

WOMEN'S, ADOLESCENTS' AND CHILDREN'S HEALTH

Our Global Center for Integrated Health of Women, Adolescents and Children (Global WACh) is harnessing a lifecycle approach to address health at each stage, from adolescence through pregnancy and birth, to the critical first 1,000 days of life.

Using this framework and recognizing the relationships between the stages, our researchers are developing effective interventions that prevent and treat health issues at critical moments. One of the signature 2015 projects, Mobile WACh, is an example of the highly interdisciplinary and innovative Global WACh projects.

"Mobile WACh" is connecting mothers in rural Kenya with health care providers via two-way texting before and after giving birth, providing nearly immediate advice and consult. Initial results show women who are receiving messages and able to text with nurses experience fewer infant deaths and more of them are using family planning, compared with those who only received messages or were in the control group. This exciting project is a partnership between global health, obstetrics and gynecology, and computer



MENTAL HEALTH

Our Global Mental Health Program has grown to include six University Departments that are partnering to focus on prevention, and improving care and access for people around the world. By using creative approaches, such as task sharing where non-mental health workers learn how to do assessments and provide care, UW researchers are finding scalable solutions. Target populations for these projects span across the globe and include school-age children in Malawi, people living with diabetes in India, and political conflict survivors in Iraq, Tanzania, and Kenya.

To help survivors of sexual violence in the Democratic Republic of Congo, Adjunct Professor Debra Kaysen, worked with colleagues from Johns Hopkins University to adapt a treatment called cognitive processing therapy – which teaches people "the skill of thinking differently about your thinking," she says. "It's a little like doing yoga for your brain." After six months, only 9% of those who went through the group therapy still experienced depression, anxiety, or post-traumatic stress syndrome, compared to 42% in the control group, whose participants received individual support. The therapy was so effective in the DRC it prompted one counselor to tell Kaysen: "When I first saw these women they were ashamed. They couldn't lift their heads up. Now, they glow." Based on these successes Kaysen and colleagues are now working to scale up this treatment throughout in DRC's North and South Kivu areas.



RESEARCH: FINDING NEW SOLUTIONS

UNIVERSITY OF WASHINGTON: A LEADER IN GLOBAL HEALTH

- for Medical Schools for primary care U.S. News and World Reports
- for World's Most Innovative Universities
- for Achievements in Scientific Research National Taiwan University Ranking of Scientific Papers
- for Public Health graduate schools U.S. News and World Reports
- for Clinical Medicine globally U.S. News and World Reports
- for Social Sciences and Public Health globally U.S. News and World Reports
- for Medical Schools for research U.S. News and World Reports

HIV

The University of Washington continues to be an internationallyrespected leader in HIV research, both in terms of developing new approaches to HIV prevention and implementing research findings.

The International Clinical Research Center, led by Professors Connie Celum and Jared Baeten, spearheaded research through the Partners Demonstration Project in Kenya and Uganda showing near elimination of HIV transmission through delivery of pre-exposure prophylaxis (PrEP) and HIV treatment for serodiscordant couples, in which only one person is HIV positive. PrEP is a daily pill prescribed to people who are at high risk of getting HIV. These findings were key to the 2015 WHO recommendation of PrEP as a routine part of global HIV prevention standards. ICRC's pivotal study, Partners PrEP, also contributed to the U.S. Food and Drug Administration's approval of PrEP for HIV prevention in 2012.



DATA FOR DECISION MAKING

1.5 million lives per year in low- and middle-income countries could be saved by improving access to **surgical care**, according to recent findings by the **Disease Control Priorities Network**. These findings are part of the first volume of the third edition of *Disease Control Priorities (DCP3)*, Essential Surgery (published in March 2015), which identified 44 essential and feasible surgical procedures that should be available in low resource settings. Professors Charlie Mock and Dean Jamison were editors and other faculty contributors included Joseph Babigumira, Hideki Higashi, Nicholas Kassebaum, Carol Levin, Andy Stergachis, and Theo Vos.

