GLOBAL HEALTH
AT YALE SCHOOL OF MEDICINE
2016-17 ELEVENTH EDITION
## TABLE OF CONTENTS

| Introduction | 3 |
| Getting Involved in Global Health at Yale | 3 |
| In the Classroom: Courses | 4 |
| Global Health Foundations | 4 |
| Topics in Global Medicine | 7 |
| Global Mental Health | 8 |
| Yale Pediatric Global Health Track | 10 |
| Global Health Courses at Yale | 11 |
| Global Health Leadership Institute | 11 |
| Certificate in Global Medicine | 13 |
| At the University: Lecture Series, Conferences | 16 |
| Lecture Series | 16 |
| Conferences 2016-17 | 17 |
| Research Opportunities | 18 |
| Faculty Research Mentors at Yale | 18 |
| Funding Research in International Settings | 34 |
| Short Term Research Funding | 34 |
| Year Long Research Funding | 40 |
| Clinical Elective Experiences in International Settings | 45 |
| Funding Clinical Electives in International Settings | 59 |
| Opportunities in the “Fifth Year” for Global Health | 66 |
| Using Global Health Principals in the New Haven Community | 67 |
| Opportunities for Service | 67 |
| Language Opportunities | 74 |
| Student Organizations | 75 |
| Listservs | 76 |
| Preparation for Global Health Experiences | 77 |
| International Medical Students | 79 |
| Visiting Student Elective Program Overview | 79 |

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## TABLE OF CONTENTS

| Introduction | 3 |
| Getting Involved in Global Health at Yale | 3 |
| In the Classroom: Courses | 4 |
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| Global Mental Health | 8 |
| Yale Pediatric Global Health Track | 10 |
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| Global Health Leadership Institute | 11 |
| Certificate in Global Medicine | 13 |
| At the University: Lecture Series, Conferences | 16 |
| Lecture Series | 16 |
| Conferences 2016-17 | 17 |
| Research Opportunities | 18 |
| Faculty Research Mentors at Yale | 18 |
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| Year Long Research Funding | 40 |
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| Funding Clinical Electives in International Settings | 59 |
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| Opportunities for Service | 67 |
| Language Opportunities | 74 |
| Student Organizations | 75 |
| Listservs | 76 |
| Preparation for Global Health Experiences | 77 |
| International Medical Students | 79 |
| Visiting Student Elective Program Overview | 79 |
INTRODUCTION

Getting Involved in Global Health at Yale

We have created this guide to help you navigate global health opportunities at Yale School of Medicine.

One place to start is the Office of International Medical Student Education (OIMSE). The office was established in 2006 to facilitate opportunities for medical students to experience medicine as it is practiced throughout the world and to enrich the learning environment at YSM by providing opportunities for students from international schools to come to Yale for clinical electives. Dr. Robert Rohrbaugh, who oversees the Office of International Medical Student Education, was a Downs Fellow at YSM and has developed and administered both undergraduate and graduate medical education programs.

Students with questions about international opportunities are encouraged to reach Anne Kellett, Administrative Director of the Office of International Medical Student Education at Anne.Kellett@yale.edu or Administrative Assistant, Nickia Corley at Nickia.Corley@yale.edu.

We would like to thank the faculty and staff who have agreed to be included and those who contributed to this guide. If you find new organizations, classes, faculty, funding sources, clinical opportunities, etc. that you think should be included in the next edition, or if you find any errors, please send them to Anne.Kellett@yale.edu. Thanks and good luck!

August, 2016

Anne, Nickia and Bob
Global Health Foundations is a weekly seminar intended for students in the health professions to be exposed to key issues in global health research and practice. The course features faculty across the health professional schools and other global health experts from around the world. Its collaborative nature provides a rich environment for interdisciplinary dialogue. The goal of the course is for students to attain a good understanding of key issues upon which they may base future research, service, and clinical pursuits in the field of global health.

The objectives of the course are for students to:

- understand current global health challenges taking into consideration their social, political, economic, medical, legal, and human rights dimensions;
- be exposed to the global health governance infrastructure and understand the importance of international collaboration;
- engage in collaborative discussions with health professionals working in medicine, nursing, and public health by engaging in a participatory learning environment with invited speakers, Yale faculty, and students.

Global Health Foundations is a requirement for students in the Global Health Concentration at the Yale School of Public Health (YSPH) and for students in the Certificate in Global Medicine at the Yale School of Medicine (YSM). Students from YSPH must take the course in their first year. In addition to faculty advisors from the School of Medicine, Nursing, Public Health and Physician Associate Program, a program manager from YSPH supports the course along with a student leadership team representing the health professional schools.

Class Participation and Reading

Over the fall semester, Global Health Foundations will focus on key issues in global health. Before each session, 1 - 2 readings and reflection questions will be posted on classes V2. Students are required to study the readings and come prepared with reactions (not written) to the reflection questions. Students are also encouraged to articulate other questions and ideas for class discussion. In addition to assigned readings, students can use Richard Skolnik’s *Essentials of Global Health,* as supplemental, but not required reading. The success of each session is dependent upon active participation and interaction, therefore we will observe a no laptop policy during the class.

Global Health Foundations is an area seminar intended for students in the health professions to be exposed to key issues in global health research and practice. The course features faculty across the health professional schools and other global health experts from around the world. Its collaborative nature provides a rich environment for interdisciplinary dialogue. The goal of the course is for students to attain a good understanding of key issues upon which they may base future research, service, and clinical pursuits in the field of global health.

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Syllabus and schedule for the full AY 2016-17 can be accessed through the following link: http://medicine.yale.edu/ysph/globalcurriculum/seminar.aspx
<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>9-1-2016</td>
<td>Future Vision for Global Health Policy</td>
<td>Brita Roy (YSM)</td>
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Topics in Global Medicine 2016-17 (GH701)

Will not be running AY2016-17

Description
Topics in Global Medicine is a student-led, case-based seminar that provides participants with a broad knowledge base in current globally important health issues. Each session focuses on a specific health concern and aims to integrate issues concerning epidemiology and prevention along with diagnosis and treatment in a case-based format and clinically relevant fashion. The specifics of medical management are not the priority for this course. Importantly, the course provides a forum for interactive discussions of the health issues that pose unique challenges in resource-limited settings.

Most sessions are collaborative – the faculty person is paired with two students and the team works together to research and present the topic. The topic for each session is chosen in advance by the session’s faculty speaker. However, the specific content and themes are chosen by the team as guided by their areas of interest.

Objectives
Upon completion of this course, the student will be able to:
1. Appreciate the spectrum of clinical diseases, both communicable and non-communicable, affecting persons in resource-limited settings.
2. Identify the major principles and challenges of providing medical care in resource-limited settings.
4. Appreciate the importance of public health interventions in dealing with global health issues.
5. Have the opportunity to collaborate with a faculty member on the presentation of a topic of interest.

Participation
Topics in Global Medicine is designed for students in all of the health professions programs, specifically physician associate (PA), nursing (YSN), medicine (YSM), and students in epidemiology and public health (YSHP) who have an interest in the clinical aspects of global health. The course is open to all members of the Yale community. Active participation in the course is expected, whether by way of presenting a topic in collaboration with the faculty member or actively participating in the small group discussions.

Student Presenters
Students interested in presenting one of the sessions will be asked to rank their top three desired sessions. First, a list of presenters will sequentially be assigned a session based on availability of their rank listed options. Participating in the small group discussions.

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Global Mental Health Program

Offered by: Yale Department of Psychiatry

Courses open to all: Global Mental Health Elective

Goals of the Global Mental Health Program

- Global Mental Health Awareness - To promote awareness of issues of global mental health and social disparities.
- Practical Implementation in Clinical Settings - To develop practice tools to address these issues both at home and abroad.
- Underrepresented Access to Care - To promote interest in working with underrepresented populations within and outside the United States that are in need of mental health services.
- Cross Cultural Psychiatry in Practice - To expand the knowledge of cross cultural psychiatry and provide ways for residents to incorporate that knowledge into their clinical practice of psychiatry
- Networking - To develop within and external to the department of psychiatry a network of individuals with common interests in global mental health from which collaborative ideas and projects can spring.

Objectives of the Global Mental Health Program

- Partner with current electives and clinical placements where the program goals can be met
- Develop new global health didactic and clinical electives and selectives
- Identify faculty with global mental health interests who could help mentor residents and fellows on clinical elective and scholarly projects
- Develop international sites for possible bidirectional exchanges of faculty, residents/fellows and medical students
- Consult with clinical and didactic curriculum leaders to develop new opportunities to meet global mental health goals within the existing curriculum
- Provide guidance for residents/fellows interested in global mental health during training
- Identify and develop funding for international or GMH-related clinical electives and scholarly projects

Education Program Components

The Global Mental Health Program (GMHP) exists to supplement and support the existing didactic and clinical curriculum of the residency program. Residents/fellows interested in doing GMH related education can do so during elective times and during selective experiences. The Global Mental Health

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Elective experiences will be open to all residents/fellows in the program and to others in the medical school and university.

The major component of the Global Mental Health Program is the Global Mental Health Elective. The elective meets twice per month and consists of multi-disciplinary presentations on global mental health projects or issues, including journal club presentations by residents/fellows with faculty discussion and resident/fellow scholarly work. The elective is conducted in an informal setting geared for trainees at all levels, providing program participants opportunities to become familiar with colleagues with similar professional interests and to learn about the variety of global mental health activities within the department and elsewhere. It is designed to promote networking, idea sharing, and information about possible future projects.

Contact: To sign up for our list serve, please go to: http://medicine.yale.edu/psychiatry/education/residency/training/gmhp/index.aspx Or, for more information, contact Ayana Jordan, MD at ayana.jordan@yale.edu or Matthew Goldenberg, MD at matthew.goldenberg@yale.edu.
Yale Pediatric Global Health Track

Offered by: Department of Pediatrics

Courses open to all: Yale-New Haven House Staff, Attendings, Fellows, and Yale students

Summary: The purpose of the pediatric global health track is to ensure all residents in the Yale pediatric residency are knowledgeable about global health and to provide additional elective curricular options for those residents and any other interested trainees with a special interest in global health. These additional electives provide a more in-depth understanding of global health as well as focus on issues of health disparities, in international settings, and many other topics. By utilizing the values of social justice and cultural awareness, we will develop leaders in the field of global health whose research and clinical efforts will reduce the effects of disparity in global settings as well as in New Haven.

Program Goals: Our primary goal is to provide residents with individualized residency experiences that will prepare them for careers that improve health for underserved children, either in the USA or abroad.

Education: We support didactic education, international electives, and domestic clinical experiences that foster interest in global health and provide residents with hands-on experience with clinical practice in resource-limited settings.

Service: Global Health begins in New Haven. We encourage residents to work with community organizations in New Haven that provide services for immigrant families, and to work with community pediatricians who have an interest in Global Health.

Research: We help match residents with clinical, basic science, and public health research projects that address key issues in international pediatric health. We encourage residents to participate in national conferences, academic societies, and publication.

Collaboration: We value local and international relationships that are beneficial to both partners.

Course Topics:
- Determinants of Health and Healthcare Delivery
- Overview of Global Child Health
- Global disease burden
- Health care delivery systems

Contact: For course dates, updates and syllabus, e-mail Pedichiefs@yale.edu or visit [http://medstation.yale.edu/pedres/globalhealth/index2.html](http://medstation.yale.edu/pedres/globalhealth/index2.html)

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Global Health Courses at Yale

Yale offers a range of global health courses for undergraduate, graduate and professional students across campus. Email ghi@yale.edu for a global health course not listed at http://ghi.yale.edu/courses. For more information, please see http://students.yale.edu/oci/search.jsp.

Current Global Health courses include offerings from the School of Public Health, School of Medicine, the Law School, School of Forestry, Graduate School and Yale College. Courses range in topics from Global Aspects of Food and Nutrition, to Global HIV/AIDS: Challenges and Response, to Global Health Economics.

GLOBAL HEALTH LEADERSHIP INSTITUTE

The Yale Global Health Leadership Institute (GHLI) creates and supports innovative education and research programs to improve human health and health equity around the world. GHLI brings together researchers, practitioners, and policymakers to define new areas of research and debate critical issues in global health. GHLI develops and evaluates interventions to improve health and health equity in and across complex systems; builds understanding of leadership, management, and governance in diverse contexts; and integrates evidence across sectors and disciplines to improve health and health equity globally. GHLI can help conceptualize projects among faculty, convense and build relationships, and provide other support. GHLI translates research to improve health and health equity around the globe through publication, teaching, and field programs. With a particular emphasis on strengthening health systems, GHLI partners with universities, foundations, and other non-profit agencies to develop and support collaborations in Brazil, Cambodia, Ethiopia, Ghana, Rwanda, South Africa, Tanzania, Uganda, the United Kingdom, and the United States.

Opportunities for Involvement

GHLI Internships

A range of internship opportunities are available for students to support GHLI staff in the administration, development, and coordination of GHLI projects and programs. This includes research and programmatic support for its in-country programs.

GHLI Forum for Change

GHLI convenes senior health practitioners from around the world to facilitate collaborative solutions in strengthening health systems. Multidisciplinary delegations of country representatives, Yale faculty, and others utilize team-based leadership experiences and work together to craft strategies that address global health challenges.

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The Yale Global Health Leadership Institute (GHLI) creates and supports innovative education and research programs to improve human health and health equity around the world. GHLI brings together researchers, practitioners, and policymakers to define new areas of research and debate critical issues in global health. GHLI develops and evaluates interventions to improve health and health equity in and across complex systems; builds understanding of leadership, management, and governance in diverse contexts; and integrates evidence across sectors and disciplines to improve health and health equity globally. GHLI can help conceptualize projects among faculty, convense and build relationships, and provide other support. GHLI translates research to improve health and health equity around the globe through publication, teaching, and field programs. With a particular emphasis on strengthening health systems, GHLI partners with universities, foundations, and other non-profit agencies to develop and support collaborations in Brazil, Cambodia, Ethiopia, Ghana, Rwanda, South Africa, Tanzania, Uganda, the United Kingdom, and the United States.

Opportunities for Involvement

GHLI Internships

A range of internship opportunities are available for students to support GHLI staff in the administration, development, and coordination of GHLI projects and programs. This includes research and programmatic support for its in-country programs.

GHLI Forum for Change

GHLI convenes senior health practitioners from around the world to facilitate collaborative solutions in strengthening health systems. Multidisciplinary delegations of country representatives, Yale faculty, and others utilize team-based leadership experiences and work together to craft strategies that address global health challenges.
priority health issues in their respective countries. GHLI and Yale faculty continue their engagement with each country through activities and workshops tailored to each delegation’s specific needs.

**GHLI Forum for Change Fellows**

GHLI gives students the opportunity to work with country delegations on a range of global health issues during the GHLI Forum for Change. Fellows support country delegations, Yale faculty, and GHLI staff on a variety of activities, ranging from pre-forum research and documentation to development of delegation work plans during the Forum. Following the Forum, GHLI fellows travel to their assigned country for an 8 to 10 week in-country experience to support their delegation with implementation efforts.

**GHLI Contact Information**

GHLI Executive Director: Michael Skonieczny
Email: michael.skonieczny@yale.edu

GHLI Program Manager: Katherine LaMonaca
Email: katherine.lamonaca@yale.edu

www.ghli.yale.edu
CERTIFICATE IN GLOBAL MEDICINE

The Certificate in Global Medicine is awarded upon graduation to students who demonstrate competence in Global Health and provides recognition that a student has completed required didactic coursework, scholarly work, international clinical experience, and language, culture, and leadership activities relevant to Global Health. This Certificate allows students to develop expertise and prepare students for leadership in Global Health by providing the knowledge, skills, and attitude essential for success in this field.

