

UNIVERSITY of WASHINGTON

# GLOBAL MEDICINES PROGRAM

RESEARCH • TRAINING • POLICY

## Global Medicines Program DGH External Advisory Board Meeting

Andy Stergachis, PhD, Director  
Professor of Epidemiology & Global Health  
Adjunct Professor of Pharmacy & Health Services

[stergach@uw.edu](mailto:stergach@uw.edu)

[www.globalmedicines.org](http://www.globalmedicines.org)



DEPARTMENT OF GLOBAL HEALTH  
UNIVERSITY of WASHINGTON

December 1, 2011



SCHOOL OF PHARMACY  
UNIVERSITY of WASHINGTON

## **Mission:**

Improve the use, safety, quality, risk-benefit profile, cost-effectiveness, and affordability of medicines in resource-poor countries.

## **Objectives:**

1. Generate and disseminate new methods and knowledge on global medicines safety and value.
2. Teach and mentor graduate and professional students and practitioners in global medicines safety and value.
3. Strengthen pharmaceutical systems through research, capacity building, and global outreach.

# Program Metrics

1. Recruit a senior fellow, junior faculty member, and research coordinator and establish the Program's infrastructure.
2. Prepare and submit at least 4 manuscripts for publication and 3 applications for funding support annually.
3. Engage with key global stakeholders to offer 2 in-country training workshops/programs annually.
4. Update, expand, & offer interdisciplinary global medicines courses.
5. Establish inter- and intra-Departmental & School linkages and other key affiliations.

# People: Global Medicines Program



Andy Stergachis, PhD  
Director  
Professor



Lou Garrison, PhD  
Co-Director  
Professor



Joseph Babigumira,  
MBChB, MS, PhD  
Assistant Professor



Dean Jamison, PhD  
Professor



Laura Sangaré, PhD, MPH  
Senior Research Fellow



Becky Bartlein, MPH  
Research Coordinator

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## Affiliated Faculty To-Date

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Peggy Odegard, PharmD	Professor & Chair, Dept Pharmacy
Don Downing, BPharm	Clinical Professor of Pharmacy
Thomas Brewer, MD	Bill & Melinda Gates Foundation

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## RECENT NEWS

[UW Global Medicines Program a core partner to MSH's new Award from USAID](#)

[Don Downing and UW pharmacy students lead medical brigade in Honduras](#)

[Global Medicines Program Participates in Third International Conference for Improving Use of Medicines \(ICIUM\)](#)

[Working to make vaccines safer](#)



### UW Global Medicines Program a core partner to MSH's new Award from USAID

The UW Global Medicines Program is a core partner to a newly awarded cooperative agreement to Management Sciences for Health (MSH) by the US Agency for International Development (USAID). This a five-year \$197.9 million Cooperative Agreement for the Systems for Improved Access to Pharmaceuticals and Services (SIAPS) Program follows the current Strengthening Pharmaceutical Systems (SPS) [...]



### Vietnam: Strengthening Pharmaceutical Systems Technical Assistance and Training Activity

Andy Stergachis and Jude Nwokike of Management Sciences for Health (MSH) participated in a training workshop in Hanoi from September 14-15, 2011 on sentinel site-based active surveillance pharmacovigilance for antiretroviral therapy (ART) in Vietnam. Topics covered in the workshop included an introduction to the activity, review of the protocol, systems and stakeholders roles and responsibilities, [...]