A second DCP3 volume on **Cancer**, a major cause of premature deaths in low- and middle-income countries, was published in November 2015. The authors found that the most cost-effective interventions to combat cancer are excise taxes on tobacco and hepatitis B vaccination. The volume also proposes a DCP3 essential package of cost-effective and feasible cancer interventions. If implemented, it would provide relief for people suffering from cancer, especially the poor who currently have access to few or no services to respond to a cancer diagnosis. Professor Ben Anderson, Clinical Associate Professor Carol Levin, and Professor Theo Vos contributed to this volume. Disease Control Priorities Network is set to release an additional seven volumes on a variety of global health topics in 2016.



6,185 PEOPLE IN 40 COUNTRIES

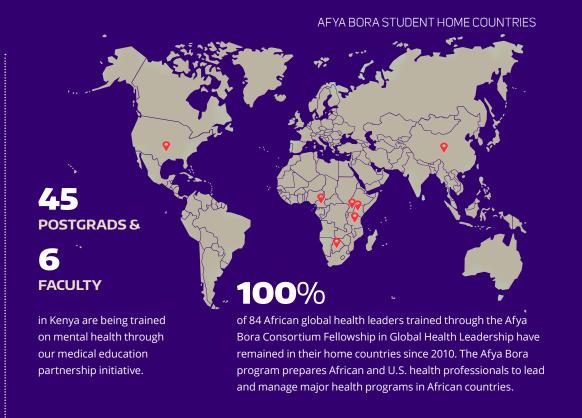
took courses from our e-learning program including Clinical Management of HIV, Intro to Epidemiology, and Leadership and Management in Health.





trained through I-TECH's innovative laboratory initiatives to strengthen evidence-based clinical practice and public health response in Cambodia and Lao PDR.







90 staff trained in climate change adaptation and risk management in Guam, Japan, South Africa, and Thailand through the Center for Health and the Global Environment (CHanGE), led by Professor Kristie Ebi.



CAPACITY BUILDING & SERVICE:

BUILDING STRONG HEALTH SYSTEMS



The Pharmacy Assistant Training Program graduated its first cohort of 20 students in Malawi in June as part of a project of the Global Medicines Program and Malawi Ministry of Health that will support staffing of up to 650 rural health centers. The inaugural cohort will eventually be joined by an additional 148 assistants, who will complete this new, visionary program. Students are trained to dispense life-saving medications and provide patients with essential advice. They also gain the skills to effectively manage inventory to ensure a well-functioning supply chain. Initial results showed an 80% reduction in clinician time spent on logistics in health facilities with Pharmacy Assistant students, allowing health workers to devote more time to patient care.

Assistant Professor Pamela Kohler is leading a new effort to partner UW nurses with Kenyan graduate nursing students. The new partnership is being developed between the UW Schools of Nursing and Public Health, the University of Nairobi, Jomo Kenyatta University of Agriculture and Technology, and Naivasha District Hospital. The program aims to provide UW nursing students with multidisciplinary training, working alongside medical residents and Kenyan nurses. "In resource-limited settings, nurses are about 80 to 90 percent of the healthcare workforce," Kohler says.

42 local Public Health fellows in Mozambigue will be trained through a new Health Alliance International fellowship focused on strengthening the capacity of health systems to make data-based decisions.

International Training & Education Center for Health (I-TECH)'s Training System Monitoring and Reporting Tool (TrainSMART) is a web-based tool that supports improved planning, analysis, decisionmaking, coordination, and reporting related to human resources for health care. As of 2015, TrainSMART tracks trainings for more than a quarter of a million physicians, nurses, and community health care workers in nearly 72,000 facilities worldwide



BOOSTING LOCAL HEALTH SYSTEMS

Health Alliance International (HAI), a center in the Department, works to strengthen government primary health care services and foster social, economic and health equity for all. Here are some accomplishments from their work in 2015:



868,850

PEOPLE RECEIVED HIV TESTING AND COUNSELING through the ministry of health in Côte d'Ivoire.

44% INCREASE IN BABIES DELIVERED AT MEDICAL FACILITIES after the launch of the Liga Inan, the Mobile Moms program connecting midwives and expectant mothers in Timor-Leste.





26,000 PATIENTS in central Mozambique received rapid, highly sensitive tuberculosis testing as part of a collaboration between the Ministry of Health.

