMS |
|--------|--|
| What: | Student-led Volunteer Opportunity |
| Who: | All students with an interest are welcome to participate |

Through a partnership with Big Brothers, Big Sisters, mentors from UMass Medical School are now able to participate in one of two programs. Most students involved elect to participate in Big Brothers Big Sisters in Schools at the Belmont Community School, where they visit with their little sibling for 1-2 hours each week. Some students volunteer as Community-based Big Siblings, spending 4-6 hours each week with their little sibling. The goal of these visits is to establish a meaningful relationship with goals specific to that child's needs. During a weekly visit, a child and a "Big" may play educational games, engage in recreational activities, or read a book together.



Center for Healthy Kids, The

| Student Contacts: Parag Goyal (Parag.Goyal@umassmed.edu) | |
|--|--|
| Rob Surawski (Robert.Surawski@umassmed.edu) | |

| Where: | UMMS |
|--------|---|
| What: | Student-led Volunteer Program |
| Who: | All students are invited to participate |

Through a partnership with the Great Brook Valley housing project, UMass students have created the Center for Healthy Kids - a place for the kids to go after school, have a healthy snack, and learn about nutrition in their daily lives. UMMS students teach the children about a variety of topics, including the food pyramid, serving sizes, healthy choices and fitness. This is also a good way to get a first hand understanding of the nutrition and activities challenges that may face your patients. This project is a perfect and easy way to balance out schoolwork by having fun with some great kids, and also provide a very valuable service to this community. There are also opportunities to get involved with tutoring, book reading and teaching yoga at the Center for Healthy Kids.

Dermatology Interest Group

Faculty Advisor: Thomas Cropley, MD and Amit Garg, MD Student Contacts: Erik Domingues (Erik.Domingues@umassmed.edu)

| Where: | UMMS |
|--------|--|
| What: | Student-led Interest and Volunteer Group |
| Who: | All students are invited to participate |

Goals/Objectives: To provide an overview of the field of dermatology, the diseases dermatologists treat and to teach the basics of dermatologic exams, pertinent to all specialties of medicine. We are also starting many community service projects related to skin care, cancer prevention, and increasing access to dermatologists for the uninsured. Lastly, the DIG would serve as a reference for those interested in pursuing dermatology as a career, and would also function as a focal point for those not interested in dermatology as a career but in the field itself for both clinical and basic science research.

| Disability Interest Group |
|--|
| Faculty Advisor: Dee O'Connor |
| Student Contacts: Tim Rooney (Timothy.Rooney@umassmed.edu) |
| Kate Cembrola (Katherine.Cembrola@umassmed.edu) |
| |

Where:UMMSWhat:Student-led Interest and Volunteer GroupWho:All students are invited to participate

The disability interest group was formed with the primary goal of educating fellow medical students about disability-related issues that will be important in providing the best care possible to their future patients. Some of the areas that the group will focus on include the primary disability, secondary medical conditions relating to disability, access to health care and the socioeconomic impact of living with a disability. Through group discussions with members of the community of individuals living with disabilities as well as health care providers from relevant fields of medicine, the group aims to help students become more prepared for working with patients with disabilities, to provide students with information about resources available to individuals with disabilities, and to raise awareness and sensitivity to disability issues.

Family Medicine Interest Group

Faculty Advisor: Heidi Shah, MD Student Contacts: Bonnie Vallie (Bonnie.Vallie@umassmed.edu) Tim Lin (Timothy.Lin@umassmed.edu)

| Where: | UMMS |
|--------|--|
| What: | Student-led Interest and Volunteer Group |
| Who: | All students are invited to participate |

The Family Medicine Interest Group (a.k.a. F-MIG) is dedicated to creating fun and informative activities centered on family medicine for all medical students. You may be certain that family practice is for you. You may want to be a specialist, or you may just be thankful you got into medical school! Nevertheless, you can benefit from attending the family medicine lunches and workshops. We give presentations on issues that every doctor should know something about—domestic violence, advocating for yourself and your patients, how to have a family and be a doctor. We wrap up each year with "Hands-On Night," where you will learn to draw blood, cast a leg, and suture a wound.

Free Clinics – Epworth, Hudson, & St. Anne's Student Contacts: Kyle Wood (Kyle.Wood@umassmed.edu) Jennifer MacDonald (Jennifer.MacDonald@umassmed.edu) Erik Domingues (Erik.Domingues@umassmed.edu)

| Where: | UMMS |
|--------|---|
| What: | Student-led Volunteer Program |
| Who: | All students are invited to participate |

The three free clinics offer medical services to the underserved and uninsured of the greater Worcester area. The clinics are staffed by volunteer physicians, physician's assistants, nurses, and social workers. Epworth Free Clinic includes a laboratory for blood and urine tests. St. Anne's offers services including physician visits, immunizations, medications, healthcare supplies, and access to health information. The Open Door Free Medical program in Hudson provides care to an area with a large Portuguese and Brazilian population and provides an opportunity for continued learning of Portuguese, including medical terms. All of the clinics rely on the participation of medical students to help meet the enormous need for their services. Every student in the preclinical years has the opportunity to volunteer their time. Aside from an opportunity to practice taking a patient history, performing portions of the physical exam, and doing phlebotomy, what keeps volunteers coming back is the experience of making an immediate difference in the lives of patients.

Flu Shot Clinics

Faculty Advisor: Robin Toft Klar, DNSc, RN (Robin.Klar@umassmed.edu) Student Contacts: Laura Hagopian (Laura.Hagopian@umassmed.edu) Jake Crowell (Jacob.Crowell@umassmed.edu)

| Where: | UMMS and GSN |
|--------|---|
| What: | Student-led Volunteer Program |
| Who: | All students are invited to participate |

Medical students are trained by GSN students to provide immunizations and subsequently participate in an annual Mass Flu Immunization clinic held for the Worcester community in October. The clinic was established through the collaborative efforts of the UMass Graduate School of Nursing, the UMass Medical School, the Worcester Department of Public Health, the Worcester District Medical Society, and Maxim Pharmaceutical. Planning is currently underway for this year's clinic which will be held at four distribution centers and provide approximately 10,000 vaccinations.