In addition to directly benefitting students at Yale, this program will establish the Yale School of Medicine as a model for excellence in global health education. Requirements for earning the certificate can be completed over four (or five) years, while maintaining flexibility in terms of both the timing and content of these opportunities.

It is expected that students pursuing the Certificate will engage with the community of practitioners and scholars working on Global Health at Yale and around the world. International field experience in Global Health is an integral part of the program.

How do I earn the Certificate?

To earn the Certificate, students must declare their participation by completing the application located at the following link no later than November 1st of their graduation year: [Visit https://medicine.yale.edu/globalhealth/yale/certificate.aspx](https://medicine.yale.edu/globalhealth/yale/certificate.aspx)

If you are graduating in 2017, the deadline is November 1, 2016.

If you are not graduating in 2017, you can still apply at any time this cycle to declare your interest in the program and start building your portfolio.

Students must complete the following requirements, while maintaining a Global Health Portfolio (containing documentation of coursework and reflection papers of experiences) to be turned in by February 1 of the graduating year.

REQUIREMENT 1: Global Health Coursework

Complete the following four coursework requirements. (Visit [https://medicine.yale.edu/education/go/certificate.aspx](https://medicine.yale.edu/education/go/certificate.aspx) for details)

1. Global Health Foundations (recommended, 1st year).
2. Critical Issues in Global Health. (recommended, 1st year) Offered Spring semester only.
3. Additional Global Health Course (must complete one of the following):
   3a. Topics in Global Medicine Elective, 75% attendance
   3b. Global Mental Health Elective 75% attendance.

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3c. An elective course related to global health offered by another graduate school at Yale (recommended, 3rd or 5th year).
3d. U.S. Health Justice Course (1st year) Only offered Fall term for 1st year students.
4. Medical Microbiology (1st year YSM core curriculum: included as section within Attacks & Defenses course).
5. Epidemiology and Public Health (A thread through first 18 months of YSM core curriculum).

REQUIREMENT 2: Scholarly Work
Complete one of the following:

a. Submit your medical thesis based on your original research in a topic of importance in the field of global health.
b. Conduct research (including, but not limited to, basic science, clinical, educational, ethics, and public health/epidemiology research) that focuses on an important topic in global health.

c. If your international work involves an English-speaking population, reflect on your experience with the population's customs and culture.

REQUIREMENT 3: International Clinical Experience
Participate in at least one international or cultural clinical experience during the 3rd, 4th, or 5th year.

REQUIREMENT 4: Language/Culture Appreciation
Demonstrate appreciation for the language/culture of a non-American/non-English-speaking population by completing one of the following:

a. Conducting research or providing healthcare services in a language other than English.
b. Appropriately utilizing a translator in a healthcare interaction in an international setting as part of your International Clinical Elective or Scholarly Work.
c. If your international work involves an English-speaking population, reflect on your experience with the population's customs and culture.

REQUIREMENT 5: Global Health Leadership
Complete one of the following:

a. Serve for 1 academic year as a member of the Global Health Working Group and work to organize one of the following global health education activities: a) lead the organization of the Global Health Seminar; b) lead the organization of the Topics in Global Medicine Elective, the Global Mental Health, Global Mental Attacks & Defenses course.

3c. An elective course related to global health offered by another graduate school at Yale (recommended, 3rd or 5th year).
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REQUIREMENT 6: Additional Global Health Experience

Complete one of the following:

a. Another didactic elective in global health (in addition to the four courses in Requirement #1.)

b. Another scholarly project in global health (including, but not limited to, basic science, clinical, educational, ethics, public health/epidemiology research.) This must be a different project and topic from Requirement #2.

c. Another international or cultural clinical experience in global health (in addition to the elective in Requirement #3.)

d. Another experience in global health, approved by the Office of International Medical Student Education.

For more details on the requirements, please visit: http://medicine.yale.edu/globalhealth/yale/certificate.aspx
or contact a staff member in the Office of International Medical Student Education for questions, global.health@yale.edu (203-737-5019).
There are many opportunities to hear talks on global health related issues, both on the medical campus and elsewhere at the University. Following are a few suggestions; there are many others scheduled regularly and this list is far from comprehensive.

**Lecture Series**

**Yale World Fellows Program**
Each fall, Yale invites 16 early-to-mid-career emerging leaders from around the world to participate in intensive leadership training and networking program focused on global issues. Dr. Michael Cappello, a pediatric Infectious Disease specialist at YSM, has directed the World Fellows Program since 2007. At a variety of forums throughout the semester, the World Fellows serve as expert panelists on a broad range of topics of global importance. On Friday mornings beginning in September, the Fellows are the featured speakers on a current-events discussion series. Experts discuss topics of vital global importance; students are welcome and encouraged to attend. For more information and a detailed calendar of public events, please visit http://worldfellows.yale.edu.

**Yale AIDS Colloquium series (YACS)**
These seminars host a series of distinguished visitors to Yale that are conducting HIV/AIDS research in an international setting. Most discussions are followed by an informal, question-and-answer session with the audience, which ranges from faculty to undergraduate students interested in HIV/AIDS-related issues. For more information http://cira.yale.edu/events.

**MacMillan Center for International and Area Studies**
The Whitney and Betty MacMillan Center for International and Area Studies at Yale is the University’s focal point for encouraging and coordinating teaching and research on international affairs, societies, and cultures around the world. The MacMillan Center sponsors numerous lectures, films, seminars and conferences each week. The Events Calendar can be found on their website: http://yale.edu/macmillan/overview.htm.

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The Program sponsors a regular biweekly Colloquium during the fall and spring terms. Its aim is to enlarge the engagement of faculty and, especially, students with the diverse approaches and cutting-edge work of both junior and senior scholars from the United States and abroad in the history of science and medicine. All colloquia, workshops and lectures are scheduled for 5:00 PM in the Historical Library. Tea is served at 4:30 in the Beboom Room. A schedule is available at: http://medicine.yale.edu/histmed/events.

For further information: www.yale.edu/hshhn/ or (203) 432-1365.

Yale and the World

The "Yale and the World" website (http://world.yale.edu) offers a gateway to the global aspects of Yale University for students at all levels and in all concentrations. It is a great resource when considering opportunities abroad, and/or networking with other Yale programs, faculty, or alumni.

The Global Health Justice Partnership (GHJP)
The Global Health Justice Partnership (GHJP) is a program hosted jointly by Yale Law School (YLS) and Yale School of Public Health (YSPH) that tackles contemporary problems at the interface of global health, human rights, and social justice. The GHJP is pioneering an innovative, interdisciplinary field of scholarship, teaching, and practice, bringing together diverse thought leaders to collaborate on research, policy projects, and academic exchanges. GHJP also regularly organizes lectures, conferences, and other events on critical health justice topics. Visit www.yaleghjp.org for more information.

The Jackson Institute

The Jackson Institute for Global Affairs is a principal driver of Yale's efforts to internationalize its teaching curriculum, to attract the most talented students and scholars to Yale from around the world, and to deepen the University's engagement abroad. Their mission is to institutionalize the teaching of global scholars to Yale from around the world, and to deepen the University's internationalize its teaching curriculum, to attract the most talented students and scholars from the United States and abroad in the history of science and medicine. All colloquia, workshops and lectures are scheduled for 5:00 PM in the Historical Library. Tea is served at 4:30 in the Beboom Room. A schedule is available at: http://medicine.yale.edu/histmed/events.

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2016-2017 Conferences at Yale

Please refer to Yale University Bulletin to learn about ongoing conferences: http://events.yale.edu/sipa

Unite For Sight Ninth Annual International Health Conference
Global Health & Innovation 2017 in New Haven. April 22-23, 2017
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Below we have listed some of the faculty and funding opportunities for student’s doing research with a global health focus at Yale School of Medicine.

Faculty Mentors at Yale

This list is not comprehensive, but includes faculty who have mentored students in the past or who are interested in serving as mentors in the future. You should be able to contact them relatively easily; email is typically the best way to begin.

In addition, there is a group of designated Global Health Faculty Advisors across several of the departments who are an excellent resource for identifying possible faculty mentors within their departments. They are as follows.

Emergency Medicine – Dr. Hani Mowafi
Diagnostic Radiology – Dr. Mahan Mathur
Internal Medicine – Dr. Asghar Rastegar
Neurology – Dr. David Greer
Ob/Gyn – Dr. Lubna Pal
Pediatrics – Dr. Elijah Paintsil
Psychiatry – Drs. Ayana Jordan and Matthew Goldenberg
Surgery – Dr. Doruk Ozgediz

Nadia Abdala, DVM, Ph.D.
Research Scientist
Dr. Abdala’s background lies in the field of applied clinical virology, and her past research has focused on questions regarding HIV transmission among injection drug users. She is currently investigating HIV and STD related risk behaviors among populations at risk for HIV and is testing an intervention to reduce the sexual transmission of HIV among STD clinic patients in Russia.

Serap Aksoy, Ph.D.
Professor of EPH
Dr. Aksoy’s interests are in the molecular basis of biological complexity that determines host-microbe interactions with the goal of interfering with the transmission of pathogens to humans. Her studies focus on tsetse flies, which are the vectors of the devastating parasites African trypanosomes. They investigate the molecular aspects of tsetse immunity during parasite transmission, with the eventual goal of manipulating these responses to block disease transmission. The laboratory also has field studies in Africa that aim to understand the dynamics of sleeping sickness transmission in Uganda.

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Dr. Aksoy’s interests are in the molecular basis of biological complexity that determines host-microbe interactions with the goal of interfering with the transmission of pathogens to humans. Her studies focus on tsetse flies, which are the vectors of the devastating parasites African trypanosomes. They investigate the molecular aspects of tsetse immunity during parasite transmission, with the eventual goal of manipulating these responses to block disease transmission. The laboratory also has field studies in Africa that aim to understand the dynamics of sleeping sickness transmission in Uganda.

Below we have listed some of the faculty and funding opportunities for student’s doing research with a global health focus at Yale School of Medicine.

Faculty Mentors at Yale

This list is not comprehensive, but includes faculty who have mentored students in the past or who are interested in serving as mentors in the future. You should be able to contact them relatively easily; email is typically the best way to begin.

In addition, there is a group of designated Global Health Faculty Advisors across several of the departments who are an excellent resource for identifying possible faculty mentors within their departments. They are as follows.

Emergency Medicine – Dr. Hani Mowafi
Diagnostic Radiology – Dr. Mahan Mathur
Internal Medicine – Dr. Asghar Rastegar
Neurology – Dr. David Greer
Ob/Gyn – Dr. Lubna Pal
Pediatrics – Dr. Elijah Paintsil
Psychiatry – Drs. Ayana Jordan and Matthew Goldenberg
Surgery – Dr. Doruk Ozgediz

Nadia Abdala, DVM, Ph.D.
Research Scientist
Dr. Abdala’s background lies in the field of applied clinical virology, and her past research has focused on questions regarding HIV transmission among injection drug users. She is currently investigating HIV and STD related risk behaviors among populations at risk for HIV and is testing an intervention to reduce the sexual transmission of HIV among STD clinic patients in Russia.

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Dr. Ali's interests lie in chronic disease prevention and chronic pain syndromes. He is currently investigating the role of mindfulness interventions in fibromyalgia. He has been involved in a number of clinical trials of complementary therapies, including massage, nutritional supplements, and dietary interventions.

Frederick L. Altice, MD, MA
Professor of Medicine, Section of Infectious Diseases, AIDS Program
Director of Clinical and Community Research
Dr. Altice is involved in active research projects in several countries, including Malaysia, Ukraine, Indonesia, Russia, Peru and the U.S. Dr. Altice is primarily interested in health outcomes and interventions associated with the prevention and treatment of infectious disease (e.g., HIV/AIDS, Hepatitis C, Tuberculosis) complications among drug users. His work involves clinical trials, prevention, health policy, epidemiology and public health. He also has active research projects involving health care, community and criminal justice settings. Clinical trials include behavioral interventions, the use of medication-assisted therapies (e.g., methadone, buprenorphine, naltrexone) and structural interventions. Individuals interested in summer projects should begin early by planning projects in the early to late fall and will require receipt of funding before the project can commence.

Linda D. Arnold, M.D.
Associate Professor of Pediatrics, Section of Emergency Medicine; Director of pediatric residents' Global Health Track
Dr. Arnold is the Yale Pediatric lead for Rwanda’s Human Resources for Health: Capacity Building through Medical Education Program. As Chair of the American Academy of Pediatrics (AAP) Section on International Child Health, Dr. Arnold serves on the AAP Global Immunization Advocacy Project Advisory Committee and as a representative for the Survive and Thrive Global Development Alliance, a global initiative to improve maternal and child health in low resource settings. Dr. Arnold’s research interests center on global child health; she is frequently invited to speak domestically and internationally about global child health priorities, effective bi-directional partnerships, and the importance of funding proven interventions like routine childhood immunizations and training of skilled birth attendants.

Elizabeth Bradley, Ph.D.
Professor of Public Health (Health Policy)
Dr. Bradley is the director of the Yale global health initiative and the Yale Global Health Leadership Institute and has mentored Yale students in international research. Her primary research interests include health services with an emphasis on management and implementation research, quality improvement projects involving health care, community and criminal justice settings. Clinical trials include behavioral interventions, the use of medication-assisted therapies (e.g., methadone, buprenorphine, naltrexone) and structural interventions. Individuals interested in summer projects should begin early by planning projects in the early to late fall and will require receipt of funding before the project can commence.

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R. Douglas Bruce, MD, MA, MSc
Assistant professor of Medicine and Epidemiology
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Dr. Bruce conducts operations research globally at the intersection of infectious diseases (e.g., HIV/tuberculosis) and addiction. Dr. Bruce helped develop the first integrated treatment clinic for addiction and HIV/TB in Africa where he continues to research optimal treatment delivery systems for complicated patient populations.

Richard Bucala, MD, Ph.D.
Professor of Internal Medicine, Pathology, and Epidemiology & Public Health
Dr. Bucala’s research is on the mechanisms by which host immunity converts from a protective response to one producing disease and tissue pathology, with active investigative programs in autoimmunity and infectious diseases, including malaria, tuberculosis, and leishmaniasis.

Michael Cappello, MD
Professor of Pediatrics, Microbial pathogenesis and Public Health; Director, Yale World Fellows Program; Director, Yale Program in Intl Child Health
Dr. Cappello’s research group conducts laboratory and field based studies of parasitic diseases, including hookworm and malaria. Laboratory studies focus on parasite vaccine and drug development, while field based studies in West Africa focus on epidemiology and molecular mechanisms of anthelmintic treatment failure. In addition, Dr. Cappello serves as co-Director of the Yale international Adoption clinic, where he provides medical evaluations of children adopted from abroad.

Jamie Childs, ScD
Senior Research Scientist, Microbial Diseases and Public Health
Jamie Childs’ area of research includes the ecological dynamics of directly-transmitted zoonotic viruses, including the hantaviruses, arenaviruses and rabies, and vector-borne bacteria, including rickettsia, bartonella and borrelia. His recent interests and research, conducted in collaboration with Dr. Albert Ko, focus on the ecoepidemiology of intra- and inter-specific transmission of leishmaniasis in an urban slum setting in Salvador, Brazil.