IMPLEMENTATION SCIENCE

CLOSING THE GAP BETWEEN WHAT WE KNOW AND WHAT WE DO

Although there is clear evidence that we can prevent mother-to-child transmission of HIV when HIV+ women receive preventive care and treatment, this research often doesn't translate into on-the-ground results. Associate Professor Kenneth Sherr, working with colleagues at the Network for AIDS Researchers of Eastern and Southern Africa and Health Alliance International, developed and tested an approach to help clinics engage and maintain HIV+ women in HIV care in Côte d'Ivoire, Kenya, and Mozambique. These user-friendly tools support front-line health professionals to identify gaps and prioritize opportunities to prevent new HIV infections and were associated with three to tenfold improvements in retaining mothers in HIV care. Based on these successes, Sherr and colleagues are seeking support to expand the intervention to become a routine practice in all three countries.



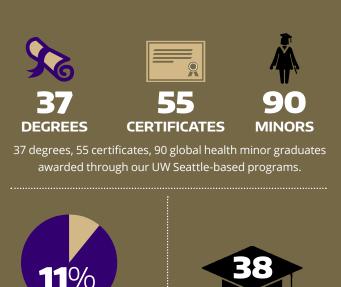












90 Global Health

Minor students.



EDUCATION: DEVELOPING THE NEXT GENERAL OF GLOBAL HEALTH LEADERS

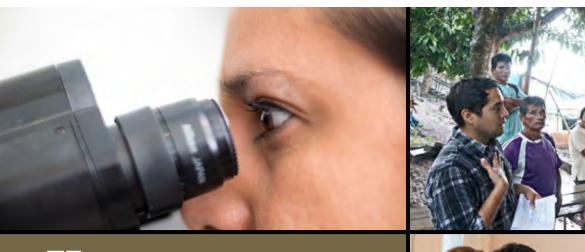
OF APPLICANTS

were admitted into

our highly competitive

PhD programs.

DEVELOPING THE NEXT GENERATION



RESEARCH ASSISTANTS throughout the Department received training, tuition support,

RESEARCH ASSISTANTS

in the Strategic Analysis, Research & Training (START) Center were trained in leadership, project management, written and oral communication, and analysis through the START Center's innovative mentorship model that provides high-quality analysis and research support to public health organizations.



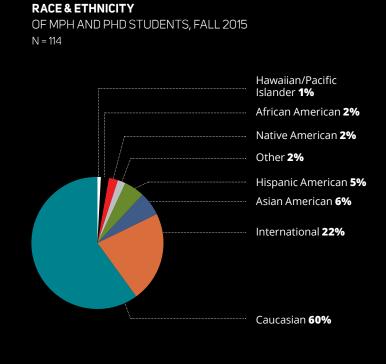
FRED HUTCHINSON CANCER RESEARCH CENTER. ABOVE: GLOBAL HEALTH CERTIFICATE STUDENT JORGE

"COCO" ALARCON IN A FLOATING SLUM IN IQUITOS, PERU. BOTTOM: MPH STUDENTS DURING THEIR

WEEKLY WORKSHOP.

of our MPH and PhD students are from 22% outside the United States. The top three regions of origin are 45% ASIA **39% AFRICA** 10% SOUTH & CENTRAL AMERICA, CARIBBEAN 54% of MPH and PhD students are female.

STUDENT DIVERSITY



Note: Does not include approximately 30 students who are on leave, doing study abroad, or other fellowship programs



Farah Mohamed (MPH '16, MSW '16) LEADERSHIP, POLICY & MANAGEMENT AND CONCURRENT MSW STUDENT

Farah was born in Kismayo, Somalia, but was forced to flee to Kenya as a child to escape the violent conflict that was affecting his home country. He finished secondary school in the Dadaab refugee camp in Kenya. After secondary school, he returned to Somalia and worked with World Vision International to implement various programs focused on women and children affected by poor health, malnutrition, birth complications and other preventable diseases. Farah is currently a fellow at the Global Studies Center, University of Washington, and also works with Health Alliance International (HAI), a Center of UW Department of Global Health, as an advanced

After completing his MPH and MSW, he hopes to play a leadership role in strengthening the fragile health care system in Somalia. He is also interested in working with refugee and immigrant populations in Seattle to improve their health outcomes and bridge gaps that may exist between the community and service providers.