Generalist Physician Program

Faculty Advisor: Trisha Droney Student Contacts: Julia Nelligan (Julia.Nelligan@umassmed.edu) Joanna Suski (Joanna.Suski@umassmed.edu)

| Where: | UMMS |
|--------|-------------------------------|
| What: | Student-led Volunteer Program |
| Who: | UMMS students |

The Generalist Physician Initiative (GPI), originally funded by the Robert Wood Johnson Foundation, is a collaborative project of UMass Medical School, UMass Memorial Health Care, Worcester Medical Center and the Fallon Health Clinic. The GPI aims to increase the number of primary care physicians in practice throughout the state. The GPI hires students to serve in a GPI student liaison role, to support the development of student initiatives in primary care. Sponsorship of extracurricular activities of interest to primary care-oriented students, including National Primary Care Week activities, monthly student roundtable lunches, publication of a quarterly student newsletter are a few examples of GPP program initiatives aimed to enhance generalism among medical students. The GPP also sponsors the UMass Summer Community Assistance program, providing stipends to students who work in community-based health, educational and human service organizations during the summer months.

Geriatric Interest Group (GIG)

Faculty Advisor: Sarah McGee, MD Student Contacts: Katie Barry (Kathleen.Barry@umassmed.edu)

| here: | Where: UMMS |
|-------|-------------|

| What: | Student-led Interest Group and Volunteer Program |
|-------|--|
| Who: | All students with an interest are welcome to participate |

One of the earliest missions of GIG was to expose students to active, healthy older adults before they begin their clinical years. That interaction is still considered invaluable because virtually all physicians, regardless of specialty, treat and care for older adults. Aging is a natural process, but modern medicine still has difficultly differentiating between those biological changes and pathological processes. GIG works to educate both nursing and medical students about healthy older adults, as well as the special needs of the elder population through a variety of activities including meetings, guest lecturers, student and faculty dinners, and shadowing programs. GIG is also very active in the community, providing hands-on opportunities for students to interact with older adults. Previous opportunities included blood pressure, memory, ear wax, and osteoporosis screenings at the Greendale YMCA, which sponsors an Active Older Adults program.

Health Professionals for Human Rights

Faculty Advisor: Mary Ellen Keough, MD Student Contacts: Julia Randall (Julia.Randall@umassmed.edu) Roona Ray (Roona.Ray@umassmed.edu)

| Where: | UMMS |
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| What: | Student-led Volunteer Program |
| Who: | All students are invited to participate |

The goal of the University of Massachusetts chapter of Health Professionals for Human Rights is to promote awareness and activism for the protection of human rights. Our motivations are rooted in educating students, faculty, and patients at UMMS about the health inequalities that develop from social, economic, and political injustices. Malnutrition, poverty, preventable death and suffering are all violations of basic human rights, and as a group we aim to discuss and advocate ways to eliminate these injustices through action here at UMMS today and as physicians in the future. Recognizing health as a basic human right, we will inform present and future health care providers, researchers, and health care consumers of their rights as well as to raise their awareness of abuses of these rights occurring locally and globally. We intend to involve these individuals in ensuring that these rights be recognized and maintained for all people.

Know Your Status - Worcester

Faculty Advisor: Eric Garcia, MD

Student Contacts: Matt Ingham (Matthew.Ingham@umassmed.edu) CJ Vaughn (Carolyn.Vaughn@umassmed.edu)

| Where: | UMMS |
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| What: | Schweitzer Fellows Project |
| Who: | All students with an interest are welcome to participate |

This program aims to enhance access to free, anonymous HIV-testing, counseling and education in Worcester. Each semester, interested students are trained in testing and counseling at our community partner, AIDS Project Worcester. After certification, they provide the service at targeted community sites throughout the community, including free clinics, soup kitchens, shelters and substance abuse facilities. The project aims to reach populations identified as especially high-risk in the Worcester area, particularly substance abusers and certain immigrant populations. In addition to testing and counseling, there are fundraising and epidemiological tasks to pursue.

Marrow for Tomorrow Faculty Advisor: Emily Ferrara, MA Student Contacts: Miguel Concepcion (Miguel.Concepcion@umassmed.edu) Andrew Geller (Andrew.Geller@umassmed.edu)

| Where: | UMMS |
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| What: | Student-led Volunteer Program |
| Who: | All students are invited to participate |

Marrow for Tomorrow (MFT) is a student group committed to recruiting more donors into the national bone marrow registry. Our singular goal is to ensure that as many patients as possible receive the lifesaving bone marrow transplant they need. To further this end, MFT has received a grant from the American Association of Medical Colleges to help fund an exciting series of projects, ranging from making a professionally-edited bone marrow promotional video to organizing an after-school seminar about bone marrow donation at Worcester's North High School. There's a tremendous shortage of willing donors, especially in the medically underserved communities and Marrow for Tomorrow wants to change that.

| Massachusetts Medical Society (MMS) | |
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| Faculty Advisor: Michele Pugnaire, MD | |
| Student Contacts: Karen Buch (Karen.Buch@umassmed.edu) | |
| Kristen Ettensohn (Kristen.Ettensohn@umassmed.edu) | |

| Where: | UMMS |
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| What: | Interest Group & Volunteer Program |
| Who: | All students with an interest are welcome to participate |

UMass provides strong representation in the Medical Student Section of the Massachusetts Medical Society (MassMed). MassMed is an organization for physicians, residents, and medical students in Massachusetts, and has ties to the American Medical Association (AMA), a national organization for political and lawmaking efforts. As the UMass chapter in the Medical Student Sections of these organizations, students have the opportunity to be involved at any or all levels - chapter, state, national. The purposes of this organization include education of students about health policy, informing students and the community about relevant changes to the health care system and its current state, implementing community health projects, and encouraging active participation in health policy. An example of a program initiated by UMass students is the implementation of a rapid-HIV testing site at one of the free clinics where UMass students volunteer. At the state level, students from all four Massachusetts medical schools meet monthly to discuss state and national health-related policy and legislative actions, as well as upcoming local, regional and national events. Students also have the opportunity to attend biannual AMA meetings to discuss national policy with medical students from across the country.