Mayur Desai, PhD, MPH
Associate Professor of Epidemiology (Chronic Diseases)
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Robert Dubrow, MD, PhD
Professor of Epidemiology (Chronic Diseases)

Dr. Dubrow has been involved in cancer research for most of his career, first in cancer biology and then, for the major portion of his career, in cancer epidemiology, which has included the following work: 1) studies aimed at the identification of fecal and serum markers for the early detection of colorectal cancer and/or the identification of persons at high risk for colorectal cancer; 2) case-control studies of cancers of the stomach, esophagus, breast, endometrium, and larynx, as well as malignant melanoma, childhood osteosarcoma, and nasopharyngeal carcinoma; 3) a study of the effects of race and social factors on the stage at diagnosis of breast, prostate, colorectal, and endometrial cancers; 4) time trend and age-period-cohort analyses of malignant melanoma and colorectal cancer; and more recently, 5) HIV-related malignancies; and 6) descriptive and analytic epidemiology and patterns of care and outcomes for glia. Since 2009, the latter two areas have been the main focus of his research.

Menachem Elimelech, Ph.D.

Robert Gozuela Professor of Chemical & Environmental Engineering

Dr. Elimelech’s research interests include environmental applications and implications of nanomaterials, membranes and membrane separations for desalination and water quality control, engineered osmosis for sustainable production of water and power, and water and sanitation in developing countries.

Rafael Perez-Escamilla, Ph.D.
Professor of Epidemiology; Director, Office of Community Health

Dr. Perez-Escamilla’s global public health nutrition research program seeks to understand how best to: a) promote breastfeeding and other infant feeding practices; b) measure household food insecurity; c) mitigate the negative impact of household food insecurity on maternal-child physical and mental health outcomes; d) mitigate the negative impact of maternal HIV on child growth and development; e) design community nutrition education programs. His domestic health disparities research program focuses on design and evaluation of health disparities research program focuses on design and evaluation of community health worker models seeking to improve behavioral (nutrition, physical activity, self-glucose monitoring, medication adherence) mental health (stress reduction) and metabolic outcomes among Latinos with type 2 diabetes.

Kristopher Fennie, MSc, MPP, Ph.D.
Research Scientist and lecturer, Yale School of Nursing

Dr. Fennie’s research interests include infectious disease epidemiology in disenfranchised populations, the relationship between patient and provider in persons with mental disorders, veterans, immigrants, and the elderly; and workforce issues in public health and medicine.

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Durland Fish, PhD
Professor of Epidemiology (Microbial Diseases) and of Forestry and Environmental Studies
Dr. Fish is the Director of the Yale Institute of Biospheric Studies Center for EcoEpidemiology. His research focus is on epidemiology and prevention of vector-borne disease.

Brian Forsyth, MBChB, FRCPC
Professor of Pediatrics and Associate Professor of Child Study Center
Dr. Brian Forsyth is Deputy Director for International Research for Yale’s Center for Interdisciplinary Research on AIDS (CIRA). His primary research interests lie in the areas of prevention of mother to child HIV transmission, the psychological effects of parental HIV on children and issues relating to child development. His research is conducted internationally, primarily in South Africa.

Gerald Friedland, MD
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Dr. Friedland’s research interests have focused on HIV disease in underserved populations in the United States, and most recently South Africa. These include the transmission of HIV among HIV seropositives, natural history and clinical manifestations of HIV infection, clinical trials of new antiretroviral and opportunistic infection therapies and adherence to these therapies. Dr. Friedland’s recent work has included study of multi and extensively drug resistant tuberculosis in Tugela Ferry, KZN, and South Africa.

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Professor Galvani's research focuses on integrating epidemiology and the evolutionary ecology of economics in order to generate predictions that could not be made by these disciplines alone. This interdisciplinary approach has widespread potential for answering evolutionary questions, explaining empirical observations and informing public health policy. Professor Galvani has applied this approach to the study of HIV, influenza, TB and HPV, among other diseases.

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Matthew Goldenberg, M.D., M.Sc.
Assistant Professor of Psychiatry
Dr. Goldenberg is section chief of psychiatric emergency services at YNHH, the medical director of the YNHH Psychiatry Observation Unit and serves as an attending psychiatrist in the YNHH emergency department's Crisis Intervention Unit. He is active in medical student education at Yale, serving as a member of the steering committee for the integrated Primary Care and Psychiatry Clerkship and a regular lecturer, seminar leader and tutor to medical and physician associate students. Dr. Goldenberg's professional interests include medical student and resident education, emergency psychiatry, physician political behavior/advocacy, health promotion, as well as international and refugee mental health. He received a certificate in Global Mental Health from the Harvard Program in Refugee Trauma in 2009. He is a member of the American Psychiatric Association and the Association of Directors of Medical Student Education in Psychiatry (ADMEP).

Elena Grigorenko, Ph.D.
Emily Fraser Beede Professor of Developmental Disabilities, Child Studies, Psychology, and Epidemiology and Public Health
Dr. Grigorenko has worked with children and their families in the U.S. as well as in Africa (Kenya, Tanzania and Zanzibar, the Gambia, and Zambia), India, Saudi Arabia, and Russia. Her current research projects include: Genes involved in learning disabilities and cognitive processing, with special emphasis on studying minority samples in the US, and interactions between genetic and environmental risk factors for conduct problems and the role of these factors in response to interventions in juvenile detainees.

Jhumka Gupta, ScD, MPH
Assistant Professor of Epidemiology (Chronic Diseases)
Dr. Gupta's research interests lie in the arenas of gender-based violence, immigration, sex trafficking, and sexual risk. Jhumka also has extensive international experience where she conducted research on HIV and sex trafficking in South Asia. She developed a gender and health curriculum for adolescents in Mumbai, India, and managed a women's health program in rural Haiti.

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Assistant Professor of Epidemiology (Chronic Diseases)
Dr. Gupta's research interests lie in the arenas of gender-based violence, immigration, sex trafficking, and sexual risk. Jhumka also has extensive international experience where she conducted research on HIV and sex trafficking in South Asia. She developed a gender and health curriculum for adolescents in Mumbai, India, and managed a women's health program in rural Haiti.

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Robert Heimer, Ph.D., MSc
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Currently, Dr. Heimer’s major research efforts include both field based prevention work and laboratory investigations of disease transmission risks. The field-based work concentrates on the scientific evaluation of prevention programs serving drug users. These include syringe exchange, hepatitis vaccination, and overdose prevention. The laboratory work concentrates on the virological assessment of the risk of syringing sharing and other drug injection behaviors that may transmit HIV-1 and Hepatitis C virus.

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Clinical Instructor, School of Public Health
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Albert Ko, MD  
Professor of Epidemiology and Medicine; Department Chair  
His research focuses on the health problems which have emerged as a consequence of rapid urbanization and social inequity. Dr. Ko coordinates an NIH-supported research and training program on urban slum health in Brazil, where his group is conducting long-term prospective studies on urban health problems which include dengue, meningitis and respiratory infections, as well as non-communicable diseases such as hypertension and violence. His work is particularly interested in understanding the natural history of leptospirosis, which is as a model for an infectious disease which has emerged in slum settlements due to the interaction of climate, urban ecology and social marginalization. His research combines field epidemiology and translational research approaches to identify prevention and control strategies which can be implemented in slum communities. Furthermore, Dr. Ko is the Principal Investigator at Yale for the Fogarty Global Health Equity Scholars Program which provides research training opportunities for US and LMIC post and pre-doctoral fellows at collaborating international sites.

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Harold H. Hines Jr. Professor of Medicine  
Dr. Krumholz is the Harold H. Hines Jr. Professor of Medicine at the Yale University School of Medicine and the Arthur J. Guyot Professor of Medicine at the Yale School of Public Health. He is also the Director of the Robert Wood Johnson Clinical Scholars Program and the Director of the Yale-New Haven Hospital Center for Outcomes Research and Evaluation. His research focuses on determining optimal clinical strategies and identifying opportunities for improvement in the care of patients with or at risk for cardiovascular disease.

Mark Lazenby, APRN Ph.D.  
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the time of diagnosis with life-limiting cancer. In Botswana (southern Africa), he is working with a nonprofit hospice to use the principles of palliative care to increase adherence to treatment regimens, decrease symptom distress, and decrease rates of hospitalization for patients with chronic illnesses, including HIV/AIDS and cancer.

James Leckman, MD
Nelson Harris Professor in the Child Study Center; Professor of Psychology and Pediatrics
Dr. Leckman’s primary research interests are in the evaluation and treatment of Tourette’s Syndrome and early onset obsessive-compulsive disorder. He has also done work in numerous other areas of child and adolescent psychiatry as the current Director of Research for The Child Study Center.

Robert Malison, MD
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Dr. Malison’s research group is interested in the neurobiology and genetics of substance dependence disorders, with a particular focus on psychostimulant (cocaine and methamphetamine) dependence. Methodologies employed vary, and include human laboratory methods designed to evaluate the regulation of cocaine self-administration, reinforcement, and cocaine behavioral effects. Also, in collaboration with Chulalongkorn University in Bangkok, his group is undertaking a feasibility study of the genetics of opioid and methamphetamine dependence in a northern Thai (Hmong) hill tribe population.

Hani Mowafi, MD, MPH
Assistant Professor of Emergency Medicine; Section Chief of Global Health and International Emergency Medicine. Dr. Mowafi’s areas of interest include provision of health services in humanitarian emergencies, the burden of injuries in low- and middle-income countries, and the characterization of global emergency care. He has participated in and led programs in thirteen countries primarily in the Middle East and Africa and has partnered with NGOs, UN agencies and universities on programs and academic research.

Linda Niccolai, Ph.D.
Associate Professor of Epidemiology; Director, HPV-IMPACT Project Her main area of interest is in behavioral aspects of HIV/STI prevention. Specifically, she is interested in studying both individual- and partnership-level determinants of sexual risk behaviors, and population-based patterns of transmission dynamics. Her research includes a focus on the underserved populations of adolescents and women, and includes both domestic and international sites. Currently, Professor Niccolai is involved in three main areas of research: the behavioral and molecular epidemiology of repeat Chlamydia infections among young women; HIV transmission dynamics among injection drug users; and the behavioral and molecular epidemiology of repeat Chlamydia infections among young women; HIV transmission dynamics among injection drug users.

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Connecticut Emerging infections program to monitor impact of the human papillomavirus vaccine.

Diane McMahon-Pratt, Ph.D.
Professor of EPH
Professor McMahon-Pratt’s laboratory is interested in understanding the immune effector mechanisms in the mammalian host that are involved in the control of infection and/or pathogenesis of leishmania, with the aim to developing a vaccine. Currently, Professor McMahon-Pratt is director of an NIH-sponsored International Collaborating Infectious Disease Research Center Program and Fogarty Training Programs with Centro Internacional de Entrenamiento e Investigaciones Medicas in Colombia.

Doruk Ozgediz, MD MSc
Assistant Professor of Surgery
Section of Pediatric Surgery
Dr. Ozgediz’s research interests include challenges and solutions for surgery in resource poor areas, capacity-building for the surgical workforce in resource-limited settings, health disparities in surgical care, and burden of surgical disease. He has been working through surgical collaborations in Uganda since 2003 and has a specific clinical interest in surgical care for children.

Elijah Paintsil, MBChB, MD
Assistant Professor of Pediatrics & Pharmacology
Research Interest: HIV; translational research: cellular pharmacology of HIV-RT Inhibitors in relation to clinical toxicities; fitness and evolution of HIV drug resistant mutants; molecular epidemiology and dynamics of HIV/HCV transmission. Clinical Interest: Pediatric infectious diseases; pediatric HIV/AIDS with special interest in management of multi-drug resistant HIV infection; prevention of mother to child transmission of HIV and monitoring of antiretroviral therapy in a resource limited setting.

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Professor of Public Health (Health Policy) and of Management
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Sunil Parikh, MD, MPH
Assistant Professor of Epidemiology (Microbial Diseases) and of Medicine (Infectious Diseases)
Professor Parikh’s research interests focus on translational studies of malaria in sub-Saharan Africa. Dr. Parikh focuses upon several aspects of malaria: early host immune responses to infection, human genetics, and treatment. Current projects include: (1) understanding host factors affecting response to artemisinin-based antimalarial therapies using a combination of individual and population-based pharmacologic approaches to inform treatment guidelines; 2) characterizing the impact of host genetic and transcriptional variability in early immune responses to malaria; and 3) understanding the impact of the HIV epidemic on the treatment of malaria in co-endemic regions. Dr. Parikh has ongoing projects in several African countries, including Uganda, Burkina Faso, and Nigeria.

Linda Pellico, PhD, MSN, RN
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Tracy Rabin, MD, MS
Assistant Professor of Medicine (General Medicine); Assistant Director, Office of Global Health (Department of Internal Medicine)
Dr. Rabin is an Internist and Pediatrician. She attends and teaches on the medical wards at the St. Raphael’s Campus (SRC) of Yale-New Haven Hospital; directs care and precepts residents in the SRC Adult Primary Care Diabetes Clinic; co-directs the YPC Community Engagement Curriculum; directs the YPC Home Visit Elective; and co-directs the Makerere University-Yale University (MUYU) medical education capacity building collaboration which is based at the Makerere University College of Health Sciences/Mulago National Referral & Teaching Hospital in Kampala, Uganda. Her areas of academic interest include global health education and clinical ethics, outpatient diabetes management, and health care transitions.

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Professor Parikh’s research interests focus on translational studies of malaria in sub-Saharan Africa. Dr. Parikh focuses upon several aspects of malaria: early host immune responses to infection, human genetics, and treatment. Current projects include: (1) understanding host factors affecting response to artemisinin-based antimalarial therapies using a combination of individual and population-based pharmacologic approaches to inform treatment guidelines; 2) characterizing the impact of host genetic and transcriptional variability in early immune responses to malaria; and 3) understanding the impact of the HIV epidemic on the treatment of malaria in co-endemic regions. Dr. Parikh has ongoing projects in several African countries, including Uganda, Burkina Faso, and Nigeria.

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Dr. Rabin is an Internist and Pediatrician. She attends and teaches on the medical wards at the St. Raphael’s Campus (SRC) of Yale-New Haven Hospital; directs care and precepts residents in the SRC Adult Primary Care Diabetes Clinic; co-directs the YPC Community Engagement Curriculum; directs the YPC Home Visit Elective; and co-directs the Makerere University-Yale University (MUYU) medical education capacity building collaboration which is based at the Makerere University College of Health Sciences/Mulago National Referral & Teaching Hospital in Kampala, Uganda. Her areas of academic interest include global health education and clinical ethics, outpatient diabetes management, and health care transitions.

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Dr. Rohrbaugh is the Director of the Office of International Medical Student Education. He is interested in comparing undergraduate and graduate medical education for mental health disorders in the developing world, with special emphasis on China.

Robert Rosenheck, MD
Professor of Psychiatry and of Public Health (Health Policy)
Dr. Rosenbeck is the Director of the Division of Mental Health Services and Outcomes Research in the Department of Psychiatry. His research interests include Homelessness; Post Traumatic Stress Disorder; Cost-Effectiveness Analysis. He is an internationally known mental health service researcher who is leader in cost-effectiveness studies of behavioral health interventions and in monitoring quality of care and other aspects of the performance of large health care system.

Patricia Ryan-Krause, MS, MSN, APRN
Associate Professor, Pediatric Nurse Practitioner Specialty and Interim Director of Center for International Nursing Scholarship and Education. Her scholarly and clinical interests include early childhood development, learning issues and capacity-building in low resource global settings. She has many years of experience in Central America working with health, mental health and developmental issues in urban and rural settings.