### Global Medicines Program Participates in Third International Conference for Improving Use of Medicines (ICIUM)

The Third International Conference for Improving Use of Medicines (ICIUM) will be held

### FDA MEDWATCH NEWSFEED

- October 2011
- ShoulderFlex Massager by King International: Safety Communication - Risk of Strangulation
- Vinality Max: Recall - Undeclared Drug Ingredient
- Mizuho OSI Modular Table Systems: Class I Recall - Reports of Patient Injury
- Trilipix (fenofibric acid): Drug Safety Communication - Label Change

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### MAKE A GIFT

To make a gift to support the work of the Global Medicines Program, please click the "Donate" link on the menu or visit:

# Major Activities

1. Strengthening Pharmaceutical Systems-MSH via USAID
2. Pharmacovigilance via BMGF:
  - Strategy & Methods Development
  - Malaria in Pregnancy Consortium
3. Health Technology Assessment in Developing Countries and Emerging Markets
4. Cost-Effectiveness Analysis of Vaccines—Measles, Influenza, Pneumococcal

Stergachis et al. *Malaria Journal* 2010, 9:148  
http://www.malariajournal.com/content/9/1/148



**RESEARCH** Open Access

**A situational analysis of pharmacovigilance plans in the Global Fund Malaria and U.S. President's Malaria Initiative proposals**

Andy Stergachis<sup>1,2</sup>, Rebecca JK Bartlein<sup>1</sup>, Alexander Dodoo<sup>3</sup>, Jude Nwokike<sup>4</sup> and S Patrick Kachur<sup>5</sup>

OPEN ACCESS Freely available online PLOS MEDICINE

**Policy Forum**

**Global Pharmacovigilance for Antiretroviral Drugs: Overcoming Contrasting Priorities**

Nyasha Bakare<sup>1\*</sup>, Ivor Ralph Edwards<sup>2</sup>, Andy Stergachis<sup>3</sup>, Shanthi Pal<sup>4</sup>, Charles B. Holmes<sup>5</sup>, Marie Lindquist<sup>6</sup>, Chris Duncombe<sup>7</sup>, Alex Dodoo<sup>8</sup>, Joel Novendstern<sup>9</sup>, Jude Nwokike<sup>10</sup>, Ricardo Kuchenbecker<sup>11</sup>, Judith A. Aberg<sup>12</sup>, Veronica Miller<sup>13</sup>, Jur Strobos<sup>13\*</sup>

\* Forum for Collaborative HIV Research and Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, United States of America, 2 WHO Collaborating Centre for International Drug Quality Assurance and Safety

**BMC Health Services Research** BioMed Central

Research article Open Access

**Potential impact of task-shifting on costs of antiretroviral therapy and physician supply in Uganda**

Joseph B Babigumira<sup>\*1</sup>, Barbara Castelnuovo<sup>2</sup>, Mohammed Lamorde<sup>2</sup>, Andrew Kambugu<sup>2</sup>, Andy Stergachis<sup>3</sup>, Philippa Easterbrook<sup>2</sup> and Louis P Garrison<sup>1</sup>

Sangaré et al. *Malaria Journal* 2011, 10:152  
http://www.malariajournal.com/content/10/1/152



**RESEARCH** Open Access

**Patterns of anti-malarial drug treatment among pregnant women in Uganda**

Laura R Sangaré<sup>1\*</sup>, Noel S Weiss<sup>2</sup>, Paula E Brentlinger<sup>1</sup>, Barbra A Richardson<sup>3</sup>, Sarah G Staedke<sup>4,5</sup>, Mpungu S Kiwawa<sup>6</sup> and Andy Stergachis<sup>2</sup>

**Using Cost-Effectiveness Analysis to Support Research and Development Portfolio Prioritization for Product Innovations in Measles Vaccination**

Louis P. Garrison Jr,<sup>1</sup> Chris T. Bauch,<sup>2</sup> Brian W. Bresnahan,<sup>1</sup> Tom K. Hazlet,<sup>1</sup> Srikanth Kadiyala,<sup>1</sup> and David L. Veenstra<sup>1</sup>

<sup>1</sup>Pharmaceutical Outcomes Research and Policy Program, Department of Pharmacy, University of Washington, Seattle; and <sup>2</sup>Department of Mathematics and Statistics, University of Guelph, Ontario, Canada