Mustard Seed Kitchen

Student Contacts: Laura Sullivan (Laura.Sullivan@umassmed.edu)

| Where: | UMMS |
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| What: | Student-led Volunteer Program |
| Who: | All students are invited to participate. |

The Mustard Seed is a community meal site where supper is served daily to indigent Worcester families. Medical students prepare and serve dinner once a month, using food donations from UMMS and baked goods provided by the students. Each meal serves 150-200 people. Participation in the Mustard Seed Kitchen provides students with the opportunity not only to provide a service to an underserved segment of the Worcester community, but also an experience through which they can learn about hunger and poverty issues. The experience is greatly appreciated and also very rewarding. The Mustard Seed Kitchen is student initiated and student run.

Office of Science Education

Sandy Mayrand, Regional Science Resource Center, 508-856-5097 Robert Layne, MEd, 508-856-4559

| Where: | UMMS, GSN, GSBS |
|--------|--|
| Who: | All students are invited to participate. |

UMass students participating in the Office of Science Education outreach programs conduct science and career activities that complement the K-12 school curricula or engage young students outside the school setting. A major effort is the Worcester Pipeline Collaborative (see detail in separate description) that works with elementary, middle and high school students from the Worcester Public Schools. Additional opportunities are available to bring engaging science programs to classrooms or to interact with K-12 students when they visit UMass Medical School. The Office of Science Education continually creates new approaches in which UMass students interact with K-12 students. In the past, these have included mentoring programs, a Science Olympiad and summer science camps in community settings.

Patches of Love

Faculty Advisor: Lynn Manfred, MD Student Contacts: Julie Lee (Julie.Lee@umassmed.edu) Deborah Liptzin (Deborah.Liptzin@umassmed.edu)

| Where: | UMMS |
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| What: | Student-led Volunteer Opportunity |
| Who: | All students are invited to participate. |

Patches of Love is a student group, as well as a non-profit organization that collects and hand makes patches and puts them together into personalized quilts for international orphans. Students involved in the organization will have an opportunity to travel to an orphanage abroad to deliver the quilts, medical supplies and possibly provide medical care to the children, with supervision by an accompanying doctor. We have traveled to South Korea, India, and Guatemala. This past spring students traveled to an orphanage in Venezuela.



Pediatric Book Buddies Faculty Advisor: Tim Gibson, MD Student Contacts: Laura Hagopian (Laura.Hagopian@umassmed.edu)

| Where: | UMMS |
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| What: | Student-led Interest Group & Volunteer Opportunity |
| Who: | All students with an interest in pediatric care are welcome to participate |

After orientation with Child Life and with volunteer services, students sign up to spend an hour in the evening reading to patients in the hospital. Participating students are encouraged to commit a minimum of one hour per month to the program. A greater commitment of time is up to the individual student.

Pediatric Interest Group

Faculty Advisor: Timothy Gibson, MD Student Contacts: Jen MacDonald (Jennifer.MacDonald@umassmed.edu) Bonnie Vallie (Bonnie.Vallie@umassmed.edu)

| Where: | UMMS |
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| What: | Student-led Interest Group |
| Who: | All students are invited to participate |

The Pediatric Interest Group brings together students who are interested in learning more about the pediatric medical field. We aim to have several informational lunches and dinners throughout the school year. One of our main events in the fall is the pediatrics diabetic Halloween party. We also currently offer a chance to participate in pediatrics "mini-rounds" with Dr. Gibson--students shadow Dr. Gibson as he introduces you to his patients and their medical conditions on the inpatient floor.



Psychiatry Interest Group

Faculty Advisor: Deborah Field, MD Student Contacts: Julia Nelligan (Julia.Nelligan@umassmed.edu) Margaret Tuttle (Margaret.Tuttle@umassmed.edu)

| Where: | UMMS |
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| What: | Student-led Interest Group & Volunteer Program |
| Who: | All students with an interest are welcome to participate |

PSIG is the psychiatry interest group at UMass Medical School. Its mission is to collaborate with professionals in the psychiatric field, advocate for mental health issues, broaden students' academic understanding of psychiatric diseases and treatments, and to help and educate the community on mental health awareness and available resources. PSIG provides medical students with information about opportunities through the UMass psychiatry department, and keeps students informed of regional and national events through professional organizations such as the American Psychiatry Association. Students have the opportunity to attend discussions with psychiatry residents in a series called "Coffee with a Resident" and to learn from visiting speakers. PSIG is committed to community outreach in addition to its academic and professional goals. Through PSIG, students provide mental health resources for the Central Massachusetts homeless community with the Homeless Outreach and Advocacy Project (HOAP), and are currently planning a mental health educational campaign in May for Mental Health Awareness Month.