Richard Schottenfeld, MD
Professor of Medicine and Director, Office of Global Health in Internal Medicine
Dr. Rastegar is a clinical nephrologist with strong interest in intensive care nephrology including disorders of acid base and electrolytes. His academic interest revolves around education and training of young physicians both in the US and abroad. In his role as the Director of the Office of Global Health and co-director of Yale-Stanford J&J Global Health Scholar Program, he has focused on the development of bilateral relationship with institutions in resource poor regions with the goal of improving human capacity in the health care sector.

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Richard Schottenfeld, MD
Professor of Psychiatry
Dr. Schottenfeld's research is aimed at improving the accessibility, availability and effectiveness of treatments for substance use disorders in the U.S. and internationally, through clinical trials and clinical epidemiologic studies. The general themes of his research and approaches utilized are evident in the major, interrelated programs of research that he has developed aimed at: 1. improving the efficacy of pharmacological and behavioral treatments for opioid (heroin, morphine, or prescription opioids) or stimulant (cocaine or amphetamine-type stimulants) use disorders, including studies of opioid agonist maintenance treatment with methadone or buprenorphine and adjunctive behavioral or

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pharmacological treatments for specific patient sub-populations (e.g. those with co-occurring stimulant dependence or chronic pain), 2. improving the accessibility and effectiveness of opioid dependence treatment by integrating it in office-based and primary care settings, and 3. evaluating and disseminating evidence-based drug abuse treatment and promoting drug abuse clinical research in international settings, including in Malaysia, China, and Russia.

Jeremy Schwartz, MD
Assistant Professor of Medicine (General Medicine); Firm Chief, Yale Primary Care Residency Program.

Dr. Schwartz is board-certified in both Internal Medicine and Pediatrics. He places an emphasis on patient quality and safety and the patient experience and engages in research in those realms. Globally, he focuses on non-communicable diseases (NCDs). He is an active member of the global NCD advocacy movement. He serves on the Advisory Council of the Young Professionals Chronic Disease Network and is a member of the East African NCD Alliance post-2015 Implementation Initiative. His research focuses on health system strengthening related to NCDs. He is the US-based co-Director of the Uganda Initiative for the Integrated Management of Non-Communicable Diseases (UNICD). He is also the Director of Chronic Disease Integration and Delivery Science at the Yale Equity Research and Innovation Center (ERIC).

Within ERIC, he is Medical Director of the Eastern Caribbean Health Outcomes Research Network (ECHORN). Dr. Schwartz has been directing “Topics in Global Medicine” (formerly the Tropical Medicine Course) since 2010. This interdisciplinary elective course for health professions students at Yale presents a wide range of globally relevant health issues in an interactive format.

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Andre N. Sofair, MD, MPH
Associate Professor of Medicine (General Medicine) and of Epidemiology (Microbial Diseases)

Dr. Sofair’s research interests lie primarily in the area of emerging infectious diseases. He has worked to develop surveillance systems for the detection of emerging pathogens, developed hospital and practice-based cohorts to define infectious disease burden and epidemiology, and performed a number of validation studies to limit biases in estimation of incidence rates. His current work focuses largely on the epidemiology of chronic liver disease with an emphasis on liver disease due to hepatitis C infection.

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Marietta Vázquez, MD
Associate Professor of Pediatrics, Infectious Diseases

Dr. Vázquez is an infectious diseases specialist who conducts clinical epidemiology research. Her primary research interests include evaluating the effectiveness of pediatric vaccines—varicella vaccine, Rotavirus vaccines, Lyme vaccine, Pneumococcal conjugate vaccine, and Influenza vaccine, among others. Dr. Vázquez’s studies focus on the assessment of the effectiveness of vaccines. She has established the Pediatric Yale-Hospital Infantli Robert Reid Cabrál (HIRRC) collaboration. This new initiative is a multifaceted collaborative program between Yale Pediatrics and the only public children's hospital in Santo Domingo—HIRRC. The collaborative program encompasses research projects (funded in part by the Centers of Disease Control Foundation), a bidirectional resident exchange program, and faculty exchange. Dr. Vázquez also serves as co-director of the Yale Pediatric Global Health track.

John Harley Warner, Ph.D.
Avalon Professor and Chair, History of Medicine, Professor of History

Dr. Warner’s research interests include the cultural and social history of medicine in 19th and 20th century America, comparative history, (particularly British, French, and North American medicine), and medical cultures since the late 18th century.

Maria Ana Diuk-Wasser, Ph.D.
Assistant Professor of Epidemiology (Microbial Diseases)

Dr. Diuk-Wasser’s primary research interests include environmental and ecological drivers of vector-borne and zoonotic diseases as well as spatiotemporal predictions of risk.

Daniel Weinberger, PhD
Assistant Professor of Epidemiology (Microbial Diseases)

Dr. Weinberger’s research is at the intersection of microbiology and epidemiology. Much of his work focuses on the pneumococcus, a major bacterial pathogen that causes a large burden of disease worldwide, particularly among young children and the elderly. Major research questions are related to bacterial evolution and strain dominance, bacterial-viral co-infections, and seasonal determinants of bacterial disease incidence. He also does work focused on improving the interpretation of disease surveillance data and understanding geographic variations in vaccine impact. These projects have direct relevance for interpreting post-vaccination disease data and for understanding the potential impacts of bacterial evolution on long-term vaccine effectiveness.

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Dr. Wickersham’s research is focused on the development and evaluation of biomedical and behavioral interventions to address HIV prevention and substance abuse treatment among sex workers. His work targets both cisgender female and transgender women in the sex work industry in Southeast Asia. Broadly, his work seeks to understand the effect of gender differences in substance use etiology, drug and sex risk taking behavior, and to develop interventions sensitive to gender-specific needs to improve HIV and substance dependence outcomes.

Julie Womack, CNM, APRN, PhD
Assistant Professor of Nursing
Dr. Womack’s research interests include HIV/AIDS in an aging population with a particular interest in HIV-infected women. Her current focus is fragility fractures and falls in an aging population. She has also explored metabolic complications in HIV infected women who use hormonal contraception.

Barry J. Wu, MD, FACP
Clinical Professor of Medicine at Yale University School of Medicine and Associate Program Director of Internal Medicine at the Yale New Haven Medical Center Saint Raphael Campus
Dr. Wu is responsible for teaching residents, medical students, physician assistants and caring for the uninsured and under insured in New Haven. He has participated on medical missions trips to the Dominican Republic, Ecuador and Panama and taught at the International Medical Conference for medical missionaries in Thailand. He has been on the board of the Yale China Association since 2007 and has been involved in developing a model of undergraduate and graduate medical education in China.

Tongzhang Zheng, DSc
Susan Dwight Bliss Professor of Epidemiology
Dr. Zheng’s research interests are in the area of environmental pollution and human health, particularly in cancer epidemiology and etiology related to environmental hormone disruptors, genetic susceptibility and gene-environmental interaction. His research emphasizes the role of organochlorine compounds (such as PCBs, DDE and other pesticides) in the etiology of several major cancers in the United States including breast, Non-Hodgkin lymphoma, Hodgkin’s disease, multiple myeloma and testicular cancer. International activity has been primarily in China.

In addition to those faculty listed here, the Directory of Faculty Research Interests – maintained by the Office of Student Research is a great resource to identify potential faculty mentors and thesis advisors. It is available on-line at,  

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The Arons-Millard Student Research Fund for Surgery was established by M. Felix Freshwater, M.D.'72 in 2007 in order to promote the development of future academic surgeons. Dr. Freshwater established this fund in honor of his first and final surgical teachers: Marvin S. Arons, M.D., D.M.D. (B.S. Yale 1952) and D. Ralph Millard Jr., M.D. (B.S. Yale 1941) Light-Millard Professor of Surgery, Emeritus at the University of Miami.

This research fund is administered by the Office of Student Research, and students may pursue projects abroad within the surgical disciplines. Such research projects must fall within the following areas:

1. Clinical research with the surgical disciplines
2. Projects related to the History of Surgery
3. Projects on surgical ethics
4. Projects on evidence-based care
5. Projects on surgical economics

Research projects meeting these criteria can be conducted in domestic or international settings.

For more information, visit the OSR's website:
http://medicine.yale.edu/education/osr/student/funding/index.aspx

The Office of Student Research and the Office of Student Research, the Office of Student Research funds medical student research in low and middle income countries. A full time Yale faculty advisor is required. Students are strongly encouraged to also apply to the Downs Fellowship Program which has an earlier submission date. If students are not awarded the Downs Fellowship but apply for funding to the Office of Student Research, the application should address and correct recognized limitations in the protocol submitted for the Downs Fellowship. Current stipends are $2,250 per month.

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Downs Fellowship Program
The Downs Fellowship Program utilizes an endowment from Dr. Wilbur Downs and his family to provide opportunities for students from the Schools of Epidemiology and Public Health, Medicine, Physician Associate, and Nursing to complete research projects in the developing world. The Downs Fellowship Committee is comprised of members from the four health professions schools, meets monthly to review issues of interest and serves as the committee to review applications and award fellowship applications.

Dr. Leonard Munstermann chairs the Downs Fellowship Committee. Students interested in the Down's Fellowship can e-mail him at Leonard.Munstermann@yale.edu.

Downs Fellowship
Listed below are the past three years Downs Fellowship recipients from Yale School of Public Health and the Schools of Medicine and Nursing and the subject of their research:

2016 Downs Funding Recipients

- Stephanie Baluka, PA: Barriers and Facilitators of Glycemic Control Among Disadvantaged Populations with Type 2 Diabetes in Mexico City. (faculty advisor: Rosana Gonzalez-Colosso)
- Paige Baum, YSPH: Extension: Longitudinal Analysis of Seasonal Rate Abundance and Activity in Association with Leptospirosis Incidence in Brazilian Urban Slums. Brazil (faculty advisor: Albert Ko, MD)
- Divya Chandra, YSPH: Isoniazid Preventive Therapy Uptake and Adherence in Two South African Clinics with Different Models of Integrated HIV/HT Care. (faculty advisor: Sheela Shenoi, MD)
- Sara Chronister, YSPH: Determining tuberculosis incidence through a retrospective cohort study of existing prevalence data and the South Africa national TB register. (faculty advisor: Ted Cohen, MD)
- Samara Fox, YSM: Assessing the impact of a clinical practice guideline for the management of traumatic brain injury patients on healthcare provider knowledge, attitudes, and practices at a referral hospital in Moshi, Tanzania. (faculty advisor: Karen Jubanyik, MD)
- Amandine Godier-Furnemont, YSM: Assessing Backlog in Surgical Care for Pediatric Anomalies in Uganda. (faculty advisor: Doruk Ozgediz, MD)
- Emily Hott, YSM: Congenital Zika Syndrome: What is it and who gets it? Brazil. (faculty advisor: Albert Ko, MD)
- Katherine Rich, YC (BA/BS-MPH): Assessing the effects of psychosocial determinants of health on HIV treatment adherence and outcomes among a population of men who have sex with men in Lima, Peru. (faculty advisor: Rick Allic, MD)
- Jocelyn Rinne, YSM: Understanding the challenges to midwifery practice and education in a high volume setting in Kampala, Uganda. (faculty advisor: Allison Shorten, PhD, RN)

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- Emily Hott, YSM: Congenital Zika Syndrome: What is it and who gets it? Brazil. (faculty advisor: Albert Ko, MD)
- Katherine Rich, YC (BA/BS-MPH): Assessing the effects of psychosocial determinants of health on HIV treatment adherence and outcomes among a population of men who have sex with men in Lima, Peru. (faculty advisor: Rick Allic, MD)
- Jocelyn Rinne, YSM: Understanding the challenges to midwifery practice and education in a high volume setting in Kampala, Uganda. (faculty advisor: Allison Shorten, PhD, RN)
Colette Matysiak, YSPH: Prevalence of drug resistant genes in Plasmodium isolated from humans and mosquitoes, Zimbabwe, IECMR, (faculty advisor: Richard Bucala, MD, PhD)

Renee Mehra, YSPH: Investigating prenatal care utilization, content, and quality in American Samoa: a qualitative study of the perspectives of women and prenatal care providers. (faculty advisor: Nicola Hawley, PhD)

Courtney Pedersen, YSPH: Correlates of HIV Infection Among Soon To Be Released Incarcerated Women in Malaysia. (faculty advisor: Jeffrey Wickersham, PhD)

Cara Safon, YSPH: Delivery Mode and Breastfeeding Outcomes among Women Giving Birth at a Major Teaching Hospital in León, Nicaragua: A Qualitative Study. (faculty advisor: Rafael Perez-Escamilla)

Max Wang, YSPH: Macrophage migration inhibitory factor polymorphisms and tuberculosis disease susceptibility in KwaZulu-Natal, South Africa. (faculty advisors: Richard Bucala, MD, PhD; Sheela Shenoi, MD)

Siyu Xiao, YSM: Communication in the Chinese doctor-patient-family relationship: expectations and experiences of surgery patients and their family members. (faculty advisor: Kaveh Khoshnood, PhD, MPH)

Gabriella Adajpon-Yamoah, YSN: Barriers and Facilitators to Advanced Practice Nursing: A Qualitative Case Study in Enugu State. University of Nigeria (faculty advisor: Linda Pellico)


Jose Gutierrez, YSN: Does a Nutritional Program Result in Continued Progress in Children After Discharge of the Program? Identifying Factors That Lead to Success. (faculty advisor: Patricia Ryan-Krause)

Gili Hurua, YSPH: Characterizing Leptospirosis Shedding in Rat Populations of an Urban Slum in Salvador, Brazil (faculty advisor: Albert Ko)

Forest Jones, YSPH: Assessing the relationship between tropical cyclones and outbreaks of typhoid fever in Fiji. WHO West Pacific Regional Office (faculty advisor: Albert Ko)

Alder Keleman, FES: Agrobiodiversity and Food Security in Cochabamba, Bolivia: Household uses of native and traditional crops to buffer risk and promote good nutrition (faculty advisor: Mayur Desai)

Krishnamurthi, Nirupama YSPH: Quantitative study examining the relationship between malnutrition and the prevalence and severity of Chagas disease in children aged 5 years and under in Sierra Nevada de Santa Marta, Colombia (faculty advisor: Mayur Desai)

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Ronnye Rutledge, YSM: Assessment of health-seeking behaviors, mental health indicators and provider perceptions of transgender adults in Malaysia (faculty advisor: Frederick Altice)

Alyaia Sadrudinn, GS: AS-Lived Experiences with Caregiving: An Ethnographic Study of Older Adults in Rwanda (faculty advisor: Catherine Panter-Brick)

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Pauline N. Trinh, YSPH: Chagas Disease in Merida, Mexico (faculty advisor: Maria Diuk-Wasser)

Tambudzai Kudze, YSM: Polymerase Gamma as a Biomarker for HIV Treatment-Experience in Individuals with Mitochondrial Toxicity. University of Ghana Medical School (faculty advisor:Elijah Painstil)

Thomas Lazzarini, YSM: A Study of Guarani-Kaioi Suicide in Mato Grosso do Sul, Brazil (faculty advisor: Robert Rohrbaugh)

Kelsey B. Loeliger, YSMSYPH: Understanding Why HIV-positive Patients Eligible for Antiretroviral Therapy Fail to Initiate Treatment: A Qualitative Study In KwaZulu-Natal, South Africa (faculty advisor: Gerald Friedland)

Luis E. Maldonado, YSPH: The Effects of Dietary Protein Intake on Drug Response among Ghanaian Children Infected with Hookworm. Noguchi Memorial Institute for Medicine, Ghana (faculty advisor: Debbie Humphries)

Trena I. Mukherjee, YSPH: Assessing the moderating effects of stigma in receiving medication-assisted treatment for opiate drug users in prison. University of Malaya (faculty advisor: Frederick Altice)


Katharine A. Owens, GS: Using GPS to quantify human movement patterns affecting environmental exposure to leprosiosis in an urban slum environment in Salvador, Brazil (faculty advisor: Albert Ko)

Julia Raney, YSM: A Descriptive Analysis of the Impact of Multidrug Antiretroviral Therapy on HIV-1 Infected Infants in Porto Alegre, Brazil (faculty advisor: Brian Forsyth)

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Year-Long Research Funding

Doris Duke Charitable Foundation - International Clinical Research Fellowships for Medical Students

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Yale Recipients:
- Rejoice (Fari) Ngonongi (Uganda) 2016-17
- Gerneve Parkinson (Trinidad & Tobago) 2015-16
- Flavia DeSouza (Jamaica) 2014-15
- Sarah Jin (Uganda) 2014-15

Global Health Equity Scholars Program

The Global Health Equity Scholars (GHES) program offers a unique international experience for postdoctoral fellows, and advanced PhD and professional school students. It provides one-year research training fellowship opportunities in global health at top-ranked, NIH-funded centers abroad.