"This program has enhanced my passion for doing global health work and has provided me with key leadership skills so I can further develop as a global citizen able to look at issues in a systematic way through a social justice lens."



PHD IN PATHOBIOLOGY

Andreia Costa, 5th Year PhD student DRUG AND VACCINE DEVELOPMENT

Andreia was born in Portugal and raised in New Jersey. She attended Rutgers University and graduated with a BA in Biology. After graduation she moved to Dublin, Ireland where she worked as a research assistant in a neuropsychiatric genetics lab at the Institute of Molecular Medicine. From there she moved back to the US for a two year Intramural Training Fellowship at the NIH's Vaccine Research Center (VRC). During her time at the VRC she worked on the development of new vector-based vaccines against HIV. There, she developed a strong interest in the interactions between host and pathogen, in particular, the adaptive immune response to viral infection. With this new-found interest she decided to apply to the Pathobiology program which offered her the opportunity to explore research in both basic and translational science within the framework of pathogens of global health importance. Andreia joined the Lund lab where she is working on characterizing the role of regulatory T cells in neurotropic viral infections with an emphasis on mosquitoborne West Nile virus.

"The Pathobiology program, and the UW more broadly, have provided me with an environment that embodies creative exploration and collaborative discovery. I made the right decision in choosing this program and would not hesitate to make the same choice if I had to do it over again."



OUR STUDENTS: SHAPING THE FUTURE OF GLOBAL HEALTH



UNDERGRADUATE MINOR

Nicole Advani, Honors Program (BA, '15)

MAJOR IN ANTHROPOLOGY AND MINOR IN GLOBAL HEALTH

A west coast native who is passionate about changing the world, Nicole has made the most of her time at UW. Nicole is involved in numerous clubs across campus including Partners in Health Engage, Undergraduate Student Public Health Association, and the Global Health Undergraduate Leadership Committee. She also worked at the Global Health Resource Center as the Undergraduate Student Assistant, and interned at Health Alliance International and The Borgen Project, a Seattle-based advocacy group working to eliminate global poverty. She loves to travel and has been fortunate enough to visit over 25 different countries and live in two. She recently studied abroad in Switzerland for a global health and development policy program and had "the time of her life" learning and traveling to Morocco and around Europe. In her free time, she enjoys reading, eating, spending time with friends and family, and watching movies. After graduation she plans to start her career at PATH before continuing her education in global health.

"Global health is my passion and the minor in global health allowed me to develop my understanding of the complexities of the field, while preparing me to start pursuing my career goals."



PHD IN GLOBAL HEALTH: **METRICS & IMPLEMENTATION SCIENCE**

David E Phillips, 4th Year PhD student

METRICS

David is a native Seattleite with a Bachelor of Science degree in psychology from the University of Washington. With experience in data analysis, and education in statistics and study design, he hopes to apply quantitative methods to improve public health policies and interventions with a focus on population-level health and equity, particularly child health. David is a contributor to the Global Burden of Disease study as well as research to improve vital statistics worldwide. In his free time he enjoys hiking, traveling and exploring the Pacific Northwest. His current work is with the Institute for Health Metrics and Evaluation (IHME)'s Gavi Full Country Evaluations project, exploring determinants of effective vaccine coverage.

"I chose the UW Global Health PhD program after working at IHME as a research staff member. I got to see the department from the inside, and what inspired me was how the faculty draw from all manner of disciplines to get the job done."

BUILDING STRONG HEALTH SYSTEMS



Bernice Dahn (MPH '05)

MINISTER OF HEALTH, LIBERIA

Bernice Dahn, a physician trained in public health, was named Minister of Health of Liberia in June 2015 during the ongoing Ebola crisis after serving as the Deputy Minister of Health and Chief Medical Officer of Liberia for eight years. She is now leading her country's efforts to restore routine health care services, which were severely affected by the outbreak of Ebola in 2014-2015 and to build a resilient health care delivery system. Since 2005, she has also served as an Assistant Professor for Public Health at the M. Dogliotti College of Medicine, University of Liberia.