| |] | QMASS Faculty Advisor: Emily Ferrara, MA |
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| Student Contacts: Caitlin Connolly (QMASS@umassmed.edu) | | • • • |
| Shereen Mohiuddin (QMASS@umassmed.edu) | | Shereen Mohiuddin (QMASS@umassmed.edu) |

| Where: | UMMS |
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| What: | Student-led Interest Group & Volunteer Opportunity |
| Who: | All students with an interest are welcome to participate |

QMass is a student-driven gay-straight alliance with extensive collaboration with UMass staff and faculty. The group is geared toward GLBT students and allies coming together in order to produce a supportive and accepting environment. The group strives to ensure that GLBT health is covered adequately and appropriately in the medical school curriculum and that UMass creates an open and accepting environment for GLBT healthcare professionals, researchers, staff, students, and patients. Activities include collaborating with professors to integrate GLBT health issues into the medical school curriculum, and organizing events designed to educate and raise awareness about healthcare issues specific to gay, lesbian, bisexual, and transgendered (GLBT) patients. QMass is highly involved in community outreach. Students speak for PFLAG (Parents, Family, and Friends of Lesbians and Gays) and volunteer with the Department of Education's Safe Schools Program whose goal is to provide a safe environment for any GLBT or questioning youth at all Massachusetts high schools. QMass is also involved with Safe Homes (an organization for troubled GLBT youth) and gay-straight alliances in the local high schools.

Refugee School Mentoring

Student Contact: Jaclyn Boulais (Jaclyn.Boulais@umassmed.edu) Josue Chery (Josue.Chery@umassmed.edu)

| Where: | UMMS |
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| What: | Student-led Volunteer Opportunity |
| Who: | All students are invited to participate |

Now in its fourth year, the Refugee Tutoring program helps refugee children of all ages and backgrounds who are struggling in school. Volunteers work with the Catholic Charities Resettling Agency of Worcester to identify children who are in need of extra help with their schoolwork. The program started with just a handful of medical students and a few families and has now expanded to three locations in Worcester with 30 children and 25 tutors. Each child receives one-on-one tutoring from a medical student who also acts as his/her mentor. The program also offers many social events and field trips throughout the year. Some of the past events have included picnics, going to Chuck E. Cheese, trips to the Ecotarium and apple-picking excursions.

| Student National Medical Association (SNMA) |
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| Faculty Advisor: Danna Peterson, MD |
| Student Contacts: Jochebed Pink (Jochebed.Pink@umassmed.edu) |
| Myrlene Jeudy (Myrlene.Jeudy@umassmed.edu) |
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| Where: | UMMS |
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| What: | Student-led Interest Group & Volunteer Program |
| Who: | All students with an interest are welcome to participate |

SNMA Mission Statement: Student National Medical Association (SNMA) is committed to supporting current and future underrepresented minority medical students, addressing the needs of underserved communities, and increasing the number of clinically excellent, culturally competent and socially conscious physicians. At UMass, SNMA coordinates refugee tutoring, in which UMass students tutor middle and high school students in Worcester; science hands-on night, which gives local students a chance to experience medical school for a night; a pediatric Halloween party, thrown for children with diabetes; MAPS, the Minority Association of Premedical Students; as well as other activities.

Well Being Newspaper, The Student Contacts: Darrah Doyle (Darrah.Doyle@umassmed.edu) Jay Lawrence (Jay.Lawrence@umassmed.edu)

| Where: | UMMS |
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| What: | Student-led Volunteer Program |
| Who: | All students with an interest are welcome to participate |

The Well Being is a student-run newspaper that brings preventive medical information to underserved patients in the Worcester area. The newspaper is published in English, Spanish and Portuguese and is free of charge. There are a number of ways to contribute to the paper including several leadership positions, such as Distribution Manager, Community Resource Coordinator, and specialized Editor and Correspondent positions (e.g. Physical Activity & Obesity Editor). The newspaper is a collaborative, interdisciplinary effort by medical students, physicians, UMMS faculty, allied health professions students and providers, health and social service agencies, and community members. It's a great opportunity to get to know the public health landscape in Worcester and to work with a diverse team of people in addressing the needs of Worcester's underserved patients. All are welcome!

Worcester Nursing Pipeline Consortium Jill Terrien, PhD, APRN, BC, ANP, ACNP (Jill.Terrien@umassmed.edu)

Where:UMMS, GSN, CommunityWho:All students are invited to participate

The mission of the Worcester Nursing Pipeline Consortium (WNPC) is to increase enrollment, retention, graduation and academic advancement of qualified nursing students and nurses committed to improving health care in Central Massachusetts. In partnership with nursing schools at all levels of nursing education within Central Massachusetts, as well as clinical and community partners, the WNPC seeks to increase access to all levels of nursing education through the recruitment and retention of qualified prospective students committed to improving health care; promoting the image of nursing as a health career through the WNPC in partnership with health care agencies, institutions, schools and communities; and linking nursing schools within Worcester and Central Massachusetts to expedite career advancement among qualified and talented students.

Academic Partners: Quinsigamond Community College, Graduate School of Nursing, Worcester State College and Becker College.

Community and Clinical Partners: Worcester Pipeline Consortium, Worcester Area Health Education Center and UMass Memorial Health Care.

Worcester Pipeline Collaborative Mentoring Program Robert Layne, MEd, Coordinator, 508-856-4559 Carol Santini, Mentor Coordinator, Minority Student Affairs, 508-856-4557

Where:UMMS, GSN, GSBSWho:All students are invited to participate

The Worcester Pipeline Collaborative encourages, educates and challenges economically disadvantaged and/or minority students for success in the health care and science professions. The focus of the program is on increasing academic preparedness and career awareness among K-12 students in Worcester. In addition to the Pipeline Science Laboratory and Technology Center, where participants investigate interesting approaches to learning math and science, the Collaborative encourages UMass students, faculty and staff to work with students and teachers at school sites. Through visits, shadowing and internship placements at UMass, many public school students are able to realize "real world" experiences that can lead them to pathways including health care and science careers.