The GHES program is one of five supported by the Global Health Program for Fellows and Scholars funded by the Fogarty International Center at NIH. This program brings together a consortium that includes the University of California, Berkeley, Florida International University, Stanford University, and Yale University.

This program supports a one-year mentored research fellowship for trainees to study slum-related health topics/challenges. Fellows will spend eight to ten months in low-resource settings at one of the 20 program project sites. The research topics can range from infectious diseases to non-communicable chronic diseases, environmental health, mental health, urban planning, engineering, education and others.

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This fellowship is designed for citizens or permanent residents of the U.S. Low- and middle-income country scholars who work at a pre-approved fellowship international site are also eligible. The deadline for this round of awards is December 1, 2016. For more information on eligibility, specific aspects of the fellowship award, and an application, please visit http://ghes.berkeley.edu/.

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The purpose of the Ambassadorial Scholarships program is to further international understanding and friendly relations among people of different countries. While abroad, scholars serve as ambassadors of goodwill to the people of the host country and give presentations about their homelands to Rotary clubs and other groups. More information is available at: http://www.rotary.org/en/studentsandyouth/EducationalPrograms/AmbassadorialScholarships

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Founders Affiliate Medical Student Research Program

The purpose of the grant is to encourage medical students to consider a career in cardiovascular research. The need for new researchers in the health sciences, from basic science to human behaviors, is critical. This program is designed to provide students at the crossroads of career choices an opportunity to experience research first hand with an established investigator.

Awards for student stipends are made for 12 months for $22,000 per year which includes 10% indirect cost.

Application deadline: November 18, 2016 5 p.m E.S.T.

NIH - CTSA TL1 Yale Predoctoral Clinical Research Training Program

This is a one-year clinical translational research fellowship program awarded by the NIH through the Office of Student Research. The program is part of the NIH Roadmap initiative to train and fund more MDs to undertake training, research projects and eventually careers focused on clinical/translational research. To be eligible to apply you must be a U.S. Citizen or Permanent Resident.

How to Apply: Please notify Donna Carranzo at donna.carranzo@yale.edu of your intent to apply and complete the application available at: https://medicine.yale.edu/education/osr/student/funding/oneyear/nihyale.aspx

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The Year-Long Medical Fellows Program opportunities at Janelia and K-RITH are targeted to students with specific research interests and backgrounds, and have additional application requirements.

http://www.hhmi.org/programs/medical-research-fellows-program/year-long-program-at-janelia

Janelia Research Campus

Students interested in neuronal network function or imaging at the cellular and molecular level are encouraged to apply for fellowship positions at HHMI's Janelia Research Campus.

Fellows at Janelia take part in cutting-edge research and work with small, interdisciplinary teams of chemists, biochemists, neurobiologists, geneticists, physicists, computer scientists, mathematicians, and engineers from around the world in a collaborative, creative, resource-rich environment.

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This is a one-year clinical translational research fellowship program awarded by the NIH through the Office of Student Research. The program is part of the NIH Roadmap initiative to train and fund more MDs to undertake training, research projects and eventually careers focused on clinical/translational research. To be eligible to apply you must be a U.S. Citizen or Permanent Resident.

How to Apply: Please notify Donna Carranzo at donna.carranzo@yale.edu of your intent to apply and complete the application available at: https://medicine.yale.edu/education/osr/student/funding/oneyear/nihyale.aspx

Howard Hughes Medical Institute (HHMI) Medical Research Fellows Program at Janelia Farm or K-RITH

The Year-Long Medical Fellows Program opportunities at Janelia and K-RITH are targeted to students with specific research interests and backgrounds, and have additional application requirements.

http://www.hhmi.org/programs/medical-research-fellows-program/year-long-program-at-janelia

Janelia Research Campus

Students interested in neuronal network function or imaging at the cellular and molecular level are encouraged to apply for fellowship positions at HHMI's Janelia Research Campus.

Fellows at Janelia take part in cutting-edge research and work with small, interdisciplinary teams of chemists, biochemists, neurobiologists, geneticists, physicists, computer scientists, mathematicians, and engineers from around the world in a collaborative, creative, resource-rich environment.

Founders Affiliate Medical Student Research Program

The purpose of the grant is to encourage medical students to consider a career in cardiovascular research. The need for new researchers in the health sciences, from basic science to human behaviors, is critical. This program is designed to provide students at the crossroads of career choices an opportunity to experience research first hand with an established investigator.

Awards for student stipends are made for 12 months for $22,000 per year which includes 10% indirect cost.

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This intense research training experience is targeted to highly talented students with a proven track-record of research accomplishment and a commitment to a basic research field being pursued by Janelia investigators.

Life at Janelia includes:

- A full agenda of seminars, conferences, and journal clubs;
- A chance to interact with outside faculty speakers, HHMI investigators, and other renowned researchers;
- State-of-the-art laboratory and conference facilities;
- Well-appointed on-campus housing; and many other amenities.

K-RITH

Students interested in conducting research in HIV, TB, or co-infection in a state-of-the-art research institute at the heart of the TB and HIV epidemics should apply for fellowship positions at K-RITH.

Fellows will spend the year living and working in Durban, South Africa. Students interested in conducting research in HIV, TB, or co-infection in a state-of-the-art research institute at the heart of the TB and HIV epidemics should apply for fellowship positions at K-RITH.

Howard Hughes Medical Institute (HHMI) at Yale

These awards are for one-year student research fellowships either at Yale (or in some instances other institutions). These applications must be reviewed by the Office of Student Research prior to submission. Please notify Donna Carranzo at donna.carranzo@yale.edu if you plan to apply. There are additional forms and training that are required to be completed through Yale's Office of Grants & Contracts before you can submit your fellowship application to HHMI.

Application Deadlines

- December 12, 2016 - Deadline for submission of the personal statement to the Office of Student Research.
- January 11, 2017 - Deadline for submission to HHMI.

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Clinical electives allow students who have completed their MSIII core clerkships to have a clinical experience in another health care system. The following clinical electives are available:

**Argentina**
Sanatorio Allende
Cordoba
Yale Mentor - Dr. Eve Colson

Yale medical students will participate in rounds with the medical team, attend outpatient clinics, as well as round on the in-patient service units. In addition, there may be opportunities to observe and compare clinical activities at other community based public hospitals.

Students are required to speak Spanish on an intermediate level in order to maximize their experience in Cordoba. Clinical rotations are currently available in Nephrology, Cardiology, Ob-Gyn, and Pediatrics.

The principle preceptor on this elective is Dr. Marcello Orias who did his fellowship training at Yale and has a faculty appointment in the Yale Department of Internal Medicine.

**Participants:**
- Jose Luis Gonzalez (2011)  Susan Maya (2014)
- Michael Ma (2012)
- Adelina Hung (2012)
- Marjorie Guerra (2012)
- Nyasha George (2013)

**Argentina**
University of Buenos Aires
Yale Mentor - Dr. Robert Rohrbaugh

The University of Buenos Aires is the largest and most highly regarded university in Argentina.

Because the medical school at UBA is part of a large hospital system, students may choose among many different types of clinical electives.

**CLINICAL ELECTIVE EXPERIENCES IN INTERNATIONAL SETTINGS**

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Clinical Responsibilities:
Clinical rotation sites are available depending on the student’s particular interests. Students are required to have a high degree of fluency in Spanish as rounds and daily activities will be, on most services, conducted in Spanish. UBA requires a language assessment which we will help you arrange.

Participants:
- Noreen Singh (2012)
- Carli Bartabi (2012)
- Michelle Joy (2012)

Chile
New Site 2014-2015
Pontificia Universidad Catolica de Chile (PUC)
Santiago, Chile

Yale Mentor – Dr. George Lister

PUC, a private not-for-Profit University in Santiago, Chile, that includes health professional schools in the fields of medicine, nursing, and dentistry. The medical school, which is viewed as the top school in the country, has established relationships with other institutions in South America as well as worldwide, and is currently part of an international seven school educational consortium directed by the ECFMG. The medical school has a seven-year curriculum whereby students enter after high school and receive elements of undergraduate education combined with a foundation in biomedical science. The medical students have a gradually increasing clinical experience and the final two years are referred to as internship and resemble the clinical rotations during the latter years at Yale School of Medicine. Yale students will work in teams that include interns (6th and 7th year students) from PUC as attending physicians, in a manner similar to that in the US. Many of the senior leaders in the school received some of their medical education outside of the Chile, collaborate with colleagues in the US, are quite attuned to the educational curriculum for students in the US, and have fostered relationships with other institutions.

At PUC, there would be an opportunity to participate in a healthcare system that is organized in a manner that is different from the US and to experience family-based primary care for large populations of patients, emergency care in a large hospital setting for large populations of patients, and emergency care in a large trauma center.

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public hospital, or primary care in a private teaching clinic with resources very much focused on the education of students. Students must speak Spanish on an intermediate level, language assessment required. Clinical rotations at PUC are 4 weeks long.

Participates:
  - Olga Laur (2015)
  - Jacob Siegel (2016)

Colombia
Universidad de los Andes/Fundación Santa Fe de Bogotá
Bogotá, Colombia
Yale Mentor - Dr. Robert Rohrbaugh

Although recently established, the Universidad de los Andes has quickly established itself as one of the top medical schools in Colombia. The Office of International Medical Student Education has been working with the leadership of the University of los Andes and the Fundación Santa Fe de Bogotá (which was founded by two Yale Medical School alumni) to establish a clinical elective program. Students can rotate at the FSFB main hospital or at the primary care clinic FSFB operates in a rural area just outside Bogotá. Both clinical sites demonstrate an impressive commitment to patient centered care and patient safety. In addition to learning about the specialty they choose for their clinical elective, students will have the opportunity to meet leaders at the hospital to learn how they ensure their clinical programs demonstrate the values of patient centered care and patient safety.

Clinical Responsibilities:

Clinical rotation sites are available depending on the student’s particular interests. It is preferred that students have an intermediate level of fluency in Spanish as rounds and daily activities will be, conducted in Spanish.

Participants:
  - Kayasia Ludford (2014)
  - Jorge Ramallo (2014)
  - Maria Nardell (2014)
  - Meredith Binford (2015)

Dominican Republic
Pre-Clinical Site
Instituto Tecnologico de Santo Domingo (Intec)
Santo Domingo, Dominican Republic
Yale Mentor - Dr. Lisa Walke

In 2013, a pre-clinical site was established in the Dominican Republic at the Instituto Tecnologico de Santo Domingo “Intec.” The objective of this week long program. Students can rotate at the FSFB main hospital or at the primary care clinic FSFB operates in a rural area just outside Bogotá. Both clinical sites demonstrate an impressive commitment to patient centered care and patient safety. In addition to learning about the specialty they choose for their clinical elective, students will have the opportunity to meet leaders at the hospital to learn how they ensure their clinical programs demonstrate the values of patient centered care and patient safety.

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elective is to teach students about the delivery of health care in an international setting and the impact of social determinants of health in the Caribbean. Emphasis is given to the challenges and opportunities for providing care in a resource limited country and the major communicable and non-communicable diseases in the Dominican Republic.

A key component is the educational exchange with Intec students and faculty. Yale medical students are paired with Intec 4th year medical students and a Yale faculty member. Patient based teaching is provided at public and private hospitals in the morning; afternoons are spent in clinic providing free care to local uninsured workers. Additional education is provided via faculty didactics and Yale-Intec student presentations.

Spanish language proficiency is not required, but a minimum of a beginner level is encouraged. Fourth and 5th year students are also welcome to apply. Student Participants:


Yale Faculty Participants:

- Dr. Daniel Federman (2013)
- Dr. Cynthia McNamara (2013)
- Dr. France Galerneau (2013, 2014, 2015, 2016)
- Dr. Anna Staiakani (2015, 2016)
- Dr. Cynthia Gnesco-Wilamo (2015, 2016)
- Dr. Ali Suliman (2016)
- Dr. Lourdes Aviles Rios (2016)

Brown Faculty Participants:


New during the AY2014-15. Intec became a clinical rotation site as well. Students with at least an intermediate level Spanish, are able to do a four-week clinical rotation in either Internal Medicine, Surgery, Psychiatry, Ob Gyn, or Pediatrics.

- Dr. France Galerneau (2013, 2014, 2015, 2016)
- Dr. Anna Staiakani (2015, 2016)
- Dr. Cynthia Gnesco-Wilamo (2015, 2016)
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Participants:
  • Ken Hui (2015)

Ghana
New Site in AY2015-16!
University of Ghana School of Medicine and Dentistry (UGSMD)
Accra, Ghana
Yale Mentor – Dr. Elijah Paintsil

Established in 1962, UGSMD, was the first medical school in Ghana. Students wishing to do an elective in Ghana have the option to do a 4-6 week rotation in one of the following areas: Internal Medicine, Pediatrics, ObGyn, Surgery and Anesthesia.

  • Chris Marfo (2017)

Indonesia
Alam Sehat Lestari Clinic
Borneo, Indonesia
Yale Mentor - Dr. Kathleen White

ASRI was founded by Dr. Kinari Webb, a Yale School of Medicine graduate, who developed this very innovative model of linking human health with the health of the rain forest. The staff of the ASRI program are all Indonesians. Fifteen to twenty western medical volunteers spend time at the clinic each year assisting with patient visits at the clinic, mobile clinic rotations, research, and training local medical staff. These volunteers are a critical part of the program’s goal to build local medical capacity in Indonesia.

Medical students will be able to work with Dr. Webb if she is on site or with one of the volunteer physicians to treat patients both at the site of the clinic as well as on mobile clinic visits to communities in the rainforest. Students will also be able to observe the rain forest conservation work that is being conducted on site and how the clinic attempts to play a role in salvaging the rain forest.

This is a low technology setting and so students will principally rely on history and physical exam skills. Learning to utilize Ultrasound technology before going on the elective would be very useful.

Students will usually be paired with an Indonesian student from Jakarta who will serve as the student's language and cultural broker. Students should be prepared for living conditions that accompany a clinic in a low income setting on the edge of a rain forest.