"When I think about our days at the UW in 2001/2002 as Population Leadership Program (PLP) Fellows and then in 2004 as an MPH student, remembering that those years were the very difficult war years in my country, I can only reflect on how supportive you all were during my study years at the UW to ensure I completed successfully. It's hard to fully express how I feel about it, so I thought to just say thank you to all of you my UW family and a special gratitude for the PLP program that helped to reshape the way I work and made me what I am today."



EBOLA WARRIOR



Karin Huster (MPH '14)

HEALTH CONSULTANT IN GUINEA, OFFICE OF FOREIGN DISASTER ASSISTANCE, USAID

Karin Huster was a practicing Registered Nurse (RN) in the Emergency Department at Harborview Medical Center in Seattle when she joined the Global Health MPH program at UW. During the summer after her first MPH year, she traveled to Lebanon and worked with Syrian refugees in collaboration with the UN Refugee Agency (UNHCR). Since graduating Karin has traveled to Liberia, Sierra Leone and Guinea with Partners in Health and Doctors without Borders as part of the response to the Ebola crisis and post-Ebola recovery efforts in those countries. Her work has involved addressing many aspects of the response in all three countries — from clinical to programmatic to policy. When at home in Seattle, she mentors MPH students at the in the Department of Global Health, gives lectures, and also spends time writing research articles, or articles documenting her experiences.

"The University of Washington's MPH program was really the springboard I needed to launch my career in global health. Through engaging and rigorous courses, the program provided me with the foundation and tools to succeed at tackling the complex problems I am faced with in my day-to-day work. Instrumental in getting where I am today has been the department's faculty and leadership — exceptional and always approachable. In fact, they are family — always supportive of my work; a place I like to go back to for advice and great conversations."



OUR ALUMNI: FORGING NEW PATHS



INNOVATING VACCINES

Rhea Coler (PhD in Pathobiology '98)

VICE PRESIDENT, PRECLINICAL BIOLOGY INFECTIOUS DISEASE RESEARCH INSTITUTE

Rhea Coler is a respected cellular immunologist with extensive experience studying infectious disease immunology, particularly in relation to vaccine antigen and adjuvant development, and factors affecting innate and adaptive immune responses in experimental animal models of infectious disease pathogens. Her expertise in these infectious diseases has been obtained largely through interactions with researchers in her role as a scientist with positions held in the UK, the Caribbean, Tanzania, and the US. In her current role, Coler serves on the Executive Team of the Infectious Disease Research Institute and oversees the development of early and later preclinical stage vaccines that translate from the benchtop to clinical testing. Dr. Coler is also faculty for the Interdisciplinary Doctoral Program in Pathobiology at the University of Washington and she mentors future generations of researchers at undergraduate, graduate, postdoctoral, and scientist levels.

"I view my PhD at the University of Washington, as a training apprenticeship that helped me to launch my infectious disease research programs at IDRI, and to connect me to a global scientific community."



Θ

BETHEFIRST

Peter Cherutich

(PhD in Global Health: Implementation Science '15)

DEPUTY DIRECTOR OF MEDICAL SERVICES MINISTRY OF HEALTH, KENYA

In June, Peter Cherutich, who is a physician and the founding chairman of the Public Health Society of Kenya, became the first graduate from the Department's PhD Program in Global Health: Metrics and Implementation Science. While at UW, Dr. Cherutich received the School of Public Health's highest recognition for a graduating student, the prestigious Gilbert S. Omenn Award for Academic Excellence for his outstanding achievement within the public health community. Dr. Cherutich is at the center of international efforts to catalyze the adoption of novel HIV prevention approaches and technologies. He was at the forefront of efforts to scale-up male circumcision in Kenya for HIV prevention, and is currently carrying out an analysis on the impact of this scale-up on reductions in HIV incidence. As he returns to Kenya, Dr. Cherutich plans to continue to mentor and help develop future global health leaders and scientists in Africa.

"After my graduate studies I feel empowered, sharpened and reconfigured and I am ready to go into the world of global health to make a difference. I hope to support my country in order to be prepared for any challenge that comes along like the Ebola epidemic and other global emergencies. I also hope to participate in improving the health of our people and those of the African continent."







PROGRAM MANAGER KATE PFIZENMAIER IN ETHIOPIA WITH RELIGIOUS AND HEALTH LEADERS.

BOTTOM: GLOBAL HEALTH RESOURCE CENTER AND ACADEMICPROGRAMS STAFF AT THE 2015

CURRENT AND EMERGING FOCUS AREAS

Our faculty's current and emerging focus areas have a strong cross-cutting focus on social justice and equity and include:

- cardiovascular diseases;
- · family planning & reproductive health;
- global environmental change;
- · health economics;
- health metrics and evaluation;
- health system strengthening;
- implementation science;
- infectious diseases;
- injury and violence prevention;
- laboratory sciences;
- medicine safety;
- mental health; and
- · women's, adolescents' and children's health







incipal Investigator

a Pathobiology and Global Health faculty member, was awarded Rising Leader award at the Washington Global Health Alliance Pioneers in Global Health Dinner for his work in the field of adjuvant technology.

Robert Martin

was honored the American Society for Microbiology's Hologic Joseph Public Health Award for 2016.

OUR FACULTY AND STAFF: reaching across the university, beyond disciplines, and around the world









(Jared Baeten (far left)

GLOBAL HEALTHIES EVENT.

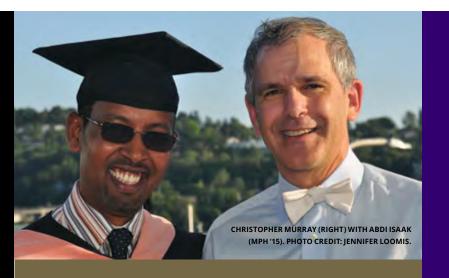
was appointed as Vice Chair of the Department. Baeten has been conducting HIV- and STD-related research since 1997 and is globally recognized for his leadership of clinical trials of interventions to prevent HIV transmission. In 2015 he was also appointed to the National Institutes of Health AIDS Clinical Studies & Epidemiology Study Section.

← Carey Farquhar (left)

joined the Department leadership team in anticipation of her role as Associate Chair of Education and Curriculum, beginning July 2016. Farquhar directs multiple international training programs and leads the global health pathway in the internal medicine residency program, teaches multiple courses, and conducts research on HIV prevention and correlates of HIV immunity.

Stephen Gloyd

has served as Associate Chair for Education and Curriculum since the Department was formed in 2007 and will step down in July, 2016. Since joining the UW faculty 30 years ago, he has worked tirelessly to build a strong global health education program, with a focus on social justice. He has played a major role in building the department's curriculum and will continue to lead the MPH program, partnerships in China, and the alumni initiative.



(†) Christopher Murray

The Institute for Health Metrics and Evaluation, led by Professor Christopher Murray, was honored as the Outstanding Global Health Organization at the 2015 Washington Global Health Alliance Pioneers in Global Health Awards dinner.

In Epic Measures, published in May 2015, health journalist Jeremy Smith recounts Professor Christopher Murray's struggle to index the global burden of disease—and the political obstacles he encountered in publishing and distributing his findings

Elizabeth Bukusi

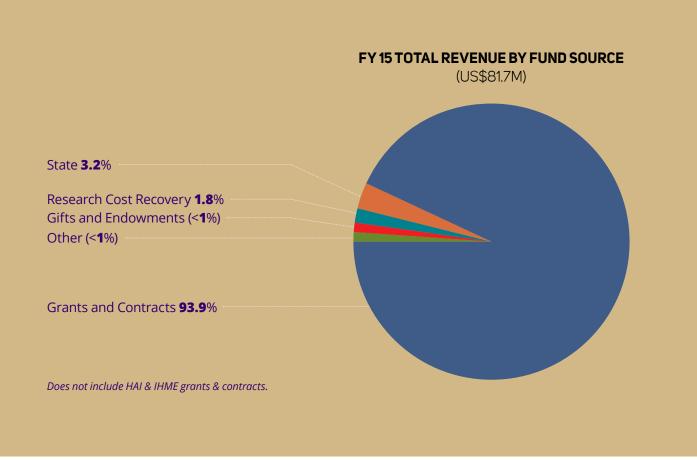
was unanimously nominated for a special award for African researchers at the 2015 Biomedical HIV Prevention Forum in Harare, Zimbabwe. The award recognizes her contributions in the development of female-initiated methods of HIV prevention such as pre-exposure prophylaxis (PrEP), microbicides and multiple prevention technologies.