The Worcester Pipeline Collaborative offers many rewarding experiences for UMass students, faculty and staff to support Worcester Public School students. Interested UMass volunteers may assist K-12 students in an array of activities, including mentoring, academic tutoring, projects fair coaching, after school health/science club interns, speaker's bureau presentations, and teaching through the visiting scientist program.

III. Optional Enrichment Electives

At UMMS, an elective is defined as a structured learning experience in a field of medicine or the biomedical sciences that is approved by the faculty of the school, but which is not required as part of the basic medical school curriculum. The elective opportunities at UMMS are notable for the breadth of topics they cover. Listed in this compendium are several that often include a service-learning component.

Adoption and Foster Care: Considerations for Medical Practice Center for Adoption Research

| Where: | UMMS |
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| What: | Optional Enrichment Elective |
| Who: | All students are invited to participate |

This elective is sponsored by the Center for Adoption Research. The course is designed to help students develop their clinical skills to work with children in foster care, foster parents, birthparents, adoptive parents, and individuals who were adopted; to introduce awareness of the biological, psychological, and social issues related to adoption and foster care; to provide an opportunity for participants to consider their own attitudes about adoption and foster care; to introduce awareness of community resources available for patient education and referral; and to allow students to consider research directions related to adoption and foster care. The course meets for 8 weeks for 1.5 hours per week, and is taught by faculty from both the Center for Adoption Research and the Medical School. For further information on this elective contact the Center for Adoption Research.

American Sign Language

Susan Pasquale, PhD, Office of Medical Education Student Leader: Kim Bombaci (Kimberly.Bombaci@umassmed.edu) Roona Ray (Roona.Ray@umassmed.edu)

| Where: | UMMS |
|--------|---|
| What: | Optional Enrichment Elective |
| Who: | All students are invited to participate |

This elective offers students beginner and intermediate level American Sign Language (ASL), a visual/gestural language used by Deaf people in the United States and Canada. Students develop receptive and expressive skills in ASL. The students learn basic rules of grammar, general vocabulary, vocabulary specific to the medical setting, as well as the use of facial expressions, and body movements. The course also focuses on the proper use of a qualified interpreter in the medical setting. In addition to role-playing of medical situations and of how to resolve some communication problems, there are class discussions, and guest lectures, as well as an opportunity to meet several Deaf people from the Deaf Community.

Basic Skills for Working with Smokers

| Where: | UMMS |
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| What: | Optional Enrichment Elective |
| Who: | All students are invited to participate |

The purpose of this course is to prepare students in the health professions: to educate patients about the health risks of tobacco use; motivate those who seek treatment; and advise patients about basic treatment strategies, including pharmacotherapy. Upon course completion, a student will be able to administer a brief intervention using the "5 As". The course provides an overview of the information and skills necessary to treat nicotine dependence.

The course includes two components. The first component is an eight-module online course that provides background on the health consequences of smoking, appropriate use of pharmacotherapy, and information about

how to conduct a brief 5A intervention for patients who use tobacco. The second component is "putting the course into action" at the student's preceptor's office. The student also will observe the systems used in the preceptor's office for tobacco education and smoking cessation and complete an assessment of them.

| Caring for th | ne Seriously III | |
|---|------------------------------|--|
| David M. Cli | ve, MD, | |
| Marjorie A. Clay, PhD, | | |
| Renal Medicine/Dialysis and Department of Ethics | | |
| To register, contact Anne Winslow at 508-856-6397 | | |
| | | |
| Where: | UMMS | |
| What: | Optional Enrichment Elective | |

Who: All students are eligible to participate, with a maximum enrollment of 50 students chosen on a first-come, first-served basis

This course is aimed at familiarizing medical students with key issues in the care of patients with life-threatening and terminal illness. The objectives of the course are:

- To stimulate students to approach the subject of death from a variety of perspectives
- To enhance the student's comfort in talking with dying patients
- To encourage the student to recognize his/her own feelings about death and how they affect relationships with dying patients

The topics of the seven sessions held in AY2006 included: (1) The Dying Process, (2) Breaking Bad News, (3) Palliative Care, (4) Advance Directives, (5) Childhood End-of-Life Issues, (6) Spirituality, and (7) Bereavement and the Grieving Process.

Complementary and Alternative Medicine

Student Leaders: Sarah-Jo Stimpson (Sarah-Jo.Stimpson@umassmed.edu) Lia Withington (Lauren.Withington@umassmed.edu)

| Where: | UMMS |
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| What: | Optional Enrichment Elective |
| Who: | All students are invited to participate |

The goal of this elective is to expose allopathically-trained medical students to various complementary and alternative treatment modalities. This exposure will allow future physicians to better communicate with patients about complementary and alternative medicine. It will also help future physicians make better-informed medical decisions regarding patients who may already be involved in, or may benefit from, such modalities.

Specific objectives include:

- Knowledge of the underlying principles of each treatment modality
- Knowledge of clinical applications of each treatment modality
- Knowledge of Evidence Based CAM
- Awareness of the cultural relevancy of alternative treatment and practices
- Appreciation of current research topics involving complementary and alternative medicine
- Familiarity with some available resources for physicians and patients

Creative Writing to Enhance Learning

David Hatem, MD, UMMHC, Medicine/Primary Care, 508-856-5972 Emily Ferrara, MA, Office of Medical Education, 508-856-5134

| Where: | UMMS/GSN |
|--------|---|
| What: | Optional Enrichment Elective |
| Who: | 2 nd year medical students/Nurse Practitioner Students |

The focus of this elective for second year medical and GSN students is to explore several different forms of writing (essays, creative nonfiction, poetry and short fiction) to sharpen participants' skills of observation, description and analysis, and to enhance their ability to understand the experience of becoming a doctor. Becoming mindful and writing about encounters with patients and with other health care providers facilitates participants' understanding of how these events influence their personal and professional development. The course is taught by an interdisciplinary faculty team, and meets bi-weekly, for seven sessions, each 1.5 hours in length. The course is an optional enrichment elective for medical students.