# Progress To-Date – Examples

Producing Knowledge	Transmitting and Applying Knowledge	
20+ GMP-Related Manuscripts	4 PhDs awarded: Epidemiology & Pharmacy	<p>Global Pharmacovigilance Conference, 2010, Nairobi</p> <p>International Society for Pharmacovigilance, Ghana, 2010</p> <p>ICIUM Conference, Antalya, Turkey, 2011</p>
30+ Global Medicines Presentations	<p>“Global Health Pharmacy: Medicines, Practice, and Policy”</p> <p>Four (4) UW Courses</p>	In-Country Training Workshops & Technical Assistance: Namibia, Vietnam, Ethiopia, India
<p>Grants Awarded:</p> <p>“Safety of Antimalarial Drug Use During Early Pregnancy (BMGF/MiPc)”</p> <p>“Uganda Abortion Study, (IIE)/William and Flora Hewlett Foundation”</p> <p>“Systems for Improved Access to Pharmaceuticals and Services (USAID)”</p> <p>“Assist with Global Fund Applications for Rx Surveillance”</p>	<p>UNITID Fellowship Program</p> <p>Leadership for Health Economics – Distance Learning</p> <p>Cost and Outcomes in Health and Medicine Course</p>	<p>Affiliation in process with UNAM Pharmacy Degree Program</p> <p>Global Vaccine Safety Blueprint Meeting, WHO, Geneva, 2011</p> <p>IOM Committee on Strengthening Core Elements of Regulatory Systems in Developing Countries</p>

# Intra-Departmental Linkages

- **ICRC** – Planning for results of trials
  - Acyclovir guidelines, procurement, access in SSA
  - PrEP pharmacovigilance concept paper
- **I-TECH** – Medication management/Systems strengthening
  - Collaborations where there's geographical overlap, UNAM
  - HEAL-TB proposal
- **IHME** – Population-based medication use assessment
  - Participation in “A Novel Integrated Multi-source Surveillance System for Tracking Health Disparities”
- **KRP** – Joint mentorship of postdoctoral fellow
- **GBD** – Cost-effectiveness of RDT for malaria



# What Have We Learned?

- **Strengths:**
  - Co-directors have well-established linkages within UW and with many relevant external organizations
  - Program initiated with a combination of DGH initiative funding and external grant and contract support
  - Demonstrated novel and efficient approaches to pharmacovigilance in LMIC
- **Weaknesses:**
  - Need to attract a larger core of interdisciplinary faculty with an interest in collaboration on global medicines issues
  - Limited resources
  - Strengthen metrics, especially impact

# Future Directions

1. Hold a forum/meeting of faculty interested in affiliating with GMP
2. Establish an advisory committee
3. Plan for sustainability
4. Increase dissemination efforts
5. Formalize Program affiliations
6. Postmarketing surveillance with public-private partnerships
7. Geographical expansion in conjunction with DGH?

# Vision Statement

- The “Center for Global Medicines” is a leader in research and training that promotes global access to safe and cost-effective medicines and pharmacy services to achieve improved and sustainable health and systems impact.



## ORIGINAL RESEARCH ARTICLE

Drug Saf 2010; 33 (8): 669-703  
0114-5916/10/0008-0669/\$49.00/0

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### Pharmacovigilance Activities in 55 Low- and Middle-Income Countries A Questionnaire-Based Analysis

Sten Olsson,<sup>1</sup> Shanthi N. Pal,<sup>2</sup> Andy Stergachis<sup>3</sup> and Mary Couper<sup>2</sup>

<sup>1</sup> WHO Collaborating Centre for International Drug Monitoring, Uppsala, Sweden

<sup>2</sup> Quality Assurance and Safety of Medicines, World Health Organization, Geneva, Switzerland

<sup>3</sup> Departments of Epidemiology and Global Health, School of Public Health, University of Washington, Seattle, Washington, USA

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# Key Questions

1. What important medicines-related global public health problems are we missing in our current and planned activities and direction?
2. What suggestions do you have to strengthen the dissemination and impact of our program activities?

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