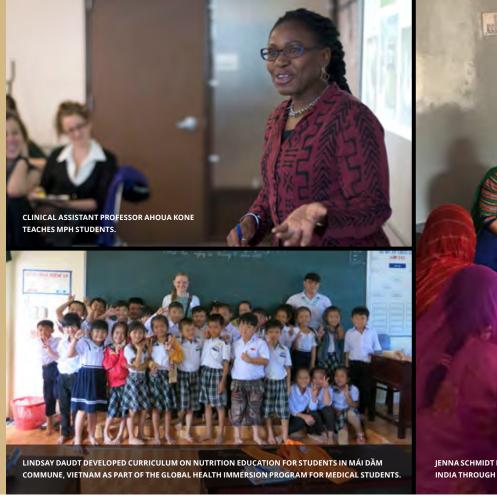


a pioneer of distance learning at the University of Washington, was awarded the UW's 2015 Distinguished Contributions to Lifelong Learning.





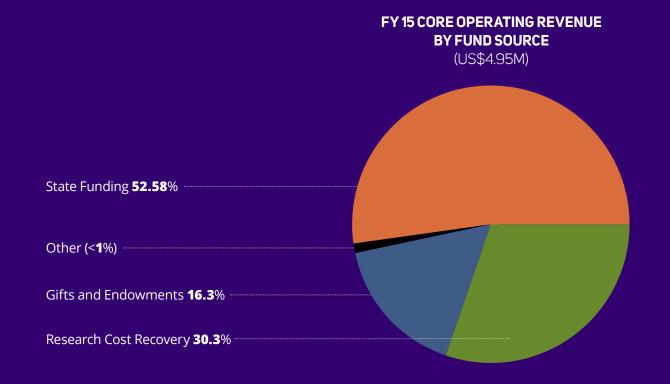


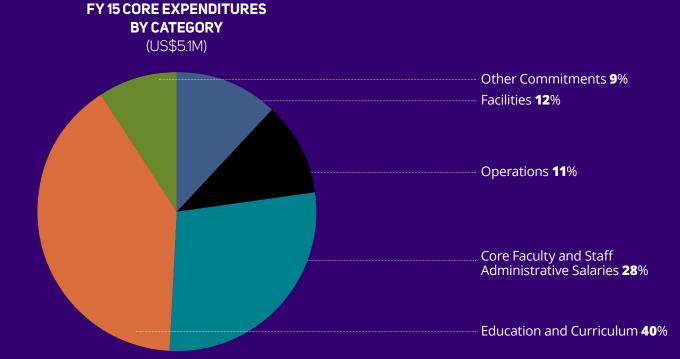




OUR FINANCES: SUPPORTING OUR MISSION TO IMPROVE HEALTH FOR ALL

CORE REVENUE AND EXPENDITURES ARE THE COSTS ASSOCIATED WITH RUNNING THE DEPARTMENT INCLUDING ACADEMIC PROGRAMS, AND EXCLUDING GRANT-RELATED WORK AND THE WORK OF OUR CENTERS AND PROGRAMS.







A WOMAN WALKS THROUGH THE SACRED VALLEY IN PERU. PHOTO CREDIT: TANYA SHAH, MEDICAL STUDENT, GLOBAL HEALTH IMMERSION PROGRAM.

DEPARTMENT OF GLOBAL HEALTH

DEPARTMENT LEADERSHIP:

Judith Wasserheit, MD, MPH William H. Foege Endowed Chair

Jared Baeten, MD, PhD Vice Chair

Stephen Gloyd, MD, MPH Associate Chair for Education and Curriculum

King Holmes, MD, PhD Director of Research & Faculty Development

Sally Weatherford, PhD Director of Finance and Administration

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