Law, Ethics and Medicine

| Where: | UMMS |
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| What: | Optional Enrichment Elective |
| Who: | All students are invited to participate |

This elective will provide students with an understanding of some of the legal and ethical issues they are likely to encounter as healthcare providers.

By end of the elective, students will:

- Understand the origins of law, its structure, and how it is related to ethics
- Understand what is involved in a malpractice case: its process (what happens) and the perspectives of each side (the litigants and the defense)
- Understand the ironies and complexities of legislating and enforcing confidentiality
- Understand the legal status of three currently controversial topics: the "right to die" (Schiavo case), reproductive rights, and the insanity defense

Maternal and Child Health Optional Enrichment Elective Lynn Manfred, MD, Pediatrics, 508-856-3102

| Where: | UMMS |
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| What: | Optional Enrichment Elective |
| Who: | 3 rd year Pediatrics and OB/GYN clerkship students |

This optional enrichment program is taken during the Pediatrics and OB/GYN Clerkships in the third year of medical school. The students are assigned two private patients, whom they follow through the last several weeks of their pregnancy, attending the labor and delivery, and postpartum visits for the mom and the baby. Students take first line call for their patients, responding to common questions about pregnancy, labor, delivery and postpartum care of the mother, as well as issues that arise in the first few weeks of the baby's life. Senior OB/GYN and Pediatrics faculty, as well as social work support are available for the students through a seminar series which runs concurrently with the twelve-week clerkship. The majority of this program takes place at UMass Memorial Medical Center—Memorial Campus.

Medical Interviewing in Spanish

Susan Pasquale, PhD, Office of Medical Education Student Leaders: Laura Sullivan (Laura.Sullivan@umassmed.edu) Joanna Suski (Joanna.Suski@umassmed.edu)

| Where: | UMMS – sponsored by the Office of Medical Education |
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| What: | Optional Enrichment Elective |
| Who: | All students are invited to participate |

This is an Optional Enrichment Program that gives students the opportunity to learn and practice Medical Spanish. This program was initiated by and is currently run by students. The course offers four learning activities for students:

- Interviewing Sessions-monthly meeting with a standardized, Spanish-speaking patient and medical interpreter to practice interviewing skills
- Cultural Awareness Sessions-monthly large group discussions with Spanish-speaking community members. Topics range from youth issues, community support services, geography and cultural issues in medicine
- Grammar Reviews-monthly sessions focused specifically upon grammar
- Interpreter Job Shadowing-optional program offered at UMass Memorial Medical Center—Memorial Campus

Participants in the course must be conversant, although not necessarily fluent, in Spanish. There is no charge, and attendance is required for credit to be given to the student.

Money, Power, and Medicine Bruce Meyer, MD

Department of Obstetrics and Gynecology

| Where: | UMMS |
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| What: | Optional Enrichment Elective |
| Who: | All students are invited to participate |

By the end of the elective student will have an understanding of the following:

- How care is turn into cash at the physician and hospital levels
- The insurance and financing of medical malpractice
- Leadership and administrative structures of health care environments
- Different practice settings and their advantages and disadvantages

Rural Health Scholars Program

Suzanne Cashman, ScD, 508-856-2930 Joseph Stenger, MD, 978-355-6321/508-882-5572 Department of Family Medicine and Community Health

| Where: | UMMS |
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| What: | Optional Enrichment Elective |
| Who: | First and second year students who make a multiyear commitment to the program |

This optional longitudinal pathway has been developed with support from the Statewide Area Health Education Center, the Office of Community Programs and the Department of Family Medicine and Community Health. Established in 2000, the program provides enrichment opportunities for students who want to explore future medical practice in rural areas and/or small towns. The pathway shapes and combines required curricula in the preclinical years with summer experiences and clinical clerkships that help students become acquainted with and develop experience practicing in rural and small town areas. Examples of student experiences include:

- Luncheon seminars that focus on issues and skills relevant to practice in rural and small town areas (primarily 1st and 2nd year students)
- Assignment to a preceptor in the Longitudinal Preceptor Program who practices in a small town or rural area (1st and 2nd year students)
- Community medicine clerkship experience in one of the state's rural areas (1st year)
- Summer pre-clinical community service or research projects that focus on health issues related to rural areas or small towns (between 1st and 2nd year students)
- Family Medicine Clerkship with a physician in a rural area or small town (3rd year)
- Clinical elective opportunities in rural areas or small towns
- Senior scholar projects related to issues relevant health and medical care in rural and small town areas
- Attendance at the annual New England Rural Health Roundtable Conference

Through participation in this program, students begin networking with physicians and other health care providers and administrators who are working to improve the health of residents in their rural and small town communities. Additionally, students have an opportunity to benefit from mentors who practice in these communities.

Teen Pregnancy: Medical and Psychosocial Perspectives

| Where: | UMMS |
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| What: | Optional Enrichment Elective |
| Who: | All students are invited to participate |

This elective will familiarize 1st and 2nd year students with the physiology of pregnancy, especially pregnancy during the teenage years. It will not only introduce the student to psychosocial issues associated with teen pregnancy, including risk factors, outcomes and general epidemiology it will also introduce the student to special concerns the clinician should have regarding the pregnant and parenting teen. It will provide "field experience" for students involving direct work, for example tutoring or mentoring, with a pregnant or parenting teen.

The Bigger Picture: Health Issues Affecting the Community of Worcester Suzanne Cashman, ScD, 508-856-2930 Department of Family Medicine and Community Health

| Where: | UMMS |
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| What: | Optional Enrichment Elective |
| Who: | All students are invited to participate |

The goal of this optional enrichment course is to expose medical and nursing students at UMass to the health needs of the community in which they live, study, and train, with a particular focus on underserved communities. In traditional medical training, students see only individual patients, and are not exposed to the problems of the community within the broader context. The Bigger Picture optional enrichment course aims to augment the elements of the University of Massachusetts Medical School curriculum which prepare students to address future patients' needs holistically, such as the unique Community Health Clerkship (CHC), the Patient, Physician and Society course, and the "Physician as Patient and Community Advocate" core competency, among numerous other opportunities.

Understanding and Improving Our Health Care System Suzanne Cashman, ScD, Department of Family Medicine and Community Health, 508-856-2930 Jay Himmelstein, MD, MPH, Center for Healthy Policy and Research Student Leader: Jay Lawrence (Jay.Lawrence@umassmed.edu)

Where: UMMS

| What: | Optional Enrichment Elective |
|-------|---|
| Who: | All students are invited to participate |

This elective will provide students will a basic understanding of how the health care system works, as well as integrate health care policy issues to prompt physician advocacy. This elective couples lectures with clinical correlations and allows students to ask the questions that we all have about how the system works. This elective will address access to health care, rising costs, current events, policy, and advocacy among other things.

IV. Fourth Year Electives

Recognizing that medicine is a highly complex and diversified field, and that the needs and interests of medical students are quite varied, the University of Massachusetts Medical School emphasizes a strong elective program that complements the required areas of study. With the advice of their clinical advisors, students plan a fourth-year program that helps them meet their goals for their educational experiences and/or postgraduate goals.

Ambulatory Student Health

Chris Purington, MD, Family Medicine and Community Health, 508-334-8828

This multidisciplinary ambulatory student elective involves caring for college students at three universities in Worcester: The College of the Holy Cross, Clark University and Worcester Polytechnic Institute (WPI). This elective focuses on health promotion, disease prevention and psychosocial aspects of health in adolescents and gives students experience in a wide range of acute and chronic health problems, including: infectious disease, trauma, dermatology, eating disorders, women's health, sports medicine, outpatient surgery and substance abuse.

Care of the Chronically Ill Infant and Child in the Home Environment Robert Zwerdling, MD, Pediatrics, 508-856-4155

The goal of this four-week elective is to familiarize students with the unique features of caring for the chronically ill, technology dependent infant and child in the home and community. Students are linked to patients and families through the Pediatric Pulmonary and Cystic Fibrosis Center. In this elective, students learn about the role of community service agencies and third party payers in caring for the chronically ill infant and child, as well as gaining understanding of and skill with the traditional medical issues.

Community Psychiatry

Marie Hobart, Psychiatry, 508-860-1025

The goals of this four-week elective are to:

- Expose students to the special challenges and satisfactions of community and public sector psychiatry
- Develop skills in the recognition, diagnosis, and treatment of the more severe and chronic mental disorders and substance abuse
- Increase students' knowledge of the diverse treatment options available in the community including case management, outreach, day treatment, residential treatment, respite care, social and vocational rehabilitation, and supportive/psycho-educational therapies
- Develop skills in the psychopharmacologic management of severe thought and mood disorders
- Help students appreciate the importance of integrating biological, psychological, social and systems perspectives for understanding severe and chronic mental disorders and substance abuse
- Increase students' understanding of strategies they can use to assist patients achieve the highest level of independent functioning and maximum fulfillment

Students achieve these skills by providing outpatient services to mentally ill patients in one of three areas of Community Healthlink: outpatient mental health and substance abuse and PACT (Program for Assertive Community Treatment), Homeless Outreach Advocacy Project (HOAP), day treatment and geriatrics. Community Healthlink is a public sector; ambulatory care setting that provides a wide variety of programs for 17,000 children, adolescents, adults and elders dealing with mental illness, substance abuse, developmental disabilities and/or homelessness.

Family Practice

Robert A. Baldor, MD, Family Medicine and Community Health Call Denise West at 508-856-6645 This four-week elective places medical students in a family medicine site of their choosing (rural, urban, private practice, health center, etc.). The goals of the elective are to develop the student's ability to use the family medicine approach to problem solving and clinical decision-making, to advance the student's knowledge of the clinical context of family medicine, and to expose the student to another style of family practice that can be contrasted with her/his experience in the core clerkship.

Geriatric Medicine Sarah McGee, MD, Medicine, 508-793-6611

The goal of this elective is to give students experience in all aspects of Geriatric Medicine, not only medical, but also ethical, economic and social aspects. Students gain experience in nursing home practice, home care, inpatient and consultative care. Students learn through participation in a home care agency, nursing home practice, skin care team, home visits, geriatric consultation and evaluation clinic, as well as a care giver support group.

Health Care for the Homeless

Erik Garcia, MD, Family Medicine and Community Health, 508-856-7897

This elective places students in settings where health care is provided to homeless persons. Through participation in this elective the students gain insight into the issues faced by the medically underserved and address why conventional health care delivery systems rarely work well for homeless persons. Students also experience how physicians interact with nurse practitioners, nurses, caseworkers, and mental health and substance abuse workers to provide comprehensive care to the homeless population. Students have the option of participating in the Homeless Outreach and Advocacy Project (HOAP) as part of this four-week elective.

Indian Health Service

Mick Godkin, PhD, Family Medicine and Community Health, 508-856-3917

This four-week elective exposes students to the model of care provided by the Indian Health Service at various sites in the Southwest, Northwest and Alaska. This elective provides students with a multidisciplinary experience in primary care, usually associated with a community hospital-based inpatient experience.

Medically Underserved Preceptorships

Eric Garcia, MD, Family Medicine and Community Health, 508-856-7897

A number of local, national and international sites are available as preceptorship sites where the student has the opportunity to observe and assist in care to medically underserved populations. The goals of these individualized electives are for the student to (1) learn to provide optimal care within economic and political constraints, (2) be exposed to another system of medical care in a setting different from that found in a tertiary care hospital in the United States, (3) be exposed to a wide range of primary health care problems at the community/local level, (4) enhance her/his appreciation of and sensitivity to the problems of the medically underserved, and (5) be introduced to the broader perspective of community needs with an emphasis on strategies for disease prevention.

Rural and Island Health Care

Suzanne Cashman, ScD, Family Medicine and Community Health, 508-856-2930 Joseph Stenger, MD, Family Medicine and Community Health, 978-355-6321/508-882-5572

Through this four-week elective, students have an opportunity to experience family practice in a rural or small town community. Students gain an appreciation of and understanding for the challenges and rewards of practicing in communities that are less resource rich than those to which they have become accustomed in their preceding years of medical education. Office practice, inpatient and nursing home admissions and rounds, as well as home visits form the core of the elective. Issues related to access to the continuum of services patients need provide an underlying theme. For students choosing to take this elective on the island of Martha's Vineyard or Nantucket, these issues take on unique significance. Placement sites frequently help defray student costs, particularly those related to housing.

V. Field Study, Internships, and Research Opportunities

Field study and internships are usually co- or extra-curricular experiences in which students gain handson knowledge in a specific area of interest. For example, a student interested in understanding the relationship between second-hand smoke and childhood asthma may initiate a field study project to examine these issues in public housing. The primary focus of field study and internships is on the student's understanding of the topic being studied; the needs of underserved communities may or may not be addressed. Field study and internships may or may not involve monetary compensation for the students.

Live Science: Summer Science Fellowship for Secondary School Science Teachers - MS629 Anthony Carruthers, PhD, Dean Graduate School of Biomedical Sciences 508-856-4135

Where:GSBSWho:Science teachers in the community

This course is designed to introduce science teachers to the current state of medical research through a weekly lecture/seminar series and hands-on research experience in a laboratory under the direct supervision of a faculty member. The fellow becomes familiar with the concepts and techniques in several areas of research and gains a working knowledge of specific methods and equipment by participating in a particular, on-going research project.

Medical Education Summer Research Fellowship Program Mick Godkin, PhD, Director Tony Poteete, PhD, Co-Director

| Where: | UMMS, Sponsored by the Office of Medical Education |
|--------|---|
| Who: | 1 st and 2 nd year medical students |
| When: | Summer |

The goal of the Medical Education Summer Research Fellowship Program is to increase the number of UMMS graduates who include research as a tract in their careers. Specific goals of the program are to provide students with the opportunity to learn about and implement the basic steps of biomedical and behavioral research, to provide role models who are excellent researchers and who can convey enthusiasm for conducting research, to create a sense of belonging to a research community, and to develop students' interest in conducting research.

| National Science Foundation Summer Undergraduate Research Program and National Institutes of Health | |
|---|--|
| Summer Research Fellowship Program for Minority Students | |
| Karen J. Zirpola, Coordinator, School Services 508-856-5033 | |
| Robert O'Connell, PhD, Director, Department of Physiology | |
| National Institutes of Health Research Fellowship Program for Minority Students | |
| Deborah Harmon-Hines, PhD and Janet Stein, PhD, Co-Directors | |
| | |

Where: NSF program is available to undergraduates who are citizens or permanent residents of US or its possessions. NIH program is available to the entire UMass minority student community who are citizens or permanent residents of US; undergraduates or graduate students.
Who: Please see the program administrator to learn if you are eligible to participate

UMass Worcester offers two summer research programs for undergraduates. The programs run simultaneously for ten weeks (early June through early August). Summer fellows are placed in host laboratories and given their own research projects. Additionally, summer fellows are paid stipends, required to attend research lectures and seminars, and present posters at the Closing Poster session in August. Program information and applications may be

downloaded from the joint website, http://www.umassmed.edu/summer/ These programs are competitive, non-credit programs.

Senior Scholars Research Project Anthony J. Rothschild, MD, Director of Senior Scholars Program Judith Savageau, MPH, Co-director, Senior Scholars Program

Where:UMMSWho:4th year students

Senior students may participate in a voluntary, department-based independent study project which strengthens the student academically and affords the student in-depth exposure to an area of clinical interest. The Senior Scholars projects are not funded. Any support for students comes from the individual investigators who offer to serve as mentors.

Summer Undergraduate Research Program

John L. Sullivan, MD, Director, Office of Research For application materials, contact Joan Lynch, Program Coordinator, 508-856-1572

The Office of Research Summer Undergraduate Research Fellowship Program is a non-credit, ten-week, research experience. The program invites undergraduate students with strong science backgrounds to explore careers in biomedical research. The program is designed to provide participants in-depth exposure to the actual practice of scientific research. Students participate in a hands-on scientific setting with an investigator serving as a mentor, role model and advisor. Participants receive a stipend and are awarded a certificate. All participants are required to submit an abstract and to participate in the poster session at the end of the program.

For more information about Service-Learning at the University of Massachusetts Worcester, please contact one of the following members of the Service-Learning Committee:

Michael E. Huppert, MPH Director and Associate Dean for the Office of Community Programs (508) 856-3255

Suzanne Cashman, ScD

Associate Professor, Department of Family Medicine & Community Health (508) 334-2246

For general information about this publication, please contact Jessica Velez: Jessica.Velez@umassmed.edu