HST.939 Designing and Sustaining Technology Innovation for Global Health Practice
Spring 2008

HST 939 Project List

	Title	Contact Person	Organization	Country	Area of Interest	Description
1.	Use of Algorithms for Training and Practice of Mid-level Health Care Workers	Cliff Tabin	Nick Simons Institute	Nepal	Medical Informatics, Medical School development	We are looking at the use of clinical algorithms as part of the teaching / learning process. Algorithms have been reportedly used to train lower and mid level health care workers in many parts of the developing world. In Nepal, the use of algorithms is very new and has only been used in a limited role.
2.	Design a clinical trial in a host country following FDA guidelines for inhalation devices.	Jose Gomez-Marquez	Aerovax	Open	Device manufacturing, vaccines	Our goal is to increase immunization yields in remote populations and post-disaster sites. Our inhalation platform has been able to replicate and exceed the performance of hospital based inhalation devices.
3.	Designing Methods for Collection of Field Research and Data Transfer in Resource Poor Settings	Ben Baumann	Akaza	Tanzania	Medical Informatics, Operations Research	OpenClinica is an open source software product for managing clinical research studies. Its open source nature of provides a unique level of flexibility and makes high-quality, enterprise-quality clinical software accessible to research organizations around the world.

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4.	Improving TB Adherence	Jose Gomez-Marquez, Elizabeth Gillenwater	X out TB	Nicaragua	Adherence, mobile devices, TB, surveillance	Develop a Product Development Strategy for the X out TB Program Using Country Appropriate Incentives. Our goal is to increase patient adherence to TB drug regimes. Our solution, X out TB, is a combination of customized incentives with a novel remote-monitoring program that both encourages and facilitates adherence.
5.	Rapid CD4 Business Plan	Uktan Demerci, Jeffrey Blander	BAMM Laboratories, Muhimbili National Hospital	Tanzania	Diagnostics, Microfluidics, HIV	Create a business plan and clinical study for the first time rollout of a rapid CD4 test for PLWHA
6.	NCD Strategy for Diabetes management	Jeffrey Blander, Dr. Rainer	Bienmoyo, Brigita Dispensary	Tanzania	Diabetes, NCD	Support the development of a cost effectiveness study comparing local disease management methods to conventional insulin regimen for type II diabetes management.
7.	Health Care Revolving Fund	Jeff Blander, Dr Kaushik	Bienmoyo/APHFTA	Tanzania	Microfinance, Public Private Partnerships	Support the development of a revolving fund to support the private hospital and faith based facilities organizations in Tanzania. These organizations are responsible for 54% or all health care in Tanzania.

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8. Female led franchising of sanitary napkins	Elizabeth Scharpf	Sustainable Health Ventures	Open	Women's Health, Social entrepreneurship	Sustainable Health Ventures (SHV) aims to unleash girls' economic potential by starting up female-run franchises that manufacture and distribute low priced, high-quality, and environmentally friendly sanitary towels for domestic and international consumption.
9. Strategies to Reduce Pollution from Charcoal Production in Egypt	Julia Nicole Tatum	N/A	Open	Clean Energy	Charcoal is one of the most important and commonly used fuel sources in the developing world. There is a great need to develop a charcoal production process which is less polluting than current methods but economically feasible.
10. Development of Global Health resource databank	Pam Frank	GlobalHealthMap.Org	Open	Academic Health Centers, Medical Experts	The Global Health Map (GHM) is a non profit 501c3 that helps internationally oriented US hospitals and clinicians to promote their global work, to fundraise for their projects and to come together as a community for the aggregation and dissemination of information and resources.

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11. Improving health systems for the homeless	James O'Connell	Partners, Health Care for the Homeless Initiative	USA	Homeless, Insurance, Emergency Medicine	Support the cost effectiveness and patient flow analysis of tailored medical services for the homeless to avoiding unnecessary use of emergency room admissions for routine care visits.
12. Rapid Tests for Breast Cancer Screening	Charles F. Streckfus	CCTS Proteomics Core UTHSC - Dental Branch	Open	Breast Cancer, Rapid Test	Develop global business plan for rapid test in developing world for screening breast cancer. The product is based upon protein-by-products secondary to cancer related oncogenes that are over or under expressed that appear in the saliva of breast cancer patients.
13. Mental Health Services for Rural Poor Women	Aldofina Regional Mental Health Coordiantor, Jeff Blander	Bienmoyo/MEHATA, Office of The Regional Medical Officer of Lindi	Tanzania	Mental Health	Support the integration of mental health in primary care in Lindi. Currently mental health services are not formally provided, yet the burden of illness and service need to considered to be over 5% of all clients in the region.
14. Cardiac Care Services for Mainland China	Anna Chodos	Unite for Health	China	Cardiology	To decrease CVD mortality and to create an approach to decreasing CVD risk factors that will be scalable, first in Chinese communities nationwide, and second to other developing countries facing similar obstacles to addressing CVD.
15. Health Care Access to Orphan Children	Dr. Issac, Jeffrey Blander	Bienmoyo/The Ambassadors	Tanzania	Orphans, Homeless, Social Services.	Establishing a sustainable association that will provide health care services to 55 Orphanages in Dar Es Salaam City.