Participants:
  • Mei Elansary (2011) Andrew Young (2015)

Participants:
  • Ken Hui (2015)

Ghana
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Accra, Ghana
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Jamaica
New Site 2014-15
University of the West Indies (UWI)
University Hospital
Kingston, Jamaica
Yale Faculty Mentor – Dr. Robert Rohrbaugh
Our site in Jamaica is for Yale medical students who are interested in global health from a surgical perspective. Students will participate in surgical rounds at the University Hospital in Kingston. Paired with UWI students, Yale students will have the opportunity to work with Dr. Hilary Brown. Dr. Brown, a native of Jamaica, completed her surgical residency and later, fellowship at Yale.

Student will be housed in student housing on the Mona campus of UWI in Kingston.

Participants:
• Kayisia Ludford (2014)
• Chung-Sang Tse (2015)

Mexico
New Site 2014-15
Tec de Monterrey, Escuela de Medicina
Mérida or Guadalajara, México
Yale Mentor- Dr. Robert Rohrbaugh
Yale University has a growing relationship with the Tecnológico de Monterrey (Tec), which began in 2005 and has further expanded through various educational opportunities across the Yale and Tec campuses. Tec is one of the largest and most well-respected educational institutions in Mexico.

One of our newer additions to the YSM international clinical elective sites, students will have the opportunity to spend a four week clinical rotation in Mérida, the capital of the state of Yucatán, located on the southeastern end of Mexico, less than 50 km from the Gulf of México. Yucatán borders with the state of Quintana Roo to the east, Campeche to the west, and the Gulf of México to the North. A second site option for students who wish to be at one of the Tec campuses, will be Guadalajara. In Guadalajara students will have the opportunity to rotate with Tec students at one of five hospitals.

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• Kayisia Ludford (2014)
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Kingston, Jamaica
Yale Faculty Mentor – Dr. Robert Rohrbaugh
Our site in Jamaica is for Yale medical students who are interested in global health from a surgical perspective. Students will participate in surgical rounds at the University Hospital in Kingston. Paired with UWI students, Yale students will have the opportunity to work with Dr. Hilary Brown. Dr. Brown, a native of Jamaica, completed her surgical residency and later, fellowship at Yale.

Student will be housed in student housing on the Mona campus of UWI in Kingston.

Participants:
• Kayisia Ludford (2014)
• Chung-Sang Tse (2015)

Mexico
New Site 2014-15
Tec de Monterrey, Escuela de Medicina
Mérida or Guadalajara, México
Yale Mentor- Dr. Robert Rohrbaugh
Yale University has a growing relationship with the Tecnológico de Monterrey (Tec), which began in 2005 and has further expanded through various educational opportunities across the Yale and Tec campuses. Tec is one of the largest and most well-respected educational institutions in Mexico.

One of our newer additions to the YSM international clinical elective sites, students will have the opportunity to spend a four week clinical rotation in Mérida, the capital of the state of Yucatán, located on the southeastern end of Mexico, less than 50 km from the Gulf of México. Yucatán borders with the state of Quintana Roo to the east, Campeche to the west, and the Gulf of México to the North. A second site option for students who wish to be at one of the Tec campuses, will be Guadalajara. In Guadalajara students will have the opportunity to rotate with Tec students at one of five hospitals.

Participants:
• Kayisia Ludford (2014)
• Chung-Sang Tse (2015)
Clinical Responsibilities:

Clinical rotation options are available depending on the student's particular interests. Students are required to have an intermediate level of fluency in Spanish as rounds and daily activities will be conducted in Spanish. The services available to Yale Students rotating at Clínica de Mérida include: Primary Care, Surgery and Obstetrics and Gynecology. For those students interested in Guadalajara, services include: Radiology, Neurology, Psychiatry, Ophthalmology, Orthopedics, General Surgery, Emergency Medicine, or Dermatology.

- Megan Rowlands (2016)

People's Republic of China

Xiangya Hospital System

Changsha, Hunan Province

Various disciplines

Yale Mentor - Dr. Robert Rohrbaugh

Clinical Responsibilities:

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- Megan Rowlands (2016)

People's Republic of China

Xiangya Hospital System

Changsha, Hunan Province

Various disciplines

Yale Mentor - Dr. Robert Rohrbaugh

The Yale-China Association founded the Xiang-Ya (Hunan-Yale) Hospital and medical school over 100 years ago. Xiangya was one of the top schools in China and continues to be a high regarded, central government funding medical school. Facilitated by the Yale China Association health committee staff (Dr. Hongping Tian and Ms. Lucy Yang), we are able to develop elective rotations in many disciplines at Xiangya. This has been a truly bilateral exchange with Xiangya students, residents and faculty spending time on the Yale campus.

Changsha is a medium sized Chinese city of about 7 to 8 million people. About 1.2 million of these individuals have come to Changsha from to countryside to seek work. Students will be able to gain some first-hand experience regarding the difficulties of providing health care for this population and experience some of the environmental challenges of rapid industrialization. Hunan is well known for its spicy regional cuisine.

Selection will in part depend on finding a mentor who will be able to work with the student in that department. Traditional Chinese Medicine is a well-regarded independent department at the medical school and students may be interested in spending some time with these physicians.

Medical students in China tend to be in more of an observer role rather than being actively engaged in caring for patients. Thus, Yale students going to Xiangya should be prepared to round with the care team but not to have weight-bearing clinical responsibilities.

Knowledge of Mandarin would be useful in gaining a fuller understanding of the system of care, but is not a requirement for the rotation. Xiangya will assign a medical student to assist non-Mandarin speakers.

Clinical Responsibilities:

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Changsha, Hunan Province

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Xiangya Hospital System

Changsha, Hunan Province

Various disciplines

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- Rachel Wattier (2009)
- Ying Wang (2009)
- Audrey Provenzano (2010)
- Kesi Chen (2011)
- Joshua Au (2012)
- Odayme Quesada (2012)
- Michael Soule (2012)
- Adam Sang (2012)
- Raj Chovatyva (2016)
- Wei Gu (2013)
- Oluwatosin Olowokon (2013)
- Nazlee Zeberdast (2013)
- Bingnan Zhang (2013)
- Harrison Bai (2013)
- Chineime Enyihcha (2013)
- Timothy Law (2013)
- Adam Sang (2013)
- Kathleen Fenn (2014)
- Eric Kuo (2014)
- Rabeena Khan (2014)
- Daniel Lu (2014)
- Michelle Chen (2014)

Participants to Yale:
- Ji Li (2012)
- Chengyuan Song (2012)
- Yuan Liu (2012)
- Weiqing Wang (2012)
- Shiyu Chen (2013)
- Zijin Zhao (2013)
- Fei Shao (2013)

Peru
**Mental Health Commission of Ayacucho, Ayacucho, Peru**

Ayacucho, Peru, was the birthplace of the Shining Path terrorist group, and nearly 70,000 people were killed by the Shining Path and the Peruvian military during the 1980’s and 1990’s. The Mental Health Commission of Ayacucho (COSMA) ([www.ayacuchomentalhealth.org](http://www.ayacuchomentalhealth.org)) was founded in 2003 by a member of a Catholic religious order to serve the survivors, and it remains the only mental health organization serving the survivors.

Peru
**Universidad Peruana Cayetano Heredia (UPCH), Lima, Peru**

- Anthony Marfeo (2009)
- Rachel Wattier (2009)
- Ying Wang (2009)
- Audrey Provenzano (2010)
- Kesi Chen (2011)
- Joshua Au (2012)
- Odayme Quesada (2012)
- Michael Soule (2012)
- Adam Sang (2012)
- Raj Chovatyva (2016)
- Wei Gu (2013)
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health clinic in the Peruvian Andes. Yale psychiatrists James Phillips and Mark Rego established a collaboration with COSMA shortly after its creation, which includes traveling to Ayacucho twice yearly (usually July and December/January) to provide direct patient care, as well as classes and supervision for the clinic’s psychology interns. The most common diagnoses include depression and schizophrenia.

In addition, the Peruvian American Medical Society (PAMS) runs a two week long medical clinic in July. Students interested in all disciplines of medicine can spend time at this clinic, though which PAMS members decide to volunteer for that particular trip will determine what specialty specific care will be available.

UPCH is a medical school associated with a number of hospitals in Lima Peru. Students can choose among many specialties or disciplines for their clinical elective. Dr. Alfredo Massa, a Yale fellowship trained addiction psychiatrist who lives in Lima) serves as a cultural mentor for all students and clinical mentor for those students interested in mental health or substance abuse disorders.

Clinical Responsibilities:

At COSMA, students will interview patients alongside Dr. Massa or other Yale psychiatrists. They will also attend home visits with the psychiatric nurses, who assess patients’ response to treatment, check their adherence to medication, provide support, and answer questions.

At the PAMS clinic, students will be able to observe physicians working with a largely Quechua and Spanish speaking population. The ability to do home visits with the COSMA team is open to all students attending the program.

At UPCH, students have the option to rotate through various services, including the emergency room, inpatient wards, and consultation services. Activities will include participating in team rounds and interviewing patients.

Students should have an advanced intermediate Spanish fluency though special arrangements may be able to be made for those students who have less advanced Spanish fluency.

Participants:


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Participants:

Although TB is the leading cause of death among HIV-infected patients in South Africa, care of the two diseases has been separate, leading to fragmented patient care and suboptimal patient outcomes. Dr. Gerald Friedland has worked on projects integrating care for HIV and TB and this is the focus of collaborative operational research projects in KwaZulu Natal. In addition, the discovery of XDR TB has been a focus of a more recent investigation. The surrounding area is hilly, mountainous, and very rural with one tarred road, dirt roads and paths, and humble family compounds. The site affords a genuine rural African medical experience.

While students will have protective gear to wear during clinical experiences at Tugela Ferry, students must consider that XDR TB is a potentially fatal disease. In particular, any student who may be immune-compromised should not consider this site for a clinical rotation.

The clinical experience will be largely in an outpatient clinic and will be supervised by either Dr. Friedland or Dr. Sheela Shenoi. Opportunities to work with home care workers providing DOT may also be available.

**Participants:**
- Johnathon Bernard (2009)  
  - Rachel Solomon (2009)  
  - Erica Mintzer (2009)  
  - Titilope Oduyeb (2009)  
  - Natalie Spiry (2010)  
  - Badri Modi (2012)  
  - Soledad Jorge (2013)  
  - Michael Peluso (2013)  
  - Kavitha Radhakrishnan (2013)  
  - Barishe Mandimika (2013)  
  - Jordan Stoshower (2014)  
  - Barbara Chaiyachati (2014)  
  - Emily Thomas (2014)

**Thailand**

Thampracharak (Wat Rai Khing) Hospital  
Yale Mentor - Dr. Susan Forster

Dr. Pannet Pangthupitpong, the current director of the hospital, is an internationally renowned ophthalmologist who performed the first phacoemulsification in Thailand and has been instrumental in introducing this technique. Dr. Pannet Pangthupitpong has performed over 10,000 phacoemulsifications and has been instrumental in introducing this technique internationally.

**Participants:**
- Johnathon Bernard (2009)  
  - Rachel Solomon (2009)  
  - Erica Mintzer (2009)  
  - Titilope Oduyeb (2009)  
  - Natalie Spiry (2010)  
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  - Barishe Mandimika (2013)  
  - Jordan Stoshower (2014)  
  - Barbara Chaiyachati (2014)  
  - Emily Thomas (2014)
surgical technique in Thailand. He has personally instructed many—if not most—Thai ophthalmologists in phacoemulsification.

The hospital is located in Nakomprathom province, adjacent to Bangkok, and approximately 40 minutes drive west of the city center. This province is well known for a number of historic sites, including Wat Rai Khing temple. Mettaphracharak hospital is administratively part of the Department of Medical Services at the Ministry of Public Health.

Dr. Puwat Charukamnotekanok, the hospital’s director of international affairs, will serve as an on-site director of the exchange program. He and Dr. Pannet will collaborate with our Yale faculty and Yale Eye Center staff.

The elective is offered to one or two Yale students at any given time, for a minimum of 6 weeks during which they would be paired with an ophthalmology resident from Mettaphracharak hospital. The students will observe and participate in the care of the patients to the extent of their abilities, participating in rounds and other clinical activities including observation in the operating rooms. They will have the opportunity to develop hand-on surgical skills in the well-equipped microsurgery training center. They will also accompany the frequent outreach mission throughout Thailand when they occur during the rotation. Transportation on these missions will be provided by the hospital.

Participants:

• Benjamin Erickson (2010)  
• Narae Ko (2011)  
• Sumayya Ahmad (2011)  
• Xuejing Chen (2012)  
• Esther Lee (2012)  

Students, who are funded through grants from the Office of International Medical Student Education, will observe on several inpatient clinical services at the hospital. The hospital is severely under-resourced and so routine tests and procedures that would be available at Yale may not be able to be provided at Mulag. The Ugandan physicians utilize history and physical exam skills to establish diagnoses and follow patient progress. Physical exam rounds by expert clinicians will help Yale students hone their own physical exam skills. Medical students who do a clinical elective at Mulag will learn about the effects surgical technique in Thailand. He has personally instructed many—if not most—Thai ophthalmologists in phacoemulsification.

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of the HIV epidemic on the Ugandan population. Many of the patients hospitalized at Mulago Hospital have quite advanced presentation of illness and so students should prepare themselves for the experience that a large minority of patients admitted to the hospital may die in the hospital.

Language, history and cultural experiences will be provided through faculty lectures and interactions with the students. Students frequently utilize weekends to travel to other parts of the country.

Participants from Yale:

- Allison Arwady (2007)
- Rachel Laff (2007)
- Lily Horng (2007)
- Temidayo Fadule (2008)
- Jennifer Voorhees (2008)
- Carolyn Avery (2008)
- Terri Huynh (2009)
- Merritt Evans (2009)
- Elizabeth Kvac (2009)
- Monica Mix (2009)
- Esi Nkvyekyer (2009)
- David Scales (2009)
- Kamila Sikora (2009)
- Sara Whethstone (2009)
- Deanna Wilson (2009)
- Michael Dewan (2010)
- Jacob Brubacher (2010)
- Sonja Rakowski (2010)
- Ravi Kavasey (2010)
- Qi Zheng (2010)
- Marie Bowley (2010)
- Jana Hafton (2010)
- Daniel Solomon (2010)
- Carrie Thiessen (2010)
- Isaac Benowitz (2011)
- Michael Otremba (2011)
- John Thomas (2011)
- Odayme Quesada (2011)
- Grace Warjuku (2011)
- Chantae Sullivan (2011)
- Kofi Buaku Atsine (2011)

Participants to Yale:

- David Mukunya (2012)
- Tony Orach (2012)
- Tadeo Kiiza (2012)
- David Mukunya (2012)
- Tony Orach (2012)
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56

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Participants to Yale:

- David Mukunya (2012)
- Tony Orach (2012)
- Tadeo Kiiza (2012)
Other Clinical Opportunities

**Ecuador**

Clínica Misional "Nuestra Señora de Guadalupe": An Opportunity for Medical Volunteers

Yale Mentor – Dr. Serle M. Epstein

Dr. Epstein is a private practitioner of internal medicine and primary care. He is an Associate Clinical Professor, Department of Internal Medicine, Yale University School of Medicine, in New Haven, Connecticut.

Zamora-Chinchipe Province in Ecuador is home to about 90,000 people and abuts other Andean provinces of similar size. Most residents of this agrarian region are indigenous Shuar, Saraguro, or mixed heritage Indian/Spanish. They live in rural villages and in some larger towns that serve as trade, political, and religious centers. The majority of the people are subsistence farmers, miners, and small shopkeepers.

Outreach to Remote Villages:

Outreach is done to even more isolated or underserved villages via mobile health fairs. One such "Jornada Médica" occurred in October 2006. Through 2009 more than 30,000 patient visits have taken place on such missions, including house calls. Coincidently the schools are often visited for dental hygiene screening and mouth care instruction. Each health fair is within 1 or 2 days' travel from the main facility in Guadalupe, or in communities served by a Centro de Salud, allowing for continuity of care. Such mobile missions continue to be organized by the Clínica Misional two to four times annually.

Participant:

- Jordan Sloshower (Fall 2011)

**Zambia**

Mwandi Hospital

Mwandi

Surgery

Yale Mentor - Dr. Michael O'Brien

Dr. Michael O'Brien, Department of Surgery, makes an annual two-week trip to the village of Mwandi, on the Zambezi River in southwest Zambia, volunteering in

Other Clinical Opportunities

**Ecuador**

Clínica Misional "Nuestra Señora de Guadalupe": An Opportunity for Medical Volunteers

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**Zambia**

Mwandi Hospital

Mwandi

Surgery

Yale Mentor - Dr. Michael O’Brien

Dr. Michael O’Brien, Department of Surgery, makes an annual two-week trip to the village of Mwandi, on the Zambezi River in southwest Zambia, volunteering in
the local Mwandi Hospital, a 50-bed rural facility. Dr. O’Brien takes one 4th/5th year medical student with him to assist in general surgical and medicine responsibilities. The student must have completed both surgical and medicine clerkships and express a strong interest in international health. Costs are subsidized in part by students applying to The Yale Surgical Society, but students are also expected to contribute.

Mwandi Hospital is a rural 50 bed hospital located in the village of Mwandi, on the Zambezi River, midway between Livingstone and Sesheke, in the southwest corner of Zambia. The medical experience would primarily be surgical but students would be caring for patients with infectious and medical diseases as well.

For more information, contact Michael.Obrien@yale.edu.

Participants:

The Gilead Foundation has provided travel awards for clinical electives for Yale students in China, Indonesia, Peru, South Africa, and Uganda. In addition, the foundation supports travel awards for medical students from China and China to come to Yale for a clinical elective.

Participants from Yale:

To Argentina
- Victor Zhu (2016)

To Chile
- Jacob Siegel (2016)

To China
- Anthony Marfeso (2009)
- Rachel Wattier (2009)
- Ying Wang (2009)
- Audrey Provenzano (2010)
- Kei Chen (2011)
- Adam Sang (2012)
- Joshua Au (2012)
- Stacey Kahem (2012)
- Odaye Quesada (2012)
- Michael Soule (2012)
- Michael Alpert (2013)
- Harrison Bai (2013)
- Ruijun Chen (2013)
- Chinen Efroyiza (2013)
- Wei Gui (2013)
- Timothy Law (2013)
- Oluwatosin Onibokun (2013)
- Adam Sang (2013)
- Nazlee Zabetast (2013)
- Bingnan Zhang (2013)

To Indonesia
- Jessica Crawford (2010)
- Amanda de la Paz (2010)
- Mei Eiamsary (2011)
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To Dominican Republic
- Ken Hui (2015)

To Argentina
- Victor Zhu (2016)

To Chile
- Jacob Siegel (2016)

To China
- Anthony Marfeso (2009)
- Rachel Wattier (2009)
- Ying Wang (2009)
- Audrey Provenzano (2010)
- Kei Chen (2011)
- Adam Sang (2012)
- Joshua Au (2012)
- Stacey Kahem (2012)
- Odaye Quesada (2012)
- Michael Soule (2012)
- Michael Alpert (2013)
- Harrison Bai (2013)
- Ruijun Chen (2013)
- Chinen Efroyiza (2013)
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Yale Alumni Endowments

Five endowments from generous alumni provide funding for medical students to complete clinical experiences in international settings. Each of these endowments has been developed to support travel and living expenses for a highly motivated medical student who wishes to do a rotation in an underdeveloped country or a country where there is a pressing health-care need. For more information, contact the Office of International Medical Student Education.

These travel awards and recent recipients are:

- **Eric P. Kindwall, ’90 International Clinical Rotation Fund**
  - This fund supports travel and incidental expenses for an international clinical rotation for a highly motivated medical student who wishes to do their rotation in a developing country but lacks the means for such an experience.
    - Allison Anwady, Mulago Hospital, Kampala, Uganda (2007)
    - Leah McNally, Cordoba, Argentina (2009)
    - Yoshio Katoike, Buenos Aires, Argentina (2010)
    - Adelina Hung, Cordoba, Argentina (2012)
    - Barbara Chaiyachati, Tugela Ferry, South Africa (2013)
    - Regina Melendez, Brazil (2015)
    - Dame Issosa, South Africa (2015)
    - Tiffany Yuh, South Africa (2015)
    - Luis Rubio, South Africa (2016)

- **Susan Wolf, MD and William Green, MD Fund for International Clinical Rotations**
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This fund is intended to support the travel, living and preparatory expenses (e.g. immunizations, evacuation insurance, etc.) for an international health-related experience of a highly motivated medical student(s) or MD/PhD student(s) who lacks the means for such an experience. It is to support an international clinical opportunity that exposes students to under-served populations.

- Rachel Laft, Mulago Hospital, Kampala, Uganda (2007)
- Sumayya Ahmad (2010)
- Esther Lee, Thailand (2012)
- Xuejing Chen, Thailand (2012)
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**Mitchell Edson MD, Fund for International Clinical Rotations**

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- Tyler Dodds, Peru (2010)
- Marjorie Guerra, Cordoba, Argentina (2012)
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**Howard A. Minners, M.D. 1957 International Fellowship**

The Minners fellowship will fund the travel and living expenses for an international health-related experience for a student, resident or faculty member.

- Thomas Morland, Cordoba, Argentina (2009)
- Regina Myers, Keene, UK (2011)
- Mona Guo, China (2015)
- Amanda Wallace, China (2015)
- Jia Liu, China (2015)
- Anna Sfakianaki, Fac.to Dominican Republic (2016)
- Cynthia Gneo-Wilamo, Fac. to Dominican Republic (2016)

**The Major Jose Jamil Miranda Memorial Fund for Clinical Rotations**

This fund is intended to support the travel, living and preparatory expenses (e.g. immunizations, evacuation insurance, etc.) for an international health-related experience of a highly motivated medical student(s) or MD/PhD student(s) who lacks the means for such an experience. It is to support an international clinical opportunity that exposes students to under-served populations.

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This fund is to assist Yale School of Medicine students who are pursuing a short-term clinical, public health, or research experience, by enabling the exploration of an area of medicine or public health in a unique and under-served setting. While an international experience is preferred and encouraged, the location may also be domestic.

- Jordan Slowshower, Peru and Ecuador (2011)
- Anna Beckett, Haiti (2014)
- Regina (Melendez) Nagarajan, Peru (2015)
- Jacob Siegel, Chile (2016)

**Schwartz Fellowship**

This fellowship is to support the travel, housing, medications and immunizations, evacuation insurance, visa and HIV Prophylaxis expenses for an international clinical rotation of a highly motivated medical student.

- Connie Cheng, China (2016)

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### Yale Surgical Society’s Lindskog International Travel Award

The Yale Surgical Society has endowed two fellowships to partially offset student travel costs associated with international travel to present a paper or to engage in a clinical project related to the specialty of surgery. This program coordinates with the Office of International Medical Student Education, but the Yale Surgical Society conducts the application and selection process.

**Past recipients:**

- Matthew McRae (2008)
- Carolyn Goldberg (2009)
- Jill Rubenstein (2009)
- Rajendra Sawh-Martinez (2009)
- Matthew Homnick, Zambia (2010)
- Laura Tom, San Pedro Sula, Honduras (2010)
- Adam Sang, Zambia (2012)
- Rachel Lentz, Honduras (2013)
- Okuhade Oluwarotimi, Zambia (2013)
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The Albert Schweitzer Fellowship

Each year since 1979, The Albert Schweitzer Fellowship has selected four senior medical students to spend three months working as Fellows at the Albert Schweitzer Hospital in Lambaréné, Gabon on clinical rotations. Fellows are eligible for pediatrics or medicine rotations, and work as junior physicians, supervised by hospital medical staff. Beginning in 2007, The Albert Schweitzer Fellowship will send and up to 100 Public Health Fellows to serve at the Albert Schweitzer Hospital in Lambaréné, Gabon. Public Health Fellows will work with the Hospital’s Community Health Outreach Program, which provides village-based health care, including maternal/child health, HIV/AIDS education and prevention, TB education and follow-up, and malaria prevention and treatment. Involvement in one or more outreach projects of the Hospital’s world-renowned Medical Research Unit (www.lambarene.org) may be possible. The Albert Schweitzer Fellowship provides complete funding for students (airfare, room, board, immunizations, etc.). Information on the Albert Schweitzer Fellowship is available at: http://www.schweitzerfellowship.org.

Past recipient:
- Rachel Laff (2006)

Benjamin H. Kean Traveling Fellowship in Tropical Medicine

The American Society of Tropical Medicine and Hygiene has established a fellowship in Dr. Kean’s name, administered by the ASTMH Clinical Group (American Committee on Clinical Tropical Medicine and Traveler’s Health - ACTCTMTH), that will provide travel expenses for medical students who arrange clinical tropical medicine or tropical medicine research electives in areas afflicted by tropical diseases. Round-trip airfare (best-price ticketing) and up to $1000 toward living expenses will be provided. Kean Fellows will be required to prepare and present reports describing their activities.

CDC - Hubert Global Health Fellowship

Available for research as well as clinical electives.

This fellowship is administered through the Centers for Disease Control and Prevention Foundation and provides an opportunity for third and fourth year medical students to gain public health experience in an international setting. Hubert fellows spend four to twelve weeks in a developing country working on a priority health problem in conjunction with CDC staff. Through these experiences, students establish relationships with and receive training from recognized experts from CDC and other national and international health agencies.

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Many YSM students elect to take a “fifth year,” typically between the third and fourth years of the curriculum. During this year students complete clinical electives, research, or service work domestically and abroad, and/or enroll in alternative degree programs (e.g. MPH, MBA, etc). The fifth year is often funded in full through various fellowships available to Yale students. If you are interested, The Office of Student Research will work with you to decide which opportunities and funding source is best for you. Many students take this year to participate in global health related work; some additional and Yale-specific opportunities are listed below.

Comparative Bio-ethics: The Yale / Keele Collaboration

This program supports an individual interested in comparing bioethical issues in the US and England. Students are eligible for the program if they have completed all required third year clerkships. Ideally, interested students would take a Health Policy and Ethics seminar and a directed reading course at the Bioethics Center in the Fall Semester. In the Spring Semester students would travel to Keele Medical School in England for three months. In order to fully understand the differences in the US and English system of care, students will participate in a clinical elective at Keele University. Students will also undertake a research project comparing the US and UK systems of medical care and differences in their response to a specific bioethical issue. This research could serve as the basis for a thesis. While in England, students will serve as a teaching assistant in a class on Medical Ethics at Keele University. In exchange for mentoring junior medical students in the Medical Ethics course, Yale medical students will receive a stipend which would largely offset room and board during their time at Keele University. In addition, Keele University would waive all tuition fees for the course of study. Mentorship for Yale Medical Students in England would be provided by the Medical Ethics course director, Dr. Roger Worthington.

Students who have participated:


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Opportunities for Service
The contacts for the groups listed below change annually and some may not have been available at the time of printing. Please visit http://medstation.yale.edu/groups/ for more current contact information.

Global Health Opportunities
1. American Medical Student Association
The American Medical Student Association is an advocacy organization for the interests and beliefs of the medical students of the United States, including advocating improved global health in any way possible. Locally at Yale, AMSA runs a student blog that engages students to write about issues in global health and health policy. Additionally, AMSA has a program that pairs health professional students at Yale with visiting medical students on rotations from other countries to help these students make connections here at Yale and help our own students develop connections in international medicine. For more information visit: http://www.amsa.org/chapters/active/

2. CARE: Community Alliance for Research and Engagement/Neighborhood Health Project
CARE’s research tackles chronic disease by focusing on social, environmental, and behavioral risk factors. CARE conducts longitudinal intervention studies in New Haven neighborhoods and schools, including cohort studies and randomized trials that are designed to measure, better understand, and help reverse these trends. CARE seeks projects that aim to improve health and relate in some way to major risks for chronic disease by impacting access to healthy foods and healthy eating and increasing physical activity. For more information visit http://care.yale.edu/

3. Columbus House
The Columbus House is a shelter serving hungry and homeless individuals in the New Haven community. Every Tuesday and Thursday evening, Yale medical, PA, and nursing students assist a local physician's associate in providing medical treatment, consultation and screenings to the shelter's residents. Contact: Elliot Morse (ellie.morse@yale.edu)

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4. China Health Network
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5. Downs International Health Student Travel Fellowship
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5. Downs International Health Student Travel Fellowship
The Downs International Health Student Travel Fellowship honors Wilbur G. Downs (1913 – 1991), M.D., M.P.H., Professor of Epidemiology and Public Health, Yale University School of Medicine, renowned physician/scientist in the fields of tropical medicine and infectious diseases, mentor to many students and colleagues. The Fellowship supports Yale students who undertake biomedical, medical, nursing and/or public health research in developing countries. The Downs Fellowship Committee awards Downs Fellowships based on merit. Downs Fellows carry out research in the context of their host countries’ culture, health problems and resources. The Fellowship provides funds for transportation to and from overseas project sites, cost of visas, specific-drug use, immunizations, evacuation insurance and a modest stipend. Although students may initiate projects, Yale faculty members provide intellectual support, practical assistance and links with host-country sponsors who serve as mentors during the Fellows time abroad. The choice of research topic and methodological detail are joint responsibilities of applicants and advisors. Any member of the Yale faculty may sponsor applicants. Contact: Anjuli Bodyk at (anjuli.bodyk@yale.edu)

7. Global Health Leadership Institute (GHLI)
As part of its ongoing commitment to engage with the international community to improve health worldwide, Yale has launched the Global Health Leadership Institute (GHLI) as part of its ongoing commitment to engage with the international community to improve health worldwide, Yale has launched the Global Health Leadership Institute (GHLI)
Institute (GHLI). The mission of GHLI is to develop the next generation of global health leaders at Yale and around the world through innovative educational, training and research programs to strengthen health systems and ensure health equity and quality of care for all. GHLI supports health leaders to improve the performance of health systems through leadership development, quality improvement programs, and health systems research. The Institute is also a center for debate and progress on leadership and other critical global health issues. GHLI is guided by a model of strategic problem solving which posits that the close integration of academic and practitioner perspectives is central to ensuring positive and lasting change. This model requires specification of the targeted problem, identification of core strategies to achieve a defined objective, leadership to implement the strategy and rigorous measurement to support continuous improvement programs, and health systems research. The Institute is a center for debate and progress on leadership and other critical global health issues. GHLI is guided by a model of strategic problem solving which posits that the close integration of academic and practitioner perspectives is central to ensuring positive and lasting change. This model requires specification of the targeted problem, identification of core strategies to achieve a defined objective, leadership to implement the strategy and rigorous measurement to support continuous improvement programs, and health systems research.

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8. The Global Health Interest Group
The Global Health Interest Group is for students interested in global health issues, doing clinical electives abroad, collaborating with international students and faculty, and conducting global health research please contact the Global Health Coordinator, Andrew Koo at andrew.koo@yale.edu for more information. To be added to the listserv please visit http://mailman.yale.edu/mailman/listinfo/globalhealth

9. Haven Free Clinic
The Haven Free Clinic is organized by students from Yale School of Nursing, Yale School of Medicine, Yale School of Public Health and Yale Physician Associate Program, in collaboration with the Fair Haven Community Health Center. The clinic is dedicated to serving as a sustainable free clinic that provides uninsured adults in the Fair Haven neighborhood with primary care, wellness education, and assistance in securing health care. Haven further aims to educate Yale health professional students about primary care and the value of working in health care teams; to allow students to gain experience in community health; and to expose students to the challenges of managing patient care with limited resources. Our model is unique in its inclusion of students across the disciplines of medicine, nursing, physician’s associates, and public health. Teams of senior and junior students see patients with guidance from faculty preceptors. Currently, we see an average of 20 patients per week. Haven operates Saturdays from 9am-2pm out of the Fair Haven Community Health Center. Visit havenclinic.org for more information or email elysianscace@yale.edu or hfcrecruitment@gmail.com.

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through its liaisons, publicity through its public health event calendar, and further information and opportunities for interdisciplinary discussion on our website and blog. As a member of Dwight Hall, we provide volunteer and service information through our booklet of volunteer opportunities, participation in campus service initiatives, and volunteer trips. Visit http://yalephc.org/volunteer/.

13. Mobile Migrant Farm-Workers Health Clinic

This clinic is maintained primarily by students attending the University of Connecticut, School of Medicine, and secondarily by students at Yale. The clinic travels to farms in Windsor, Middletown, Enfield and Suffield and elsewhere to provide healthcare to migrant workers. It was established in 1998 and runs on Tuesdays, Wednesdays and Thursdays. 6:30 pm to sundown, from mid-June to October. Contact Information: Hartford County Medical Association 1-800-541-5083.

14. Student Global Health and AIDS Coalition (SGHAC)

The Student Global Health and AIDS Coalition seeks to mobilize a student movement at Yale, in partnership with students nationally and internationally, to make claims upon governments, corporation, and civil society through education, leadership training, informed advocacy and direct action. Over the past year and summer, Yale SGHAC has been incredibly active publishing op-ed pieces, hosting advocacy events, meeting with local representatives, and collaborating with various organizations and student groups. Yale SGHAC demands, and will continue to demand, sufficient resources, effective prevention, and guaranteed access to both AIDS and other life-saving treatment and care as a matter of moral urgency. By forming a global youth movement, we will rise to the challenge of fighting the injustices rooted in the struggle against AIDS and global healthcare. For more information, please visit Yale’s Global Health Initiative’s website: http://globalhealth.yale.edu/student-organizations.

15. The Whitney and Betty MacMillan Center for International and Area Studies

The Whitney and Betty MacMillan Center for International and Area Studies at Yale is the University’s principal center for teaching and research on international affairs, societies and cultures around the world. It provides eight undergraduate majors, including one on world regions: Latin American, Middle East, Russian and East European Studies, and South Asian Studies. Two others are focused globally, one on International Studies and the other on Ethnicity, Race, and Migration. At the graduate level, the MacMillan Center provides four master’s degree programs. Three are regionally focused on African, East Asian, and European and Russian Studies, and one is globally focused on International Relations. Open to all graduate and professional students at Yale, the MacMillan Center sponsors seven graduate certificates of concentration. The Councils on African, European, Latin American and Iberian, and Middle East Studies provide four regionally focused certificates. 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16. Unite for Sight

Unite For Sight's Global Impact Corps (http://www.uniteforsight.org/volunteer-abroad) is an immersive global health experience for students and for professionals. All volunteers participating in Unite For Sight's international programs are Global Impact Fellows. Global Impact Fellows support and learn from the partner clinics’ talented medical professionals who are social entrepreneurs and are nurtured to become new leaders in global health, and they receive a Certificate in Global Health & Program Delivery. Global Impact Fellows participate daily with local doctors to eliminate patient barriers to care and to facilitate comprehensive year-round eye care for patients living in extreme poverty. They assist with patient education, visual acuity screening, patient intake, distributing the glasses and medication prescribed by the local eye doctors, and other important support tasks. They also have the opportunity to observe the surgeries provided by the local doctors. Additionally, Global Impact Fellows may participate in the Global Impact Lab, an optional program for those interested in pursuing global health research. For example, current Global Impact Fellows are pursuing research studies about medication management, the use of visual resources for patient education, traditional medicine practices, and patient barriers to care. International volunteering takes place in India, Ghana, and Honduras. http://www.uniteforsight.org/volunteer-abroad., For Spring 2017 they are helping to organize a large global health conference to be hosted at Yale. Please see www.uniteforsight.org.

17. Universities Allied for Essential Medicines (UAEM)

UAEM’s mission is to unite students, faculty, researchers, and university administrators in an effort to broaden access to essential medicines for those most in need. Our efforts include university patent licensing reform, public campaigns, policy advocacy, and bringing international public health issues to conferences and other events. This fall we are gearing up for a major effort to broaden support for research on neglected tropical diseases, as well as our continued efforts to get universities around the globe to make sure their drug discoveries make a difference to those who cannot afford the high-prices of name-brand medications. Yale’s UAEM chapter warmly invites participation from students from absolutely any field, particularly those with an interest in treatment, poverty. They assist with patient education, visual acuity screening, patient intake, distributing the glasses and medication prescribed by the local eye doctors, and other important support tasks. They also have the opportunity to observe the surgeries provided by the local doctors. Additionally, Global Impact Fellows may participate in the Global Impact Lab, an optional program for those interested in pursuing global health research. For example, current Global Impact Fellows are pursuing research studies about medication management, the use of visual resources for patient education, traditional medicine practices, and patient barriers to care. International volunteering takes place in India, Ghana, and Honduras. http://www.uniteforsight.org/volunteer-abroad., For Spring 2017 they are helping to organize a large global health conference to be hosted at Yale. Please see www.uniteforsight.org.

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research, policy, or public advocacy in the in the interest of the poor and underserved. We are a small organization, which means that every single member has the opportunity to make significant contributions to our efforts and to help influence the activities and overall direction of the organization. Visit their website at: www.essentialmedicine.org
Contact: yaleuaemchapter@gmail.com or visit their Facebook page: https://www.facebook.com/YaleIAEMinfo.

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18. Wednesday Evening Clinic Interpreters

The Wednesday Evening Clinic is the longest running student-run clinic at Yale, currently run out of the Primary Care Center on Howard Avenue. The clinic is in need of talented Spanish speakers to serve as interpreters for its Spanish speaking patients. The time commitment is just a few Wednesdays a semester and you can make a big difference in the lives of patients. For more information visit: https://medicine.yale.edu/imphd/research/wec.aspx

19. World AIDS Day Planning Committee

The World AIDS Day Planning Committee is in charge of coordinating activities across all of the health professional schools and beyond for the week of World AIDS Day. Members will network with leaders in global health at Yale to plan activities for the week including a special panel for the Global Health Seminar in honor of World AIDS Day.

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19. YING (The Yale International Nursing Group)

YING (The Yale International Nursing Group) is a forum where all Yale nursing students interested in international health can join in discussions related to the role of nursing in global healthcare and work with like-minded students to explore opportunities to practice nursing internationally while at YSN and beyond. YING members are dedicated to the integration of global health into the YSN curriculum, organizing events related to nursing and global health, accessing international opportunities through Yale University as a whole, and forming of a community of YSN students, faculty, and alumni participating in global work. This group meets about once every month for general discussion and project organization, committees meet as-needed to plan activities and a subset of students also meets once monthly for journal article discussions. Contact: Elizabeth Edwards elizabeth.edwards@yale.edu or https://www.facebook.com/Yale-International-Nursing-Group-YING-182830277092684/.
Language Opportunities
Spanish for Health Care Professionals
Spanish for Health Care Professionals is a hybrid course offered in Fall and Spring by the Yale Center for Language Study. This hybrid course will meet two times a week: one time in a traditional classroom on campus (face-to-face) and another time online. The course fee is $140 for students enrolled in a participating Yale Department or Program. The course fee for students not enrolled at Yale is $175, payable to the Yale University prior the start of the first class. Required Placement Test: You will be given a brief placement test meant to gauge your current abilities and to assist us in placing you in an appropriate course. The placement test, including a video clip and a brief digital recording component, will ideally take no longer than 20 minutes of your time. If you have any questions, please contact: lsp@yale.edu Course Numbers: MD 1375

Medical Spanish Abroad
Many students also choose to go abroad to study at language institutes. One that has been used by numerous Yale students is the Associación Centro de Estudios de Español Pop Wuj, which is based on Guatemala. Information can be found at: http://www.pop-wuj.org. There are of course many others opportunities out there; this is simply one Yale students have had good experiences with.

Yale Language Center / Directed Independent Language Study
This program is designed to give students the opportunity to study languages that are not currently offered through traditional classroom instruction at Yale. More information can be accessed on their website at http://www.cls.yale.edu/dils

Medical Chinese at YSM/Mandarin for Healthcare Professionals
This course is designed for healthcare professionals who would like to gain Mandarin language ability to improve their interaction with and treatment of Chinese patients in the United States. For more information, including course descriptions, please visit http://cts.yale.edu/language-special-purposes

Foreign Language Tutoring
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Student Organizations

Nyasaa Health
Nyasaa Health is a 501(c) (3) nonprofit organization working to improve the health of poor communities in Nepal through the provision of medical and public health services. For more information contact: answers@nyayahealth.org .

Cents of Relief
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Physicians for Human Rights (PHR)
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US Health Justice Collaborative
The US Health Justice Collaborative brings together students and faculty who are interested in issues of health disparities and social justice, including social determinants of health, homelessness, food insecurity, addiction, discrimination, and access to healthcare. The group hosts lectures, discussions, and workshops to help students prepare themselves to address implicit bias, practice physician advocacy, connect with New Haven agencies and organizations, and do meaningful work with vulnerable populations.
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For other listings please visit the Medical Student Council website: http://medicine.yale.edu/education/msc/student_groups/

**AMSA Listservs**
AMSA runs a large number of listservs focusing on many different facets of medicine; amongst these is global health, and several other related listservs. To sign up go to http://www.amsa.org/resource/amsalists.cfm.

**UAEM Listservs**
UAEM runs a national listserv that can be reached at univlist@lists.riseup.net and the Yale-specific UAEM listserv at core-yanlist@panlists.yale.edu. Both can be high-traffic at times.
PREPARATION FOR GLOBAL HEALTH EXPERIENCES

Before leaving on your trip abroad, you should visit the Yale and the World website which provides excellent resources to help you plan your trip. The website address for individual travelers is: http://world.yale.edu/individual-travel

Before leaving on your trip abroad, you should:

1. Check your passport. Will it expire soon and need to be renewed (http://travel.state.gov/content/passports/english/passports/renew.html)?
   - If you do not have a passport, apply now (there may be long waits for U.S. passports).
2. Check the visa requirements for each country you are visiting to see if you need a visa to enter that country. http://cibtvisas.com/index.php?login=49634 or http://travel.state.gov/content/passports/english/passports/renew.html
3. Make an appointment with the Travel Health Clinic at Yale HEALTH, 203-432-0093. The Clinic provides pre-travel care including consultation, education, vaccination, travel medications, and, if necessary, referrals.
4. Understand any changes in your health insurance coverage while you are abroad.
   - a. Do you have coverage for routine care?
   - b. Are there higher copayments?
   - c. Is there prescription coverage?
   - d. Are there excluded activities or geographic areas?
   - e. Obtain additional coverage if needed.
5. Check to make sure you can bring your medication abroad. If you can, pack enough medication to last for your entire stay. Not all medications are available in every country.
6. Familiarize yourself with political, health, crime, and other safety-related conditions prevailing in any country and specific locations within country that you will be visiting. In addition to UHC Global Travel Assistance and the U.S. State Department, other resources include:
   - a. Study Abroad Safety Handbook produced by the Center for Global Education
   - b. Resources and advice on cultures
   - c. Association for Safe International Road Travel (Contact the Office of Risk Management if you wish to obtain a country specific road travel report)

Attend program pre-departure orientation.

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8. Be familiar with the University’s policies and procedures regarding conduct and travel.
9. Register Your Travel (http://world.yale.edu/services)
10. Provide emergency contact information to, and leave a copy of your passport/visa with the Office of International Medical Student Education.
11. Leave a copy of your itinerary with your family.
12. Print out your Yale UHC Global ID card with information on what to do in an emergency (http://ogc.yale.edu/UHCGlobal_Program). Keep your UHC Global ID card in your wallet or passport in the event of an emergency.

PREPARATION FOR GLOBAL HEALTH EXPERIENCES

Before leaving on your trip abroad, you should visit the Yale and the World website which provides excellent resources to help you plan your trip. The website address for individual travelers is: http://world.yale.edu/individual-travel

Before leaving on your trip abroad, you should:

1. Check your passport. Will it expire soon and need to be renewed (http://travel.state.gov/content/passports/english/passports/renew.html)?
   - If you do not have a passport, apply now (there may be long waits for U.S. passports).
2. Check the visa requirements for each country you are visiting to see if you need a visa to enter that country. http://cibtvisas.com/index.php?login=49634 or http://travel.state.gov/content/passports/english/passports/renew.html
3. Make an appointment with the Travel Health Clinic at Yale HEALTH, 203-432-0093. The Clinic provides pre-travel care including consultation, education, vaccination, travel medications, and, if necessary, referrals.
4. Understand any changes in your health insurance coverage while you are abroad.
   - a. Do you have coverage for routine care?
   - b. Are there higher copayments?
   - c. Is there prescription coverage?
   - d. Are there excluded activities or geographic areas?
   - e. Obtain additional coverage if needed.
5. Check to make sure you can bring your medication abroad. If you can, pack enough medication to last for your entire stay. Not all medications are available in every country.
6. Familiarize yourself with political, health, crime, and other safety-related conditions prevailing in any country and specific locations within country that you will be visiting. In addition to UHC Global Travel Assistance and the U.S. State Department, other resources include:
   - a. Study Abroad Safety Handbook produced by the Center for Global Education
   - b. Resources and advice on cultures
   - c. Association for Safe International Road Travel (Contact the Office of Risk Management if you wish to obtain a country specific road travel report)

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10. Provide emergency contact information to, and leave a copy of your passport/visa with the Office of International Medical Student Education.
11. Leave a copy of your itinerary with your family.
12. Print out your Yale UHC Global ID card with information on what to do in an emergency (http://ogc.yale.edu/UHCGlobal_Program). Keep your UHC Global ID card in your wallet or passport in the event of an emergency.
14. Carry a cell phone that you know will work at your destination(s) or at least a pre-paid phone card.

Upon Arrival in your Host Country, you should:
1. Attend any orientation upon arrival in country.
2. Register with the local U.S. Embassy or consular service.
3. Stay in regular contact with advisor, colleagues, friends.

emergency. Fill in your specific contact information on the bottom of the card.

Upon Arrival in your Host Country, you should:
1. Attend any orientation upon arrival in country.
2. Register with the local U.S. Embassy or consular service.
3. Stay in regular contact with advisor, colleagues, friends.
The Office of International Medical Student Education supports a very active Visiting Student Elective Program (VSEP) for students from other countries and other schools to come to Yale for clinical electives. The program currently receives approximately 500 applications and accepts about 125 international students into the elective program each year.

International students have come primarily from Europe and from South Asia. We are hoping to attract more applications from students in Africa and Latin America. Overall, students from over 50 foreign countries have participated in the VSEP in the last 5 years. US citizens attending an international school are not eligible for the VSEP.

Opportunities exist for Yale students to help welcome and mentor international medical students. Please contact the Office of International Medical Student Education if you are interested. Students from the following countries have participated in the VSEP during the past three years: