

SEMI-ANNUAL RESEARCH REPORT July-December 2011

Project Name:	A pharmacokinetic Pharmacogeneti	c Study of HIV-positiv	ve Patients on Combined Anti-Retroviral		
	Therapy With Kaposi's Sarcoma Being Treated With Single Agent Oral Etoposide.				
Investigator(s):	R. M. Strother, P.J. Loehrer, N. Busakhala, E. Njiru				
Start Date:	3/31/2010	Project End	3/14/2012		
		Date:			
Site(s):	MTRH, Chulaimbo, Webuye Hospital, Kitale, Busia, Port Victoria				
Project	The study explores the influence of genetic variability in drug metabolizing and transport				
Description:	enzymes on the pharmacokinetic pa	·	•		
		n of Kaposi's Sarcoma	a and should have been on cART for at		
Undata	least 8 weeks prior to enrollment.				
Update:	The study has enrolled 22 males and 7 females totaling 29/30. These were all from Oncology				
	1	clinic sites with Chulaimbo having the highest number of 11, Busia 7, Kitale 4, MTRH 4 and Webuye 3. Challenges focus mainly on recruitment. Some patients come to the clinic while very			
			ss takes a minimum of 8 hours to collect		
	· ·	-	ents have problems with transport (fare)		
	when needed to come back to the o		into nave problems with transport (rare)		
Project Name:	A Phase I/II Dose-Finding Study of H				
	Cryptococcal Meningitis. A5225/HiF				
Investigator(s):	J. Sidle, A. M. Siika, K. Wools-Kalous				
Start Date:	5/18/2011	Project End	12/31/2012		
C:to/o).	AATOU	Date:			
Site(s):	MTRH		an akudu af kha aafaku kalamahiliku an d		
Project Description:	I		on study of the safety, tolerability, and		
Description.			of high-dose fluconazole alone for the		
	treatment of cryptococcal meningitis (CM) in HIV-infected participants. The study will proceed in two stages. In Stage 1, Dose Escalation, up to three induction doses of fluconazole will be				
	tested in sequentially enrolled cohorts. Stage 2, Dose Validation, will not open until the				
	maximum tolerated dose (MTD) of fluconazole has been identified in Stage 1. In Stage 2,				
	induction doses of fluconazole that are found to be safe in Stage 1 will be tested in				
	simultaneously enrolled cohorts. In each stage, participants will be randomized at entry into				
	Step 1. Over the course of the study, participants will register to subsequents steps (Steps 2-4)				
	based on their initial randomization and/or their response to treatment. The study steps are:				
	Step 1: Induction therapy with either high dose fluconazole or ampho B				
	• Step 2: Induction following early ampho B intolerance (only for participants randomized to				
	ampho B treatment in Step 1) (fluconazole at 400-800 mg daily)				
	Step 3: Consolidation therapy (f		• •		
11. 1.4.	Step 4: Maintenance therapy (fl		• •		
Update:	1	enrolled. Five into co	phort 1 (Fluconazole 1200mg) and 4 into		
	cohort 2 (Fluconazole 1600mg).				
Project Name:	A Population Based Study of Hypert	ension. Diabetes and	l Target Organ Damage in Western Kenya		
Investigator(s):	E. Velazquez, S. Kimaiyo, C. Akwana				
Start Date:	12/15/2011	Project End	12/3/2012		
		Date:			
Site(s):	Mosoriot				
Project	1 * * *		challenges facing the African continent		
Description:	and yet data on true community pro	• • •			
	1		pulations was said to be a rarity but this		
			style. Recent studies indicate that the		
	prevalence of hypertension and its	ciinically important o	utcomes is steadily increasing in SSA,		

	more in the urban compared to semi urban and rural communities. Similarly, the prevalence of diabetes mellitus is increasing and its presence augments the severity of renal and cardiac disease caused by hypertension. This study will be conducted in two phases. Phase one of the study will be a cross sectional study which will be conducted on persons aged 18yrs or older from Mutwot location, Kosirai division, to assess for hypertension and diabetes mellitus. In the second phase of the study those individuals who are newly diagnosed with hypertension will be assessed for target organ damage and compared to controls.		
Update:	This study has been approved by all IRBs. We are waiting for approval from the sponsor before recruitment commences.		
Project Name:	A Retrospective Analysis of Pregnancy Outcomes of HIV-infected Women Enrolled in the AMPATH Program		
Investigator(s):	A. Bell, E. Were, B. Musick, K. Lane, C. Shen, P. Akhaabi, J. Hogan, K. Wools-Kaloustian		
Start Date:	3/1/2006 Project End 3/31/2012 Date:		
Site(s):	All Sites		
Project	This is a retrospective analysis of pregnancy outcomes of HIV-infected women enrolled in the		
Description: Update:	 AMPATH program from January 2006 to March 2009. Per protocol, pregnant women with CD4 < 200 begin cART immediately and those with a CD4 ≥ 200 start at 28 weeks gestation. The pregnancy outcomes are being compared between women pregnant at program enrollment (BE) and those who became pregnant after enrollment (AE). The specific hypotheses include: 1. Women who are already enrolled in the AMPATH program at the time of pregnancy diagnosis are more likely to initiate ART sooner (at a lower gestational age) than those who are not in the program prior to pregnancy diagnosis. 2. Women who are already enrolled in AMPATH at the time of pregnancy diagnosis are less likely to give birth to an HIV-infected baby than those who are not enrolled in the program prior to pregnancy diagnosis. 3. Women who are already enrolled in AMPATH at the time of pregnancy diagnosis will have better retention and adherence rates than those who are not enrolled in the program prior to pregnancy diagnosis. 4. Women who are already enrolled in the AMPATH program will have a lower rate of stillbirth and infant loss than those who are not enrolled in the program prior to pregnancy diagnosis. The analysis is underway. The preliminary findings will be presented on January 10 at the 2nd 		
Project Name:	A Stage 2 Cognitive Behavioral Trial, Reduce Alcohol First in Kenya Intervention (RAFIKI)		
Investigator(s):	R. Papas, B. Gakinya, J. Sidle, J. Baliddawa, S. Maisto, S. Martino, K. Carroll, J. Hogan		
Start Date:	11/1/2011		
Site(s):	MTRH		
Project Description:	This study will determine whether a group cognitive-behavioral therapy intervention that demonstrates preliminary evidence of reducing alcohol use among HIV-infected outpatients in western Kenya is effective when compared against a group health education intervention in a large sample over a longer period of time. It will be delivered by paraprofessionals, individuals with limited formal education and little or no relevant professional experience. This approach is consistent with successful cost-effective models of service delivery in resource-limited settings in which paraprofessionals (e.g., clinical officers, traditional birth attendants and peer counselors) are trained.		
Update:	In November-December 2011, the project began start up activities in Kenya, including opening a research office, hiring counselors and RAs, beginning training and developing systems and standards of operation to be used during the study. Materials have been developed and RAs		

			Discussions to be completed in January
	2012 and February 2012. Recruitmen	nt for the trial will beg	gin in May or June 2012.
Project Name:	A5221/STRIDE 'A Strategy Study of in	mmediate versus Defe	erred Initiation of Antiretroviral
i rojoot rtaino.	A5221/STRIDE 'A Strategy Study of immediate versus Deferred Initiation of Antiretroviral Therapy for HIV infected persons Treated for TB with CD4<200 cells/mm3' Version 1.0 dated 14		
	March, 2009.		
Investigator(s):			
Start Date:	1/12/2009	Project End	8/10/2010
		Date:	
Site(s):	MTRH		
Project	A5221 is a randomized, open-label s		- ·
Description:	[within approximately 2 weeks after starting treatment for tuberculosis (TB)] versus deferred (8-12 weeks after start of TB treatment) initiation of antiretroviral therapy (ART) reduces mortality		
		•	TB. There will be two steps and two
		-	2 weeks after starting therapy for TB
			ter enrollment ('immediate' group; Arm
	A) or to have ART deferred ('deferred	•	
	enter into Step 2 8-12 weeks after st		
Update:	The study is closed to follow up and	data analysis is ongoir	ng. Publication: 1. Diane Havlir et
		for HIV-1 infection and	d TB' N Eng J Med 365: 16, October 20,
	2011, 1482-1491		
Project Name:	A5221/STRIDE 'A Strategy Study of in	mmodiato vorsus Dofo	prend Initiation of Antirotroviral
Froject Name.	= -		<200 cells/mm3' Version 1.0 dated 14
	March, 2009.	ated for 15 with CD4	200 cells/films version 1.0 dated 14
Investigator(s):	J. Sidle, A. M. Siika, F. Some		
Start Date:		Project End Date:	8/10/2011
Site(s):	MTRH		
Project	A5221 is a randomized, open-label s	tudy to determine wh	ether the strategy of immediate
Description:	[within approximately 2 weeks after starting treatment for tuberculosis (TB)] versus deferred (8- 12 weeks after start of TB treatment) initiation of antiretroviral therapy (ART) reduces mortality		
	and AIDS-defining events in participants being treated for TB. There will be two steps and two arms in this study. All participants will enter Step 1 within 2 weeks after starting therapy for TB		
	· · · · · · · · · · · · · · · · · · ·	•	ter enrollment ('immediate' group; Arm
	A) or to have ART deferred ('deferred	•	
	enter into Step 2 8-12 weeks after st		•
Update:	The study is closed to follow up and	• • • • • • • • • • • • • • • • • • • •	•
-	Publication: Diane Havlir et al; 'Timing of Antiretroviral Therapy for HIV-1 infection and TB' N Eng		
	J Med 365: 16, October 20, 2011, 14	82-1491	
Project Name:			a Program of Voluntary Home-Based
Investigator(s):	HIV Counseling and Testing in Western Kenya R. Vreeman, W. Nyandiko, P. Braitstein, M. Were, S. Wiehe		
Investigator(s): Start Date:	•	Project End	12/31/2012
Start Date.	1/1/2009	Date:	12/31/2012
Site(s):	Turbo, Burnt Forest, Webuye Hospita		1
Project	Analyses of rates of acceptance of pe		nd prevalence of pediatric HIV
Description:	determined through home-based co		
Update:	1	•	m Turbo and assessed which factors
	are associated with pediatric testing	uptake. These finding	gs were published in Journal of

	Acquired Immune Deficiency Syndro	omes in October of 202	10. Planning additional analyses with	
	data being collected prospectively on barriers to acceptance of pediatric testing in HCT and data			
	from Webuye and other sites to assess the variance in pediatric testing acceptance in HCT.			
Project Name:	Adherence to ART among HIV-infect	ed children in East Afr	rica	
Investigator(s):	R. Vreeman, S. Ayaya, W. Nyandiko,	B. Musick, C. Yiannou	tsos, D. Nash, S. Wiehe	
Start Date:	1/1/2011	Project End Date:	6/30/2012	
Site(s):	Sio Port, 8 IeDEA clinical sites in Ken	ya, Uganda and Tanza	nia	
Project Description:	The objective of this analysis was to describe pediatric ART adherence within the clinic sites that are part of the East Africa IeDEA consortium and to investigate factors associated with increased risk of ART nonadherence. This was a retrospective study from eight IeDEA clinical sites in Kenya, Uganda and Tanzania. Patients included were seen between 01/2002-01/2009, <13 years of age, HIV-infected, had initiated ART, and had at least one ART adherence measure.			
Update:	Among 3,308 children, 51.9% were male. Mean age at ART initiation was 5.4 years (SD 3.4). 88.2% of children had good mean adherence (greater than or equal to 90%), ranging from 75.7%-100% by site. Sites using pill counts to estimate adherence had the highest adherence rates. Describing adherence by time on ART, nonadherence was highest in the first 3 months on ART (11.3% nonadherence) and for after 12 months on ART (9.9-12.1% nonadherence). The abstract for this project was presented at three meetings: IeDEA global meeting (02/2011); 3rd International Workshop in Pediatric HIV in Rome, Italy (07/2011); and the International AIDS Society (07/2011). The manuscript is currently underway.			
Project Name:	Anticoagulation Project			
Investigator(s):	S. Pastakia, I. Manji, M. N. Ouma, R. Maina	Karwa, C. Akwanalo, (C. Saina, E. Schellhase, M. Miller, M.	
Start Date:	12/1/2008	Project End Date:	12/31/2012	
Site(s):	MTRH, Webuye Hospital			
Project Description:	A comprehensive pharmacist run anticoagulation care management system customized to a resource constrained setting has been created and implemented. The primary interventional element of this program is the creation of an organized system for INR monitoring of patients requiring anticoagulation with warfarin.			
Update:	In October, an article on the performance outcomes of the program was published in the Journal of Thrombosis and Haemostasis: Manji I, Pastakia SD, Do AN, Ouma MN, Schellhase E, Karwa R, Miller ML, Saina C, Akwanalo C. Performance outcomes of a pharmacist-managed anticoagulation clinic in the rural, resource-constrained setting of Eldoret, Kenya. J Thromb Haemost 2011; 9: 2215-20. This analysis has demonstrated that the anticoagulation monitoring service is able to provide care similar to clinics in a resource rich setting. Another paper describing the interaction between warfarin and rifampicin is currently under development. The program intends to expand to other sites outside of MTRH in the next year.			
Project Name:	ART Treatment Failure and Drug Resistance in HIV-Infected Patients on Second Line Regimens in Western Kenya			
Investigator(s):	R. Kantor, L. Diero, N. Buziba			
Start Date:	11/30/2011	Project End Date:	9/1/2012	
Site(s):	MTRH			
Project	ART treatment failure and drug resis	ART treatment failure and drug resistance in HIV-infected patients on second line regimens in		
Description:	Western Kenya studies the prevalence and implications of 2nd line failure in a diverse HIV in resource limited settings. It aims at providing data for future design of regimens and			

identification of treatment failure and drug resistance. Specific aims are:- (1)to determine prevalence and correlates of second line virological failures (2) to study research patterns and implications of drug resistance (3) to examine predictors of drug resistance evolution. The study enrolls patients who are HIV positive, have been on second line medicine for at least six months, over 18 years of age and willing to consent. On the first visit, participants are drawn blood for		
CD4 and Viral load tests and on the second visit only participants with detectable viral loads will be followed for drug resistance test.		
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antiretroviral therapy adherence and clinic adherence following the post-election crisis in Kenya and the factors associated with their return to clinic or with adherence to medications. One		
analysis focused on the immediate post-crisis period (through April 2008), and the second		
looking longitudinally through December 2008. We also completed nine key informant		
interviews with healthcare providers in the AMPATH system in Kenya in order to offer		
complementary information on what factors constituted barriers or facilitators for returning to		
n Conflict		
medication		
adherence' (2009 April 4:3(1):5.) Findings of the longitudinal analyses will be presented at the		
2011 International AIDS Society meeting as a poster presentation in Rome, Italy. Manuscript was		
published in Journal of Acquired Immune Deficiency Sydroms (JAIDS) in October of 2011 (Authors		
and title: Yoder RB, Nyandiko WM, Vreeman RC, Ayaya SO, Gisore PO, Braitstein P, Wiehe SE.		
'Long-term impact of the Kenya post-election crisis on clinic attendance and medication adherence for HIV-infected children in western Kenya')		
Assessment and Treatment of Pain at Moi Teaching and Referral Hospital G. Gramelspacher, C. Owino, K. Huang, R. Vreeman, F. Njuguna, R. M. Strother, M. Hagembe		
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rationale for measuring pain and pain treatment in hospitalized patients is to develop a baseline		
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Update:	We completed Phase 2 of the study and finished recruiting the remaining 30 of 385 patients. We are now in the process of data analysis and publication.			
Project Name:	Biomarkers Of Vincristine Periphera	l Neuropathy In Keny	van Children With Cancer	
Investigator(s):	J. Rennberger, F. Njuguna, J. Skiles	, ,		
Start Date:	6/1/2011	Project End Date:	11/1/2011	
Site(s):	MTRH			
Project	This project is aimed at assessing pe		_	
Description:	malignancies and who are receiving			
Update:	We have finished the recruitment o		its and samples taken for genetic	
	analysis have been shipped to the U	SA.		
Project Name:	Biomarkers of Vincristine Toxicity in	Kanyan Children		
Investigator(s):	J. Renbarger, F. Njuguna, J. Skiles, G	•		
Start Date:	6/27/2011	Project End	7/1/2012	
01011 2 0.001	0,2,,2011	Date:	7,1,2012	
Site(s):	MTRH			
Project	_	•	y HIV negative child who is receiving	
	vincristine as part of their cancer care. We are specifically collecting specimens of blood and			
Description:	· ·	saliva to assess the pharmacokinetics and pharmacogenetics of vincristine metabolism and		
	saliva to assess the pharmacokinetic			
	saliva to assess the pharmacokinetic toxicity. We are additionally conductionally		etics of vincristine metabolism and europathy exams on subjects enrolled	
Description:	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity.	cting detailed serial n	europathy exams on subjects enrolled	
	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We	e have not really enco	europathy exams on subjects enrolled ountered any significant problems with	
Description:	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We	e have not really enco	ountered any significant problems with and are in the process of performing an	
Description:	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We the study to date. We have enrolled interim analysis to determine if we	e have not really encoded 78 patients to date need to recruit more	ountered any significant problems with and are in the process of performing an	
Description:	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We the study to date. We have enrolled interim analysis to determine if we publications have come from this st will continue to follow those patients.	e have not really enco d 78 patients to date need to recruit more udy yet given that we ts who have already o	countered any significant problems with and are in the process of performing an patients. No presentations or e are just beginning interim analysis. We can of the process of performing and patients or e are just beginning interim analysis.	
Description:	saliva to assess the pharmacokinetic toxicity. We are additionally conduct to assess for toxicity. Participant accrual is going well. We the study to date. We have enrolled interim analysis to determine if we publications have come from this st	e have not really enco d 78 patients to date need to recruit more udy yet given that we ts who have already o	countered any significant problems with and are in the process of performing an patients. No presentations or e are just beginning interim analysis. We can of the process of performing and patients or e are just beginning interim analysis.	
Description: Update:	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We the study to date. We have enrolled interim analysis to determine if we publications have come from this st will continue to follow those patient assessments at each visit when they	e have not really enced 78 patients to date need to recruit more udy yet given that we to who have already or come for chemothe	countered any significant problems with and are in the process of performing an patients. No presentations or e are just beginning interim analysis. We enrolled by doing serial neuropathy rapy.	
Description:	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We the study to date. We have enrolled interim analysis to determine if we publications have come from this st will continue to follow those patient assessments at each visit when they building Competencies through Bila	e have not really enced 78 patients to date need to recruit more udy yet given that we to who have already or come for chemothe teral International Ex	changes-Using Qualitative Methods to	
Description: Update:	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We the study to date. We have enrolled interim analysis to determine if we publications have come from this st will continue to follow those patient assessments at each visit when they building Competencies through Bila Measure the Impact on Pediatric Re	e have not really enced 78 patients to date need to recruit more udy yet given that we to come for chemothe teral International Exsidents from Host an	ountered any significant problems with and are in the process of performing an patients. No presentations or a are just beginning interim analysis. We enrolled by doing serial neuropathy rapy.	
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Description: Update:	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We the study to date. We have enrolled interim analysis to determine if we publications have come from this st will continue to follow those patient assessments at each visit when they building Competencies through Bila Measure the Impact on Pediatric Recommunication and Systems-Based D. Litzelman, S. Ayaya, R. Umoren, J.	e have not really enced 78 patients to date need to recruit more udy yet given that we to who have already or come for chemothe teral International Exsidents from Host an Care	changes-Using Qualitative Methods to	
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Update: Project Name: Investigator(s):	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We the study to date. We have enrolled interim analysis to determine if we publications have come from this st will continue to follow those patient assessments at each visit when they building Competencies through Bila Measure the Impact on Pediatric Recommunication and Systems-Based D. Litzelman, S. Ayaya, R. Umoren, J. M. Palmer	cting detailed serial need have not really enced 78 patients to date need to recruit more udy yet given that we to who have already expression to the teral International Existents from Host an Care . Woodward, R. Vree	changes-Using Qualitative Methods to d Visiting Countries in Professionalism,	
Description: Update: Project Name: Investigator(s): Start Date: Site(s):	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We the study to date. We have enrolled interim analysis to determine if we publications have come from this st will continue to follow those patient assessments at each visit when they building Competencies through Bila Measure the Impact on Pediatric Recommunication and Systems-Based D. Litzelman, S. Ayaya, R. Umoren, J. M. Palmer 11/27/2009 MTRH, IU, UAEH	cting detailed serial new have not really enced 78 patients to date need to recruit more udy yet given that we to swho have already expression to the come for chemothe teral International Exsidents from Host an Care Woodward, R. Vree Project End Date:	countered any significant problems with and are in the process of performing an patients. No presentations or a are just beginning interim analysis. We enrolled by doing serial neuropathy rapy. Schanges-Using Qualitative Methods to d Visiting Countries in Professionalism, man, E. Liechty, D. Lorant, S. Stelzner,	
Description: Update: Project Name: Investigator(s): Start Date: Site(s): Project	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We the study to date. We have enrolled interim analysis to determine if we publications have come from this st will continue to follow those patient assessments at each visit when they building Competencies through Bila Measure the Impact on Pediatric Recommunication and Systems-Based D. Litzelman, S. Ayaya, R. Umoren, J. M. Palmer 11/27/2009 MTRH, IU, UAEH Focus groups are being held to assess	e have not really enced 78 patients to date need to recruit more udy yet given that we ts who have already or come for chemothe teral International Existents from Host an Care Woodward, R. Vree Project End Date:	countered any significant problems with and are in the process of performing an patients. No presentations or a are just beginning interim analysis. We enrolled by doing serial neuropathy rapy. Schanges-Using Qualitative Methods to d Visiting Countries in Professionalism, man, E. Liechty, D. Lorant, S. Stelzner, 6/30/2012 Jent exchange project on participating	
Description: Update: Project Name: Investigator(s): Start Date: Site(s):	saliva to assess the pharmacokinetic toxicity. We are additionally conducto assess for toxicity. Participant accrual is going well. We the study to date. We have enrolled interim analysis to determine if we publications have come from this st will continue to follow those patient assessments at each visit when they assessments at each visit when they building Competencies through Bila Measure the Impact on Pediatric Recommunication and Systems-Based D. Litzelman, S. Ayaya, R. Umoren, J. M. Palmer 11/27/2009 MTRH, IU, UAEH Focus groups are being held to assess residents from Indiana University So	cting detailed serial new have not really enced 78 patients to date need to recruit more udy yet given that we to who have already of come for chemothe teral International Exsidents from Host an Care . Woodward, R. Vree Project End Date: ss the impact of residency of Medicine (IU)	countered any significant problems with and are in the process of performing an patients. No presentations or a are just beginning interim analysis. We enrolled by doing serial neuropathy rapy. Schanges-Using Qualitative Methods to d Visiting Countries in Professionalism, man, E. Liechty, D. Lorant, S. Stelzner, 6/30/2012 Jent exchange project on participating SOM), Moi University School of	
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Practice, and Practice Based learning and improvement. Update: Ongoing recruitment of study participants continues with the goal of comparing exbetween the participating foreign institutions. Poster Presentation The IIMPS Factors: Residents' Perception of the Factors Influer Acquisition of ACGME Competencies through a Global Health Elective RA Umoren,	ncing their ME Riner, M			
between the participating foreign institutions. Poster Presentation The IIMPS Factors: Residents' Perception of the Factors Influen	ncing their ME Riner, M			
Poster Presentation The IIMPS Factors: Residents' Perception of the Factors Influer	ME Riner, M			
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rioquisition of rioquisition and rioquis	•			
Palmer, IF Woodward, RC, Vreeman, S, Stelzner, DF Lorant, SO Avava, FA Liechty, an	Palmer, JF Woodward, RC Vreeman, S Stelzner, DE Lorant, SO Ayaya, EA Liechty, and DK Litzelman. 2011 Global Health Conference co-sponsored by the Global Health Education Consortium, Canadian Society for International Health and the Consortium of Universities for			
·				
Global Health, Montreal, Canada - November 13-15, 2011				
Papers under review 1. Umoren R, Einterz R, Litzelman D, Pettigrew R, Ayaya SO, I	Liechtv EA.			
Reciprocity in Global Health Partnerships: Hosting International Exchange Physician	•			
Umoren, RA, Woodward, J, Vreeman, RC, Palmer MM, Stelzner, S, Lorant, DE, Riner				
EA, Litzelman D. Can Core ACGME Competencies Be Learned Through Global Health	•			
	·			
Project Name: Cervical Cancer See and Treat: How Best to Follow-Up				
Investigator(s): S. Cu-Uvin, E. O'rango, H. Mabeya, S. Washington				
Start Date: 9/1/2011 Project End 8/31/2012				
Date:				
Site(s): MTRH, Mosoriot, Turbo				
Project This is a cross sectional study involving 660 HIV-infected women attending 3 AMPA				
Description: (Cervical cancer Screening and Prevention Program) sites who have undergone VIA				
cryotherapy >6 months for cervical dysplasia. Demographic information as well as a				
history will be obtained. They will undergo a gynecologic examination. Women with	-			
frank cervical cancer or current genital tract infection will not be enrolled and will be				
standard of care. Women with genital tract infection will undergo syndromic treatn				
be eligible to be enrolled 3 weeks after treatment if they have cleared the infection	-			
gyn exam, the following will be done for all study participants: VIA, conventional Pa	•			
, , ,	endocervical cytobrush for HPV typing. All women with positive VIA result will undergo colposcopy and biopsy at the next available colpo/biopsy clinic day. Those with negative VIA result will return in 4-6 weeks to receive the results of their Pap smear and HPV typing. If either the Pap smear or HPV typing is abnormal, they will undergo colposcopy with biopsy on the next available colpo/biopsy clinic day. Women with negative VIA, PAP smear and HPV will follow standard of 8 care that is annual screening with VIA. Histological diagnosis will be the gold			
standard of 8 care that is annual screening with VIA. Histological diagnosis will be to standard. Women will be asked several questions regarding their experience.	ne goid			
	investigator			
	The project has put up an amendment for inclusion of one more consultant as a co-investigator. Study recruitment started officially on 14th September 2011 6 months after cryotherapy as per			
the study protocol. The study has currently enrolled 14 participants (2.12%) withou				
reported incidence. The Main challenge being low numbers recorded who meet cry				
criteria across the three study sites. The study staff were taken through study initia				
on 13th and 14th of November 2011.	tion training			
On 13th and 14th of November 2011.				
Project Name: Comparison of Protein-Energy Malnutrition and <i>P. falciparum</i> Malaria levels in AM	PATH and			
Non- AMPATH COBES centres in Western Kenya	.,			
Investigator(s): K. Taylor, A. Kwena, M. A. McDowell, S. Mining, J. Wakhisi				
Start Date: 8/1/2011 Project End 8/1/2013				
Date:				
Site(s): Mosoriot, Turbo, Amukura, Naitiri, Chulaimbo, Nambale				
Project There are a number of AMPATH Centres that are also used for Community-Based E	ducation and			
Description: Service (COBES) student placement by the Moi University School of Medicine on an				
The main objective of the proposed study is to compare the levels of protein energy				
and malaria in these centres using non- AMPATH COBES centres as controls. This m	•			

	the role played by AMPATH in the s	tudy areas.	
Update:	Stunting, Wasting and Underweight appeared to be lower in AMPATH centres when compared to non-AMPATH centres. Only results from 2 AMPATH centres (Mosoriot and Chulaimbo) were available for the analysis. Further data collection and analysis is hoped to be carried out in the next quarter in more centres to confirm the results and suggest possible reasons for the trends. The results reported here do not include P. Falciparum levels.		
Duning Alaman			111111111111111111111111111111111111111
Project Name:	Computerized Counseling to Promo Kenya)	te Positive Prevent	ion and HIV Health in Kenya (CARE+
Investigator(s):	A. Kurth, A. M. Siika, D. Ayuku, J. Ba S. Braithwaite	liddawa, J. D. Forte	nberry, J. Sidle, K. Wools-Kaloustian,
Start Date:	8/14/2009	Project End Date:	6/30/2013
Site(s):	MTRH, Burnt Forest		
Project Description:	(CARE+_Kenya) for use in western K • 2.1.A. Conduct interviews V	enya. [1st 18 mont with up to 25 HIV-pe	n computerized counseling intervention ths] ositive urban and up to 25 rural patients for the Prevention & Treatment of
	HIV/AIDS (AMPATH®) to un staff focus groups (n~16) to practices, beliefs about pati • 2.1.B. Using above, modify local Kiswahili. Adapt skill-k ART adherence, reproductiv • 2.1.C. Conduct iterative so (n=20) and n=8 staff. Perfor psychometric performance Specific Aim 2: RCT. Establish biolocomputerized counseling interventi • 2.2.A. Longitudinal RCT in a adults with missed ART dos unprotected sex in last 6 m infection (STI) in last 3 year for baseline, 3, 6, and 9 more reported unprotected sex varachomatis, N. gonorrhoed viral load at 0, 6, 9 months, refill, self-report, and clinic Specific Aim 3: Establish cost-effect 48] • 2.3.A. Follow patients at the messages and collect patie patient counseling need. • 2.3.B. Economically evaluate	derstand HIV and consists assess positive present computer use a intervention content puilding videos on 'pye health, etc.). It was a substituted and behaviora on in Kenya ('CARE-in urban and a rura ses on self-report, phonths, >1 partner in the sessions. HIV to with HIV-negative/use, T. vaginalis. Are and at all time point attendance. It was computed the case of computation of the case of case of case of the case of case of case of the case of case of case of the case of case of the case of case of the case of ca	omputer training needs. Conduct two vention and ART adherence support and training needs. Int; translate and record audio files into positive health' (prevention, disclosure, ting with 10 urban and 10 rural patients a reliability assessment to establish
	effectiveness model to calc infection averted, and 2) co • 2.3.C. If CARE+_Kenya is ef	culate 2 incrementa ost/disability adjust ficacious and efficie assess translationa	prevented; then create a cost- I cost-effectiveness ratios: 1) cost/HIV ed life year (DALY) saved. ent, we will develop a proposal for a I effectiveness of CARE+_Kenya

Update:

Achievements:

- 1. LAUNCH OF THE RCT Module1 randomized controlled trials commenced on 1st September 2011 and Burnt Forest started on 23rd November 2011 (delays due of equipment issues and lab staffing finalization).
- 2. AMENDMENTS: The IRBs of each institution in the study approved new support staff, the addition of Scott Braithwaite, informed consent forms, recruitment script and recruitment flyers, and a modification to the lab protocol for GC/CT using PCR and Trichomonas using in-pouch kits. A second amendment to add a pill count survey to further enhance data collection methods for the study was submitted to the IRBs of each institution and we anticipate approvals to be received soon.
- 3. SUPPORT VISITS: Care+ (Plus) Spanish Coordinator John Lizcano came to Kenya on August 21st for two weeks to assist the CARE Plus Kenya team during their start up RCT phase for both Module1 and Burnt Forest. Prof. Ann Kurth came to Kenya two months later in October to oversee trial progress and to ensure that the study protocols are being adhered to.
- 4. QA/QC One of the study investigators, Joyce Baliddawa, has been tasked with the role of assisting with Quality Assurance (QA) for the RCT procedures and documentation.
- 5. RECRUITMENT We have had tremendous success in recruitment of study participants in module1 study site. The same is expected for burnt forest over the coming months.
- 6. DATA COLLECTION We are currently using RCT appointment log, RCT recruitment script, RCT consent form, RCT participants tracking form, and RCT ID Number labels (that is being used on participants' paperwork and appointment and incentive logs). This helps us in ensuring we track our participants as they come on their monthly follow-up visits. All the data at the end of each day is stored electronically into the study database and uploaded on a weekly basis to NYU secure site while we another copy is stored to an external and password protected hard drive.
- 7. PSYCHOLOGICAL FINDINGS Some of the psychological findings we have documented for Module1 since recruitment began were as follows; a) Depression 4 b) Intimate Partner Violence (IPVs) -29 c) Suicidal thoughts 13 All participants were referred to AMPATH Psychosocial department for further intervention purposes by the study protocol (including following assessment with Psychiatry), especially for those with potentially suicidal thoughts.
- 8. LAB TESTING All Module1 lab results have been filed to the respective participant's files and another copy into their regular AMPATH file. All those with Trichomonas Vaginalis results turning positive, we recall them for further care. Soon we will have test result and treatment guideline sheets for reporting test results and suggested treatment back to the clinics.
- 9. STANDARD OPERATING PROCEDURES All SOPs were developed, revised and approved by the study team.
- 10. COMMUNICATIONS The study team has kept abreast with the study activities on a weekly basis via Skype conference calls. The study coordinator and NYUCN research scientists have provided weekly reports and study updates to the study team.

 Plans:
- 1. RECRUITMENT We intend to finalize recruitment of participants for module1 study site by the end of 2011. We plan to finalize recruitment of participants for burnt forest by the end of March 2012. Based on this timeline, we expect to have last follow-up visits by the end of 2012. Challenges:
- 1. HARDWARE One of the tablets for participants broke thus had to be shipped back to the US for repairs. It was repaired and is being configured for use in Burnt Forest. The server on the other hand experienced technical problems prior to the RCT and needed to be repaired.
- 2. ECAP A few eCAPs have been disabled due to breakage either when they were dropped or by water damage. The eCAPS that are disabled will be shipped back to the supplier for review and attempts to recover the data. New eCAPS have been provided to participants and additional ECAPS were requested in case of additional needs.
- 3. CARE+ APPLICATION PROGRAM We've had also to reschedule participants for follow up visits due to small computer bugs in the care tool but that was sorted out by the software

	programming company in Seattle.			
	4. PERSONNEL It was necessary to request permission to employ the Phlebotomist at Burnt Forest for our study since he is well trained on the procedures we anticipate to carry out.			
	•	•	· · · · · · · · · · · · · · · · · · ·	
	Although this required extensive time, approval was obtained from AMPATH Program Managers			
	Office, on 20th November 2011 and the Phlebotomist started working with the project on 23rd			
	November 2011.			
	5. RECRUITMENT Due to the upcoming holidays, we have had to schedule next appointments of			
	our participants to next year second week to match their regular AMPATH care. Most			
	participants are travelling up counti	ry and will resume regi	ular care the first and second week of	
	January 2012. The CARE+ Kenya st			
	support and the opportunity to rep			
		· •		
Project Name:	Conceptual Model of Factors Sustai	ning Pediatric Adherer	nce to Antiretroviral Therapy in	
	Western Kenya (Qualitative Inquiry	_		
Investigator(s):	R. Vreeman, W. Nyandiko, S. Ayaya,		•	
Start Date:	3/1/2007	Project End	1/1/2010	
Start Date.	3/1/2007	Date:	1/1/2010	
Site(s):	MTRH	Dato.	1	
Ono(o).	Turbo			
	Burnt Forest			
	Chulaimbo			
Drainat		f	dividual law information with	
Project			dividual key informant interviews with	
Description:	_	•	Γ, older children on ART, and healthcare	
	providers of children with ART. The	-	lify key factors sustaining children's	
	adherence to ART in western Kenya.			
Update:	From this study, we were able to develop a conceptual model to describe pediatric adherence to			
	antiretroviral therapy in the setting of western Kenya. We continue to make use of the			
	transcripts of the interviews and focus groups for grounded theory data analysis and in the			
	development of our pediatric ART adherence measurement strategy and questionnaires. The			
	conceptual model for pediatric ART adherence was published in Qualitative Health Research in			
	December 2009 (Authors and title: Vreeman RC, Nyandiko WM, Ayaya SO, Walumbe EG,			
	Marrero DG, Inui TS. 'Factors sustai	ning pediatric adheren	ce to antiretroviral therapy in Western	
	Kenya')			
Project Name:	Descriptive Analysis of Patients See	n in an Emergency Der	partment in Western Kenya	
Investigator(s):	D. House, N. Ongaro, Nyabera, K. Y		•	
Start Date:	1/1/2011	Project End	5/1/2012	
	_, _, _,	Date:	0, =, = 0 = 1	
Site(s):	MTRH			
Project	Capture a years worth of data regarding all the patients seen in the Accident & Emergency			
Description:	Department, including basic demographics, diagnoses, and disposition.			
Update:	Continuing to collect data for all patients seen in 2011.			
Opuato:	Continuing to conect data for an patients seen in 2011.			
Project Name:	Disclosure of HIV status to children:	Evaluating the proval	ance and impact of telling children	
Project Name.		- ·	ence and impact of telling children	
Investigates/s	about their HIV status in western Ke	•	ali Ciagra Naladi i di 1971	
Investigator(s):	R. Vreeman, W. Nyandiko, S. Ayaya,	, Marete, Tenge, Songo	ok, Gisore, Nabakwe, Inui, Wiehe,	
0	Hartsell	. ·	10/01/02/0	
Start Date:	3/1/2011	Project End	12/31/2012	
0'' ()		Date:		
Site(s):	MTRH, Turbo, Webuye Hospital, Kitale			
Project	HIV-infected children must eventua	lly learn of their HIV st	atus, but neither the prevalence of	
		·		

Description: Update:	disclosure to children nor the impact of disclosure on HIV-infected children have been clearly delineated within the AMPATH HIV care program in western Kenya. The objectives of this study are to measure the disclosure prevalence in the AMPATH clinics, with special attention to whether there are changes in disclosure after AMPATH pediatric disclosure training and protocols are implemented, and to assess how disclosure may impact children. We will assess what information about their HIV status is known by HIV-infected children enrolled in AMPATH. In addition, given the potential for disclosure to impact other areas of the child's life and medical care, we will gather information on the impact of disclosure on key areas in order to measure any changes after the implementation of the disclosure process. The factors that will be closely monitored include adherence to medication, experiences of stigma, and psychosocial issues related to disclosure. IRB approval secured in 12/2010 and IREC approval secured in 06/2011. The project was implemented starting in 07/2011 and so far over 400 patients at the MTRH site have been evaluated. The study evaluations have also been implemented at the sites Turbo, Kitale and Webuye. The study's pilot results were submitted as an abstract to the Pediatric Academic		
		ssion to NICHD was ma	de in 11/2011 to evaluate disclosure
	interventions in AMPATH clinics.		
Project Name:	failing a first-line 2NRTI+ NNRTI regi		s for second-line therapy in patients 3.0, dated 06 September 2010.
Investigator(s):	K. Wools, A. M. Siika	Desirat Ford	42/24/2044
Start Date:	2/9/2011	Project End Date:	12/31/2014
Site(s):	MTRH		
Project Description:	EARNEST is a three arm parallel group, open-label, multi-centre, randomised controlled trial. 1200 patients will be included who are HIV-infected adults who have taken a first-line NNRTI-based regimen continuously for a total period of at least 12 months, and developed treatment failure defined by modified WHO 2010 criteria as one of the following: •New WHO Stage 4 event (with CD4 < 200 cells/mm3 and viral load (VL) > 400 copies/ml) •CD4 < 100 cells/mm3, or CD4 fall to pre-treatment baseline or below, or CD4 < 200 cells/mm3 X 2 with previous CD4 > 400 cells/mm3 (with VL > 400 copies/ml) •VL > 5,000 copies/ml ×2 The trial aims to determine whether, in patients failing a first-line NRTI and NNRTI-containing regimen 1. the use of bPI plus raltegravir (an integrase inhibitor) is superior to standard of care (bPI plus 2 new NRTIs) in achieving good HIV disease control at 96 weeks after randomisation. 2. the use of bPI monotherapy is non-inferior to standard of care in achieving good HIV disease control at 96 weeks after randomisation		
Update:	The study closed to accrual in April 2011. Participants will be followed up for 144 weeks (approximately 3 years). One subject withdrew consent and one died; the 50 active ones are on follow up and are doing well.		
Project Name:	Electronic Medical Records to Impro	ove Patient Care & Pub	lic Health in Rural Kenya
Investigator(s):			Spitzer, D. Caloia, J. Sidle, M. Were, K.
Chart Data	Wools-Kaloustian, P. Braitstein, W. O'Meara, P. Biondich		
Start Date:	10/1/2007	Project End Date:	12/31/2011
Site(s):	MTRH, Mosoriot, Turbo, Burnt Fore		
Project Description:	Develop and implement a primary care module of the AMRS for Mosoriot, Turbo, Burnt Forest, and the ANC, Sick Child, and TB clinics at MTRH. Then use the system to implement computer-based decision support to improve coordination of care between AMPATH'S HIV/AIDS clinics and these primary care clinics.		
Update:	All aspects of the system have been implemented. Final asssessment of the reminders is to be		

Project Name:	done before the end of December. Pre- and post-implementation time-motion studies have been done at Turbo and Burnt Forest. A pre-implementation time-motion study has been done at MTRH's sick child clinic; post-implementation study yet to be done. A pre-implementation quality assessment was done in the MTRH ANC clinic; post-implementation study is yet to be done. Implementation of the primary care module was slow and difficult. The model in the rural health centres had to be changed due to problems managing charts. MTRH TB clinicians never really embraced the system. It is being used well in the MTRH Sick Child and ANC clinics and at Turbo and Burnt Forest. Implementation at Mosoriot was spotty and difficult due to multiple changes in leadership and no commitment to the study by staff. Several publications are in the works; none published to date. Final report is being prepared. The system is to be taken over and maintained by the AMPATH Primary Healthcare Initiative. Engagement In Care Among HIV-Infected Patients In Resource Limited Settings: A Protocol For Assessing The Magnitude Of And Reasons For Failure To Engage In Care Among HIV-Infected
	Patients In The East Africa International Epidemiologic Databases To Evalua
Investigator(s):	C. Yiannoutsos, K. Wools-Kaloustian, E. Geng, P. Ayuo, L. Diero, B. Braitstein
Start Date:	8/1/2011 Project End 7/31/2012
	Date:
Site(s):	MTRH, Burnt Forest, Webuye Hospital
Project Description:	The effectiveness of the roll-out of antiretroviral therapy (ART) at President's Emergency Plan for AIDS Relief (PEPFAR)-funded sites in Africa most fundamentally depends on engaging HIV-infected patients to initiate ART followed by consistent retention in care. Failures of engagement in the form of failure to initiate ART (FTI) and failure to retain in care (FTR) may well represent the biggest limitation to the effectiveness of PEFPAR-funded ART services. Attempting to understand FTI and FTR brings a critical barrier into focus: in Africa, 25% of patients who start ART are lost to follow-up (i.e., have unknown outcomes) from their originating clinic by two years, and this percentage is likely as high among patients who are eligible but who have not yet started ART. For ART-eligible patients, losses to follow-up means that both deaths while awaiting ART initiation and ART initiation at other sites are systematically under ascertained, rendering the observed magnitude and impact of delays uninterruptable. For patients already on ART, losses to follow-up have been regarded as synonymous with disengagement from care. Yet emerging data suggests many 'lost' patients have simply started accessing care at newer sites as ART services decentralized. Furthermore, many lost patients have died, and unless these deaths are accounted for, existing estimates of outcomes and the effect of FTI and FTR are incomplete. Without generalizable and efficient strategies to manage the impact of losses to follow-up (i.e., unknown outcomes), the task of intelligently evaluating FTI and FTR is at a standstill. At a prototypical ART delivery site in Mbarara, Uganda, we have used a sampling-based approach to understand the effect of losses to follow-up on our clinic population's experience over time. We now propose to implement this approach at 11 sites in 3 countries in the East Africa leDEA consortium in order to further understand the magnitude and determinants of FTI and FTR as well as the effects of FTR and FTI on survival and finally
Update:	Update:
	 The study received it's IREC approval on 1st of August 2011, and immediately commenced active follow- up. Outreach workers from all site were trained on the Patient follow-up and form

Description:	pediatric ART adherence for childre	n ages 0 to 14 years i	n western Kenya and to evaluate which tion about children's ART adherence.	
Project		e to develop and test	a reliable, valid instrument to measure	
Site(s):	MTRH, Turbo	Dato.		
Start Date:	9/1/2009	Project End Date:	8/31/2014	
Investigator(s):			Carroll, W. Tu, W. Tierney, D. Marrero	
Inner all and a fine	(CAMP study)			
Project Name:	Evaluation of a comprehensive stra	tegy to measure pedia	atric adherence to antiretroviral therapy	
	and submitted for publication.	ca age basea form		
Spaato.	weight of sick children and outperformed age-based formulas. The manuscript has been written			
Update:	to commonly used age based formulas for estimating weight of sick children Have completed the study and analysis which showed the Broselow tape to accurately predict			
Description:		•		
Project	MTRH Evaluating the accuracy and applica	hility of the Brosolow	tape (height based weight estimation)	
Site(s):	MTDH	Date:		
Start Date:	4/1/2011	Project End	11/17/2011	
Investigator(s):		Γ <u>-</u>		
	Measure Up?			
Project Name:	Estimating the Weight of Children in	n Kenya: Do the Brose	elow Tape and Age-Based Formulas	
	, , , , , , , , , , , , , , , , , , , ,			
Update:	Study complete, analysis complete, manuscript in progress			
	with other types of foods.			
	encouraged to breast feed and which should be educated about formula feeding their infants. In addition this study will help us to understand why some women choose to mix breast feeding			
Description:	used to help decide which HIV (the		-	
Project		-	e administered within the clinic can be	
Site(s):	MTRH, Burnt Forest, Chulaimbo		and an included and a second as the second a	
0:: ()		Date:		
Start Date:	1/10/2006	Project End	1/31/2012	
Investigator(s):	K. Wools-Kaloustain, W. Nyandiko, E	B. Nyunya, S. Bucher, (
Project Name:	Enhancing Infant Feeding Options for	or HIV Infected Mothe	ers	
	·			
	 Presentations and publicati 	ons: NONE		
	trackers.			
	<u> </u>	•	rmation has also been a challenge to the	
		· ·	difficult for the trackers	
	_	10% of the patient cha	arts/files have not been found	
	the close of the study when data will be analysed.Some of the challenges: -			
	We cannot assertain the outcomes of these Lost-to-Follow-Up patients for now but until the close of the study when data will be applying.			
	 We also hired a full-time data entry clerk for data entry purposes. Data is entered into an online secure data tool called Quesgen. 			
	25% of the cases are either still pending revisits or being newly looked for. • We also hired a full-time data entry clerk for data entry purposes. Data is entered into			
	for tracking. We have so far tracked approximately 75% of the sampled to be tracked,			
	MTRH, Webuye and Burnt Forest. Of the 1155 sampled, 953 lost to follow-up and are			
	•	ple of 1155 Patients	inclusive for the 3 study sites namely	
	and 1 for Burnt Forest)	antional stail for the s	, stady site (2 for Within, 1 for Webuye	
	•	ditional staff for the 3	study site (2 for MTRH, 1 for Webuye	
	completion.			

Project Name: Im Site(s): More ad of of of of the project Name: Project Name: Improject Out Description: paper ad of of of the project of project Name: Improject Name: Impr	ediatric ART adherence measuremediatrics); Aim 2: Develop a reliable easurement tool (SF-CAMP) for us nivironments; Aim 3: Evaluate the factor and SF-CAMP within the Avaluate the reliability and validity ompared to a home-based care selectived funding for Aims 1, 2 and IMH. IRB and IREC approvals secure genitive interviews with 20 participatestionnaire. Project staff were him rolled 211 patients (with 8 with dididation study. With funding from at Aim 4, recruiting patients from the rence measurement in a home cruited for evaluation under Aim vereman, W. Nyandiko, S. Ayaya, 1/2007 TRH, Turbo, Burnt Forest, Chulain unditative research project involving rents and caregivers of HIV-infect to oviders of children with ART. Print therence to ART in western Kenya a child's status to others emerger	nent questionnaire (CA) le, valid, short-form verse as an adherence so field- readiness, imple MPATH HIV clinical cas of this measurement ting. 3 via K23 career developments from urban and red and trained. For the rawals). 193 children is a PEPFAR Public Healthe Turbo clinic site in e-based vs. clinic-base 4. Data entry for the verse Wallambe, D. Maria Project End Date: nbo ng focus groups and inted children taking AR hary objective was to in Disclosure to children.	lopment to Rachel Vreeman via NIH-EC accrual target is 770. Completed rural clinics to develop and modify the he adherence validation study, we have have completed the adherence lth Evaluation, we have begun to carry addition to MTRH and evaluating the d care setting. All 40 children have been validation study is underway. ative Inquiry into Pediatric Adherence) rero, T. Inui 12/31/2011 addividual key informant interviews with RT, older children on ART, and healthcare identify key factors sustaining children's
Project Name: Im Investigator(s): R. Start Date: 3/3 Site(s): M Project Qu Description: pa pro ad of of Update: Wo to pro Pa SO on res Project Name: Im	npact of Disclosure on Pediatric Alveeman, W. Nyandiko, S. Ayaya, 1/2007 TRH, Turbo, Burnt Forest, Chulain ualitative research project involving arents and caregivers of HIV-infect to oviders of children with ART. Pringle therence to ART in western Kenya a child's status to others emerger	RT Adherence (Qualita , E. Walumbe, D. Mari Project End Date: nbo ng focus groups and in ted children taking AR nary objective was to	native Inquiry into Pediatric Adherence) rero, T. Inui 12/31/2011 Individual key informant interviews with RT, older children on ART, and healthcare identify key factors sustaining children's
Investigator(s): R. Start Date: 3/3 Site(s): MT Project Qu Description: pa pro ad of of Update: Wo to pro Pa SO on res Project Name: Im	Vreeman, W. Nyandiko, S. Ayaya, (1/2007) TRH, Turbo, Burnt Forest, Chulain ualitative research project involving arents and caregivers of HIV-infect to viders of children with ART. Prim therence to ART in western Kenya a child's status to others emerged	, E. Walumbe, D. Mari Project End Date: nbo ng focus groups and in ted children taking AR nary objective was to i. Disclosure to childre	ndividual key informant interviews with RT, older children on ART, and healthcare identify key factors sustaining children's
Investigator(s): R. Start Date: 3/3 Site(s): MT Project Qu Description: pa pro ad of of of Update: Wo to pro Pa SO on res Project Name: Im	Vreeman, W. Nyandiko, S. Ayaya, (1/2007) TRH, Turbo, Burnt Forest, Chulain ualitative research project involving arents and caregivers of HIV-infect to viders of children with ART. Prim therence to ART in western Kenya a child's status to others emerged	, E. Walumbe, D. Mari Project End Date: nbo ng focus groups and in ted children taking AR nary objective was to i. Disclosure to childre	ndividual key informant interviews with RT, older children on ART, and healthcare identify key factors sustaining children's
Start Date: 3/3 Site(s): MT Project Quescription: pa product of of of Update: Work Pa SO on reserved.	TRH, Turbo, Burnt Forest, Chulain ualitative research project involving rents and caregivers of HIV-infect roviders of children with ART. Pring therence to ART in western Kenya a child's status to others emergen	Date: nbo ng focus groups and ir ted children taking AR nary objective was to i. Disclosure to childre	ndividual key informant interviews with RT, older children on ART, and healthcare identify key factors sustaining children's
Project Que pa project ad of of Update: Wo on res	ualitative research project involving arents and caregivers of HIV-infect coviders of children with ART. Prim Therence to ART in western Kenya a child's status to others emerge	nbo ng focus groups and ir ted children taking AR nary objective was to I. Disclosure to childre	RT, older children on ART, and healthcare identify key factors sustaining children's
Project Que pa project ad of of Update: Wo on res	ualitative research project involving arents and caregivers of HIV-infect coviders of children with ART. Prim Therence to ART in western Kenya a child's status to others emerge	ng focus groups and ir ted children taking AR nary objective was to I. Disclosure to childre	RT, older children on ART, and healthcare identify key factors sustaining children's
Description: pa pro ad of of Update: to pro Pa SO on res Project Name: Im	erents and caregivers of HIV-infect oviders of children with ART. Prim Therence to ART in western Kenya a child's status to others emergen	ted children taking AR nary objective was to n. Disclosure to childre	RT, older children on ART, and healthcare identify key factors sustaining children's
Update: Wood of property of the property Name: Im	oviders of children with ART. Prim Therence to ART in western Kenya a child's status to others emerge	nary objective was to i. Disclosure to childre	identify key factors sustaining children's
Project Name: Im	providers of children with ART. Primary objective was to identify key factors sustaining children's adherence to ART in western Kenya. Disclosure to children of their own HIV status and disclosure of a child's status to others emerged as key factors for sustaining adherence; additional analyses of how caregivers perceive pediatric disclosure and its effects were then carried out. We were able to describe the influence of disclosure of a child's HIV status (both to the child and to other people) on pediatric adherence. These data were presented in oral and poster presentations at the AIDS 2008 meeting in Mexico City. Manuscript was published in AIDS Patient Care and STDs in October of 2010. (Authors and title: Vreeman RC, Nyandiko WM, Ayaya SO, Walumbe EG, Marrero DG, Inui TS. The perceived impact of disclosure of pediatric HIV status on pediatric antiretroviral therapy adherence, child well-being, and social relationships in a		
	source-limited setting).		
Ωι	Impact of Integrated Family Planning and HIV Care Services on Contraceptive Use and Pregnancy Outcomes: A Retrospective Cohort Study		
Investigator(s): K.	K. Wools-Kaloustian, R. Kosgei, K. Lubano, C. Shen, B. Musick, A. M. Siika, H. Mabeya, J.Carter, A.Mwangi, J. Kiarie		
Start Date: 11	1/1/2009	Project End Date:	10/1/2011
Site(s): N/	/A		
1 -	ublished		
Description:			
<u>-</u>		•	A. M. Siika, K. Wools-Kaloustian, H. ne Carter: Symptom screening:

Project Name:	Increasing Animal Source Foods in Diets of HIV-Infected Kenyan Women and Their Children			
Investigator(s):	J. Ernst, G. Ettyang, C. Neumann, W. Nyandiko, A. Siika			
Start Date:	10/1/2006	Project End Date:	7/31/2012	
Site(s):	Turbo, Soy, Mautuma			
Project	The study is a three arm randomized	d, blinded and controll	ed nutrition intervention trial that	
Description:	tests the effect of iso-caloric biscuit	supplements of meat,	soy or wheat protein added to the	
	I =		children-8 years and younger and who	
		live in the Turbo environs and who receive care at one of the AMPATH clinics (Turbo, Soy,		
	Mautuma and MTRH). The women are of reproductive age and at enrollment WHO stage I or II.			
	The biscuits are provided five days a week (Monday to Friday) to subject mother and child, using directly observed therapy (DOT) for 18 months. The outcome variables include estimates of			
	lean and fat mass, quality of life, strength measures, biochemical indicators of nutritional status,			
	indicators of immune function, mea	_		
	measures of growth and developme		-	
Update:	Follow up assessments at 15, 18 and	d 24 months continued	I. Biscuit distribution continues through	
	December 2011 at which time all th	•	•	
	Challenges: 1) Inflated fuel costs ha	•		
			he Experimental Biology meeting to be	
			submitted to a meeting to be held in	
		Rio de Janeiro, Brazil in April, 2012. One presentation was given to Indiana University, School of Health and Rehabilitation Sciences Faculty, Students and Alumni in November, 2011		
	Research progress presentation given to AMPATH partners- Eldoret-Kenya in December, 2011			
	, , , , , , , , , , , , , , , , , , ,			
Project Name:	Indiana University - Moi University Academic Research Ethics Partnership			
Investigator(s):	E. Meslin, D. Ayuku, J. Eberl			
Start Date:	5/31/2008	Project End Date:	5/31/2012	
Site(s):	MTRH, Moi University			
Project	,		h Ethics partnership (IU-Moi AREP) is	
Description:	funded by a \$940,000 four-year gra			
	University in Eldoret, Kenya. IU-Mo		ning partnership with colleagues at Moi	
	that builds on longstanding partners		,	
	developed two Master's degree pro	•		
	Indianapolis and one at Moi Univers	sity in Eldoret, Kenya. ٦	These graduate programs have	
		•	ees, shared dissemination plans and	
	_		a curriculum involving required core	
	courses and electives and a practicum experience, part of which is taken at the counterpart			
	university. In addition, each IU-Moi AREP partner convenes an annual Teaching Skills in International Research Ethics (TaSkR) workshop to provide training to approximately 40 faculty			
	and students each year.	t) Workshop to provide	training to approximately 40 faculty	
Update:	·	to October 20th of 20	11, seven MSc in International Health	
	Research Ethics Students from Moi		•	
	Indianapolis-based, six week intensi	ve practicum exchange	e program. The students participated	
	in group classes, presentations, mee	-		
	l · · · · · · · · · · · · · · · · · · ·		by conducting individual interviews	
			mbers. The practicum consisted of	
	1		ities. The core experiences introduced	
	students to research ethics and inte	·	·	
	training on basic research skills. The	specialized experience	e gave students the opportunity to	

work on a specific project under the guidance of a mentor. Students attended group lectures, including: 'Introduction to Research Ethics, Education, and Policy (REEP)' by John Baumann, Executive Director of REEP; 'An AMPATH Update' by April Bell, AMPATH Research Manager; 'An Introduction to the Office of International Affairs and the Confucius Institute of IUPUI' by Ian McIntosh, Director of the Office of International Affairs; 'Conflict of Interest' by Sherry Oswalt-Smith, Conflict of Interest Manager; 'Research Compliance: Privacy and HIV Studies' by Marcia Gonzales, Assistant Vice President for Research Compliance; 'An Introduction to the Human Subjects Office' by Sarah Crabtree, Senior Research Compliance Consultant; 'Cultural Differences and Logistical Challenges of the IU-Kenya Partnership' by Ron Pettigrew, Manager of the IU-Kenya Partnership; and 'An Introduction to Library Services' by Jere Odell, the Academic Literature Specialist at the IU Center for Bioethics. Students attended classes, including: a two day course on 'How to Conduct Qualitative Research'; a weekly class, 'Introduction to Research Ethics'; one 'African Health and Culture' class; and a two day 'Research Coordinator Education Program.' They attended informal meetings with David Wilkes, Executive Associate Dean for Research Affairs; Patrick Loehrer, Director of IU Simon Cancer Center; Joe Scodro, Associate General Counsel; and Tom Inui, Director of Research for the Indiana University Kenya Program. Students also observed a monthly IRB meeting as well as a monthly Conflict of Interest meeting. The group visited the Eli Lilly Bioethics Program in Indianapolis. They also visited the Poynter Center for the Study of Ethics and American Institutions and Swahili Language Institute at the Indiana University campus in Bloomington, Indiana. In addition to the core experiences, the practicum included specialized research activities. Students were required to developed research proposals prior to their arrival in Indianapolis. The research proposals were used to match each student with at least one primary mentor (some students had 2 co-mentors). The student worked with his or her mentor to clarify key concepts in the literature, further develop the student's interview guide, and arrange additional interviews.

Short Courses:From November 21st through December 9th, the IU-Moi AREP Partnership conducted a three week short course on International Health Research Ethics. This course was intended to build capacity in the area of International Research Ethics in order to maintain the ethical and scientific quality of research protocols developed by local and international scientists. Course content focused on the responsible design and conduct of scientific research. Topics covered included: Ethical Theories and African Ethics, Good Clinical Practices in International Research Ethics, Emerging Issues in International Research Ethics, Ethics and Gender in Research, and Public Health Research and Policy.

TaSkR IV: TaSkR IV will take place February 1-3 in Eldoret, Kenya. It will follow the two and a half day format used in previous years and will be welcoming Dr. Ross Upshur from the University of Toronto and Dr. Jeremy Sugarman from Johns Hopkins University as TaSkR faculty. Just prior to TaSkR IV, IU-Moi AREP will be collaborating with the University of Manitoba and the University of Nairobi. From January 29 - 31, TaSkR faculty will be teaching a Research Ethics Course as part of the International Infectious Disease and Global Health Training Program.

Project Name:	International epidemiologic Databases to Evaluate AIDS (IeDEA)			
Investigator(s):	C. Yianoutsos, K. Wools- Kaloustian, S. Ayaya, L. Diero, J. Otieno, G.R. Somi, R. Swai , K.			
	Ngonyani, R. Lyamuya, H.B Mtiro, J.	Ngonyani, R. Lyamuya, H.B Mtiro, J. Sidle, P. Braitstein, J. Martin, D. Bangsberg, D. Glidden, S.		
	Deeks, P. Hunt, L. Diero, S. Ayaya, D. Nash, E. Abrams, B. Elu			
Start Date:	6/20/2006 Project End 7/31/2016			
	Date:			
Site(s):	All Sites			
Project	IEDEA(International epidemiologic Databases to Evaluate AIDS) Initiative This initiative will			
Description:	establish international regional centers for the collection and harmonization of data and the			
	establishment of an international re	esearch consortium to a	address unique and evolving research	
	questions in HIV/AIDS currently una	nswerable by single co	horts. High quality data is being	

collected by researchers throughout the world. This initiative provides a means to establish and implement methodology to effectively pool the collected data—thus providing a cost effective means of generating large data sets to address the high priority research questions. Combination of data collected under various protocols is frequently very difficult and not as efficient as the collection of pre-determined and standardized data elements. By developing a pro-active mechanism for the collection of key variables, this initiative will enhance the quality cost effectiveness and speed of HIV/AIDS research.

Update:

As of August 31st 2011, IeDEA has a total of 149,719 AMPATH data of which 96299 are female and 53420 are male. Research EA IeDEA co-investigators are actively involved in both international and local working groups. The international Phamaco-vigilance committee is co-chaired by Dr. Braitstein, and the Pediatric working group is lead by Prof. Ayaya and Dr. Wool-Kaloustian,. Dr. Diero and Dr. Siika are actively involved with the TB working group. Dr. Martin leads the Oncology working group and Ms. Musick is actively involved in the Data harmonization working group.

On-going Studies within IeDEA, East Africa Regional Consortium:

- 1. 'International Epidemiologic Databases to Evaluate AIDS (IeDEA) East Africa Regional Consortium' on going
- 2. 'International Epidemiologic Databases To Evaluate AIDS (IeDEA); Proposal for Data Extraction and Analysis for the Initial Projects (Version 1.0.25 October 2007)' on-going
- 3. 'National Cancer Institute Supplement to East Africa leDEA: Improving Kaposi's Sarcoma and Lymphoma Diagnostics as well as Assessing Sarcoma Incidence in Western Kenya' on-going
- 4. 'Engagement in Care Among HIV-Infected Patients in Resource limited Settings' A supplement to IeDEA East Africa- on-going

Presentations:

- Wachira J, Middlestadt SE, Vreeman R, Braitstein P. Factors Underlying Taking a Child to HIV
 Care: Implications for Reducing Loss to Follow-up among HIV-Infected and Exposed Children.
 IN: XVIII International AIDS Conference, 17-20 July 2011.
- Nash D, Farr A, McKaig R, Ekouevi D, Wools-Kaloustian K, Egger M, Hemingway-Foday J, Cooper D, Moore R, Masys D.Characteristics of HIV care and treatment programs in the International Epidemiologic Databases to Evaluate AIDS (IeDEA) Collaboration. IN: XVIII International AIDS Conference, 17-20 July 2011.
- Ciaranello AL, Lu Z, Ayaya S, Losina E, Musick B, Vreeman R, Freedberg KA, Yiannoutsos C, Wools-Kaloustian K. Incidence of WHO Stage 3 and 4 events and tuberculosis in untreated, HIV-infected children enrolling in care before 1 year of age: An IeDEA East Africa regional analysis. IN: XVIII International AIDS Conference, 17-20 July 2011.
- The IeDEA Pediatric Working Group. Programmatic and clinical management practices in the International Epidemiologic Databases to Evaluate AIDS (IeDEA) Pediatric Group: Results from a multiregional site assessment. IN: XVIII International AIDS Conference, 17-20 July 2011.

Publications:

- Braitstein P, Songok J, Vreeman RC, Wools-Kaloustian KK, Koskei P, Walusuna L, Ayaya S, Nyandiko W, Yiannoutsos C. 'Wamepotea' (They have become lost): Outcomes of HIVpositive and HIV exposed children lost to follow-up from a large HIV treatment program in Western Kenya. J Acquir Immune Defic Syndr. 2011 Jul 1;57(3):e40-6.
- Braithwaite RS, Nucifora KA, Yiannoutsos CT, Musick B, Kimaiyo S, Diero L, Bacon MC, Wools-Kaloustian K. Alternative antiretroviral monitoring strategies for HIV-infected patients in east Africa: opportunities to save more lives? J Int AIDS Soc. 2011 Jul 30;14:38.
- Braitstein P, Katshcke A, Shen C, Sang E, Nyandiko W, Ochieng VO, Vreeman R, Yiannoutsos CT, Wools-Kaloustian K, Ayaya S. Retention of HIV-infected and HIV-exposed children in a comprehensive HIV clinical care programme in Western Kenya. Trop Med Int Health. 2010 Jul;15(7):833-41. Epub 2010 May 14.

Brinkhof MW, Spycher BD, Yiannoutsos C, Weigel R, Wood R, Messou E, Boulle A, Egger M, Sterne JA; International epidemiological Database to Evaluate AIDS (IeDEA). Adjusting Mortality for Loss to Follow-Up: Analysis of Five ART Programmes in Sub-Saharan Africa. PLoS One. 2010 Nov 30;5(11):e14149. Egger M, Ekouevi DK, Williams C, Lyamuya RE, Mukumbi H, Braitstein P, Hartwell T, Graber C, Chi BH, Boulle A, Dabis F, Wools-Kaloustian K. Cohort Profile: The international epidemiological databases to evaluate AIDS (IeDEA) in sub-Saharan Arfica. Int J Epidemiol. 2011 May 18. [Epub ahead of print] **Project Name:** Joint Moi University-Indiana University International Ethics Review Committee Investigator(s): E. Meslin, D. Ayuku Start Date: **Project End** 9/15/2011 9/14/2011 Date: Site(s): MTRH, Moi University **Project** The intent of the project was to create and operate a Joint Ethics Review Committee between **Description:** Indiana University and Moi University (Eldoret, Kenya) that would be responsible for reviewing and approving research proposals undertaken jointly by these two universities, to provide training (in person and online) for committee members and reviewers, and to assess its capacity for ongoing success and sustainability. This project endeavored to establish the structural, ethical, and legal framework for a Joint Moi University-Indiana University International Ethics Review Committee (IU-Moi ERC) to provide timely and high quality ethical review of international collaborative research proposals. In particular we wanted to understand any regulatory or institutional impediments to establishing this first-ever committee. In addition, the project aimed to develop and provide specific training to prospective committee members, administrators, and staff to ensure competency in the assessment and review of collaborative international protocols. **Update:** Specific Aim 1. Establish the administrative structure and ethical/legal framework for a Joint Moi University-Indiana University International Ethics Review Committee (Moi-IU ERC) to provide timely and high quality ethical review of international collaborative research proposals. Sub Aim 1.1 Obtain the requisite regulatory and institutional authorization to establish this committee, including the National Council for Science and Technology in Kenya, the relevant U.S. regulatory authorities, and from both academic partners. This authorization would be confirmed in a Memorandum of Understanding involving relevant parties. Progress: Regarding Kenya, while regulatory and institutional authorization has not yet been forthcoming, we did acquire key information about the process by which such authorization would occur. In particular: (1) the NCST oversees all the research within the country and sets ethical guidelines on research involving human subjects; in this capacity is delegates authority to Kenyan ethics committees, and would therefore be the source to delegate authority to the proposed joint committee; (2) the legal framework for NCST is mandated under the Science and Technology Act of 1979. Moi's Institutional Research Ethics Committee (IREC) operates under delegated authority of NCST established under Cap 250, but is also supervised by the National Bioethics Committee (this was new information to us). Moreover, Kenyan ethics committees undergoes external audit both by the NCST and also other certifying bodies such as the Kenya Bureau of Standards (KBS). Discussions about the Joint ERC project are under active discussion at the NCST (Dr. Simon Langat), the National Bioethics Commission of Kenya (Dr. Karina Bhatt), and with Moi University. We expect that this process will take some months. Regarding USA, inquiries with OHRP's Office of International Affairs provided valuable insight for understanding the necessary regulatory steps for establishing a Joint IRB. We were assured that no specific regulatory barriers exist; indeed, one accepted view of the current Common Rule is that it anticipates new institutional arrangements for undertaking ethics review. On the other hand there are key

institutional decisions must be made that do have regulatory implications. Two of them are: (1) whether the new committee wishes to be considered a separate entity from either university, which would require taking certain steps to achieve 'business' status; and (2) determining whether to amend/revise the existing Federal-wide Assurances (FWA) that IU and Moi currently have or to negotiate a new FWA. In our view, these decisions are not technically difficult or hard to implement from the perspective of a US institution.

• Sub Aim 1.2 Construct a nimble and efficient administrative structure to coordinate all aspects of the Joint ERC including: hire a program manager, appoint co-chairs and members from both universities, and develop Standard Operating Procedures (SOP) to guide the actions of the Moi-IU ERC that satisfy best practices in international research ethics

Progress: Much progress has been made towards development of the administrative structure for the joint committee

- Hired a part-time Program Manager for the duration of the grant to coordinate all aspects of the IU component of the Joint ERC
- Established membership criteria
- Identified the IU-based members of the Joint ERC who were willing to serve, the identified the IU Co-Chair (Dr. Matt Johnson) and IU-Vice Chairs (Dr. Ken Fife, Dr. Ed Liechty)
- Conducted regular teleconferences of project team, staff and project investigators
- Liaised with counterparts at Moi to establish collaborative mechanisms for communication
- o Identified the Moi Co-Chair (Dr. Edwin Were)
- Confirmed the necessity for seamless real time communication using teleconference
- Provided a briefing to the Chair of the Kenya National Bioethics Committee (not identified in initial Aim).

We were not able to complete some of the other components of the administrative structure including:

- Update the Federal-Wide Assurances (FWAs) at both IU and Moi to include new ERC as appropriate (this requires more progress as described above)
- Drafting of applicable SOPs it was determined that until the Moi members of the committee had been identified, and Moi institutional approval granted it would be premature to develop a novel SOP.

Specific Aim 2. Develop and Provide Specific Training to Ensure Competency in the Administration, Assessment and Review of International Protocols

 Sub Aim 2.1 Develop ethics competency standards that will be required as a condition of membership on the new Moi-IU ERC and the training program to meet these standards. We will extend our existing R25-funded training workshops on 'Teaching Skills in International Research Ethics' to include specific components for committee members, reviewers and administrators.

Progress: Research ethics competency standards were established for prospective committee members via several methods:

- The existing R25-funded training workshop provided by the IU-Moi Academic Research Ethics Partnership, called 'Teaching Skills in International Research Ethics' (TaSkR) was extended to prospective committee members and included specific components for committee members, reviewers, and administrators. The TaSkR workshop offered in Indianapolis in April 12-14, 2011 had over 50 faculty, staff, students, as well as collaborative partners in attendance.
- An additional fourth day was convened April 15, 2011 designed as a specific training session for the Joint IU-Moi ERC. The format was geared towards developing competency in both substantive and procedural aspects of international research ethics review. A representative from OHRP was also in attendance. Sessions

focused on substantive issues were conducted with an emphasis on the background and history of international research ethics; the ethical foundations of international research ethics; Kenyan and U.S. laws, policies, and regulations; and customs, norms, and local values of indigenous populations. Procedural sessions were included to understand IU and Moi University's standard operating procedures; informed consent forms and processes; mechanisms for collaborative review, mechanisms for achieving consensus within the new IU-Moi ERC; and evaluating the committee. The session also featured a mock IU-Moi ERC review.

- In addition to the mock review undertaken at the April 15 training session, an additional 'mock' committee meeting/review was conducted from Eldoret. This and the prior review experience demonstrated the need for ongoing training, efficient communication mechanisms, and a clear assurance of procedural rules for convening the first-ever committee.
- Sub Aim 2.2. Develop an online training module that would be included within the suite of
 modules offered by the Collaborative Institutional Training Initiative (CITI) designed
 specifically for the IU-Kenya environment, to be used by IRB members, reviewers,
 administrators, and investigators at both institutions.

Progress:It was determined that a full module could not be developed and tested within our time period.

Significant Results

- A. Obtained a comprehensive understanding of the regulatory processes and procedures necessary for developing the IU-Moi Joint ERC. In the case of Kenya, we now understand better the nuanced mix of policy, custom and process between the NCST, the National Bioethics Committee, and Moi University that will need to be coordinated and harmonized before they can reach a decision about whether to delegate authority to a new/separate committee; or whether a different arrangement is necessary. In the case of the US, we now understand better the policy choices and decisions that face a US university that seeks to develop a new IRB in partnership with a foreign institution. As noted above. US regulations anticipate new institutional arrangements for undertaking ethics review, but that key institutional decisions are still required such as whether to amend vs. construct a new FWA; and whether the new joint committee ought to be a separate business entity with a new IORG code. To our knowledge this information had never been collected before. This analysis is now being prepared as a manuscript.
- B. Identified Members, Co-Chairs, Staff, Preliminary Procedures. We undertook several tasks to begin the process of constructing the joint committee including: agreeing to a committee of equal membership from each institution (8 + 8); identifying a 'pool' of willing faculty and staff at IU to sit on the committee, undertake reviews on its behalf and generally support the principle we were striving to accomplish; agreeing to a structure of two co-chairs (one from each institution) and at least one vice-chair from each institution; discussing a process for review/approval of protocols that minimizes the risks from a failure to appreciate the challenges of representation, majority/minority voting (e.g., protocols approved only with a minimum of 50% approval of 8 reps from each institution); and hiring a part-time Program Manager who undertook to facilitate regular teleconference communication between the teams and coordinated all activities during the course of the grant.
- C. Confirmed that the Challenges of Developing a Joint Ethics Review Mechanism are Unequally Allocated Between the Two Institutions. At IU, the challenges relate more to staffing, coordination, and decisions about the status of its FWA than to policy or US regulatory hurdles. Moi faces the same challenges as IU, but in addition must also address the university's relationship to the NCST and National Bioethics Committee, where concerns about national sovereignty and control over health research are more profound. Articulating the types of challenges that each institution faces and recognizing that the burden at one institution may be different at another is a critical component for any successful partnership

- especially those that depend on trust and collaboration like this one does.
- D. Clear Identification of Similarities and Differences Between IU IRB and Moi IREC. For the most part, Indiana University and Moi University share many similarities in scope, authority and activity regarding their respective review processes. Of particular relevance to this proposal is that IU and Moi each have FWAs. However, our analysis revealed a number of relevant institutional/process differences which distinguish the committee activities throughout the life cycle of ethics review that require harmonization. These topics include: pre-review process, membership issues, minutes, forms, internal office tracking/ database, meeting layout/format, terminology, and expedited review. On top of this, there are many logistics issues that also require attention (e.g., meeting by teleconference, time zones, quality of phone lines). Training and Ongoing Education. Although a final decision to establish this committee was not achieved during the grant period, we did make significant progress towards training prospective members and preparing the landscape the committee once it was approved. The following are examples of specific training activities we undertook during this project:
 - 1. Utilized our successful R25-funded Teaching Skills in International Research Ethics (TaSkR) workshop (trained 100+ individuals to date)
 - Dedicated an entire day to training members of the Joint ERC. This meeting followed the 2011 Indianapolis TaSkR III Workshop that included 50+ attendees from IU and Moi, including OHRP representative)
 - 3. IU provided separate training sessions (4 hours total, supplemented by CITI) for its IU-based members and staff
 - 4. Moi provided (and continues to offer) 'short courses' on research ethics to provide competency experiences for Moi faculty, many of whom will be approached to participate in the ethics review process
 - 5. Facilitated 'mock reviews' of existing protocols to provide real time review experiences

Project Name:	Low Risk Express Care			
Investigator(s):	K. Wools-Kaloustain, A. M. Siika, R. I	Kosgei, C. Yiannoutsos,	B. Musick, E. Sang	
Start Date:	11/1/2009	Project End Date:	1/31/2012	
Site(s):	All Sites			
Project	An assessment of the impact on pat	ient outcomes of intro	ducing the low risk express care model	
Description:	into the clinics.			
Update:	Working on a revision of the analysi	S.		
Project Name:	Modified Directly Observed Antiretroviral Therapy (M-DART): An intensive, nurse-directed,			
	home-centered, treatment strategy to reduce mortality and loss to follow-up in high-risk HIV-			
	infected patients initiating antiretroviral therapy.			
Investigator(s):	K.Wools, A.Siika, T.Murage, H.Thiru	murthy, S.Goodrich		
Start Date:	5/2/2011	Project End Date:	11/26/2011	
Site(s):	Port Victoria, Khunyangu			
Project	M-DART is a randomized clinical tria	I comparing the effect	iveness of a home-based modified	
Description:	directly observed antiretroviral (ART	Γ) treatment strategy t	o clinic-based standard of care in	
	patients with HIV/AIDS in Port Victoria and Khunyangu, Kenya. The aim is to reduce both			
	mortality and the number of patients lost to follow-up after ART therapy is initiated.			
Update:	IREC approved amendments to the	protocol version 1.2 in	August,2011.The amendments	
	included addition of objective numb	included addition of objective number 3 which seeks to determine patients' perception of quality		
	of life and stigma following impleme	entation of M-DART an	d addition of Co-Investigator(Suzanne	
	Goodrich) in view of objective numb	per 3. Enrollment of pa	atients started in August,2011.	

Project Name:	National Cancer Institute Suppleme	ent to East African leDI	EA: Improving Kaposi's Sarcoma and
	Lymphoma Diagnostics as Well as Assessing Kaposi's Sarcoma Incidence in Western Kenya.		
Investigator(s):	1	·	o, N. Buziba, T. Maurer, P. Loehrer, M.
	Strother, M. Czader, P. Leboit, T.	McCalmont	
Start Date:	8/20/2009	Project End Date:	7/31/2016
Site(s):	All Sites		
Project Description:	The toxicity and potential side effects of therapy for malignancy justify a standard of care in cancer medicine of tissue-biopsy. Further, an accurate assessment of the epidemiology of HIV-related malignancy requires reliable pathologic diagnosis. This study will help validate local pathology for the diagnosis of KS. The limited resources available to local pathology mandate that most diagnoses are made via H&E staining and immunohistochemistry which are techniques, like many pathology diagnostic tools, open to inter-observer variability in interpretation - thus the experience of the pathologist is a major determinant in diagnostic accuracy. Quality assurance efforts and continuing evaluation of diagnostic skills are routine practices in the United States to help ensure ongoing reproducibility between pathologists. The present effort will facilitate similar ongoing quality checks and thus increase the reliability of a biopsy-based diagnosis of Kaposi's sarcoma and lymphoma at the selected sites.		
Update:	Punch Biopsies are continually been done at the Oncology clinic, AMPATH Centre. Visiting clinicians continue to go to the Oncology sites namely, Busia, Chulaimbo, Kitale, and Webuye and Port Victoria. Currently 945 punch biopsies have been done both AMPATH and Non-AMPATH patients. Of These 851 are AMPATH patients'. 901 samples have been read and results available, 436(48.4%) turned positive for KS, 349(38.7) turned negative, and 116(12.9%) are indeterminate. Specimen samples are shipped to UCSF for a re-reads every 2-3 months. Data collection and entry continues. We now enter KS data on a secure online system called Quesgen.		
Project Name:	Novel drug formulations for pediate	ric TR	
Investigator(s):	R. Vreeman, W. Nyandiko, G. Knipp		nke. S. Avava
Start Date:	1/1/2009	Project End	6/30/2011
	, , , , , , , , , , , , , , , , , , , ,	Date:	
Site(s):	MTRH		
Project Description:	The aim of this study is to utilize the porcine model as a surrogate for human pediatric patient PK studies in order to develop a novel, fast-melt pediatric formulation of rifampicin that can be safely and efficaciously used to treat children diagnosed with tuberculosis. The primary objectives were: A) To develop novel orally disintegrating films (ODF) and tablets (ODT) formulations of rifampicin for the treatment of TB in infants and young children; and B) To compare the pharmacokinetic properties of rifampicin in juvenile pigs with those reported in the literature for human pediatric patients in an attempt to validate the juvenile porcine model as a human pediatric surrogate for preclinical pharmacokinetic and pharmacodynamic studies. Fastmelt film formulations were developed and tested according to the USP methodology. Dissolution and assay experiments were carried out according to the USP monograph for rifampicin capsules and selected film formulations. To determine the PK parameters of the dosage form, pigs were modified with a jugular catheter, externalized in the dorsal scapular region. Whole blood samples were collected using the Culex-L large animal automated blood sampling system, and plasma samples were analyzed by LC-MS/MS for rifampicin content.		
Update:	ODFs and ODTs of rifampicin have I undergoing characterization and or currently underway at various tempthese dosage forms are viable for references.	peen developed for pe otimization. Long term perature and relative h emote areas and deve	diatric administration and are currently chemical and physical stability tests are numidity conditions to determine if

	same formulation. Similarities in ph	armacokinetic narame	eters of rifampicin between juvenile
	pigs and human pediatric patients suggest that the pig may be a more predictive model for		
	performing PK studies. A poster presentation of the results of this study was made to the AAPS		
	Indiana/Ohio Discussion Group (I/ODG) on August 9, 2011.		
	, , , , , , , , , , , , , , , , , , , ,		
Project Name:	Optimal Combination Therapy Afte	r Nevirapine Exposure	
Investigator(s):	K. Wools Kaloustian, A. M. Siika, S.		no Ongʻor, J. Sidle
Start Date:	11/13/2006	Project End	2/26/2010
		Date:	
Site(s):	MTRH		
Project	A5208/OCTANE is a phase III study		
Description:	conducted concurrently. Both trial	•	•
	•		rsus protease inhibitor (PI)-based (Arm
	1		ent-naïve women. Trial 1 will evaluate
	the superiority of PI-based ART over		
	nevirapine (NVP) prophylaxis for m		· · · · · · · · · · · · · · · · · · ·
Update:	The study is closed to follow up. The		vomen with no prior NVP exposure.
Opuate.	,		ter single-dose nevirapine exposure. N.
	Engl. J. Med, 1533-4406, Vol 36		· · · · · ·
	_	· · · · · ·	er single-dose nevirapine exposure in
		• • •	ANE trial. AIDS,1473-5571, Vol 25, Issue
	4, Pages 479-92, Feb/20/2011		
	3. VF Boltz et al; Role of low-frequency HIV-1 variants in failure of nevirapine-containing		
	antiviral therapy in women previously exposed to single-dose nevirapine. Proc. Natl. Acad.		
	Sci. U.S.A., 1091-6490, Vol 108,	issue 22, pages 9202-7	7, May/31/2011
Project Name:	Patient-Reported Outcomes of Can	cer Care in Eldoret, Kei	nya
Investigator(s):	L. Hess, V. Naanyu, C. Asirwa		
Start Date:	10/14/2010	Project End Date:	7/1/2012
Site(s):	MTRH	Duto:	
Project		and subsequently impl	ement a standardized questionnaire to
Description:			ocial well-being (quality of life) during
-	and following cancer treatment. First, the instrument will be tested for validity in a cancer		
	patient population in Eldoret in a two-phase study. Second, it will be implemented into standard		
	data collection practices for routine clinical care for the validation study. Knowledge about the		
	quality of life of cancer patients in Eldoret will help us to understand the broader context of		
		d will help guide future	e strategies to improve comprehensive
	cancer patient care.		
Update:	Accrual to this study is ongoing. The	•	·
			ow up assessments. We will have to
	enroll additional participants to reach our goal of 120 patients with complete assessments for		
	the validation portion of the study.		
Project Name:	Pediatric ART Pharmacokinetics and	Adherence Feasibility	Study (also titled, Development and
i roject Haine.	Evaluation of a Tool to Measure Pe		
	Feasibility)	and the Mariet Crice to A	Trace I
Investigator(s):	R. Vreeman, W. Nyandiko, N. Busak	khala, S. Avava. L. Labb	e. E. Liechtv. T. Blaschke
Start Date:	4/1/2008	Project End	6/30/2012
	. ,	Date:	` `
•	·	•	•

Site(s):	MTRH		
Project		was to establish feasib	oility of pediatric pharmacokinetics (PK)
Description:	modeling, body water assessment, a		
			he PK parameters of nevirapine (NVP)
			parent volume of distribution, and half-
	-		of variation in NVP pharmacokinetic
	parameters, focusing on body comp	~	or variation in item pharmacokinetic
Update:	20 children were enrolled in the study and have completed all of the study procedures.		
	Participants underwent two inpatie	•	• •
	later. At each of these inpatient assessments, timed blood samples were drawn at 0, 1, 3, 8, and		
	-		a NVP was measured by a rapid enzyme
	immunoassay (ARK Diagnostics, Sun		
	implemented using the existing che	mistry analyzer in the	AMPATH reference lab in Eldoret,
	Kenya. The participants also receive	ed deuterium-labeled	water, allowing body water
	composition assessment from the ti	med plasma samples.	Serum proteins, anthropometrics, and
	saliva for CYP2B6 genotype analysis	were also collected. P	Participants also underwent 3-4 months
	of adherence monitoring, using Med		
	•	• •	tics modeling based on these data were
			nevirapine were determined. %H2O
	· ·	•	V% affected CL/F (p<0.05): a 30% lower
	The state of the s		es also tended to reduce CL/F. These
	findings suggest that, as weight increases, total body water percentage decreases and this		
	increases the clearance. Abstract was presented at the National Clinical & Translational		
	Research Education Annual Meeting, April 2009; 2nd International Workshop of HIV Pediatrics,		
	Vienna, Austria. July 2010; and AIDS 2010 Conference, Vienna, Austria. July 2010. Manuscript development underway and awaiting revised pharmacokinetics modeling.		
	development underway and awaiting revised pharmaconmetics modeling.		
Project Name:	Post-Crisis Evaluation		
Investigator(s):	K. Wools-Kaloustain, S. Ndege, S. Go	odrich Somi I Sidle :	and others
Start Date:	1/1/2009	Project End	2/29/2012
Start Bator	1,1,2003	Date:	2,23,2312
Site(s):	All Sites		
Project	Retrospective look at how AMPATH	dealt with the post Ele	ection violence, including a look at how
Description:	soon patients returned to clinic and	a case study of how tl	he Burnt Forest Clinic dealt with the
	Crisis.		
Update:	Collecting additional information an	d the response proces	ss. Requested additional data to the
	dataset as two sites were not repres	sented in the patient lo	evel data Mosoriot and Burnt Forest.
Project Name:	Qualitative Assessment of Barriers t	o Antiretroviral Thera	py Adherence among Adolescents
	(Qualitative Inquiry into Pediatric A	dherence)	
Investigator(s):	R. Vreeman, W. Nyandiko, C. Zeunik		
Start Date:	3/1/2007	Project End Date:	6/30/2012
Site(s):	MTRH, Turbo, Burnt Forest, Chulain	nbo	
Project			dividual key informant interviews with
Description:		-	T, older children on ART, and healthcare
	providers of children with ART. Obje	ective was to identify k	key factors sustaining children's
	adherence to ART in western Kenya	. This analysis focuses	on adolescent-identified factors
	impacting the experience of medica	tion-taking and creating	ng barriers and facilitators to
	adherence.		
Update:	In western Kenya, the need to maintain secrecy about ART emerged as a key theme related to		

	adalassant ART adharansa Wa nra	contad "I can't be free	to tall thom!: A qualitative assessment	
	adolescent ART adherence. We presented "I can't be free to tell them": A qualitative assessment of barriers to antiretroviral therapy adherence among adolescents in western Kenya' as a poster			
	presentation at the 2009 International AIDS Society meeting in Cape Town, South Africa. The			
	manuscript is under review at SAHARA-J.			
	manuscript is under review at SATIA	manuscript is under review at SARAKA-J.		
Project Name:	Pationing of Combination Antirotro	viral Thorany (cADT): 1	Impact on Marhidity Martality and	
Project Name.	_		Impact on Morbidity, Mortality, and	
Investigator(s):	Loss To Follow-Up in a Large HIV Tr		en, H. Liu, C. Duefield, G. Simiyu, B.	
investigator(s).	• •		en, n. Liu, C. Duelleid, G. Simiyu, B.	
Start Date:	Musick, J. Sidle, A. Siika, P. Braitstei	Project End	2/21/2011	
Start Date.	9/1/2006	Date:	3/31/2011	
Site(s):	All Sites	Date.		
Project		annrovimatoly 6 month	ns), Kenya experienced a shortage of	
Description:	HIV-related medications. The Unite	• •		
Description.	funded Academic Model Providing	• ,	•	
	_	· · · · · · · · · · · · · · · · · · ·	reed to limit the new cART starts to	
	_		TH continued to start new patients with	
	CD4<100 cells per cubic millimeter,	·	· · · · · · · · · · · · · · · · · · ·	
	-		of this retrospective analysis was to	
	determine the impact of the restric	•	· · · · · · · · · · · · · · · · · · ·	
	· ·	•	· · · · · · · · · · · · · · · · · · ·	
	conducted an analysis of all patients who were (i) non-pregnant adults (age 14 or older); (ii) enrolled either during the six-month period with restricted cART (the 'cap' period) or the six			
	months prior (the 'pre-cap' period);	•		
	standard, that is, (1) CD4 < 200; (2) WHO stage 4 illness; or (3) WHO stage 3 AND CD4 < 350. Primary endpoints are compared between the cap and pre-cap cohorts. Descriptive statistics are			
	used to summarize key variables. K	aplan-Meier estimator	s are used to estimate survival	
	probabilities. Cox proportional haza	ard model is used to ad	ljust for potential confounders.	
Update:	The analysis has been completed.	The manuscript is unde	er review at AIDS Research and	
	Treatment.			
Project Name:	REACH Informatics Center of Excellence			
Investigator(s):	P. Biondich, A. Siika, P. Braitstein, L. Diero, J. Sidle, S. Downs, J. Hogan, K. Kroenke, B. Mamlin, E.			
	Meslin, D. Ngare, W. Nyandiko, W. O'Meara, M. Overhage, M. Palakal, J. Rotich, C. Shen, R.			
	Vreeman, M. Were, K. Wools-Kalou			
Start Date:	6/1/2009	Project End	6/30/2014	
		Date:		
Site(s):	MTRH			
Project			niversities and the global leadership of	
Description:	the Regenstrief Institute. The proje			
	•	•	Moi University and Moi Teaching and	
	· · · ·		n technology to enhance research and	
	improve health care quality, efficien	-	and the second of the second	
	2. Support the training of East Afric	• • •		
		ks in low-income cour	ntries through didatic and mentored	
Undete-	practicum training programs.			
Update:	Events:			
	· ·	•	and attended by 18 participants largely	
	from KEMRI programmes in Kei			
	_	using on Data Quality a	and Assurance was held in July and	
	attended by 19 participants.	1.11.2		
i .	 Developers beginners training v 	was held in the months	of September and October. Attended	

	by 8 participants from Kenya and Uganda. AMPATH & Regenstrief developers facilitated the training.			
	Updates:			
	 Fellowship selection for 2012 is ongoing. Candidates will be selected by the end of December 2011. 			
	There are currently two fellows	hip students at Indiana	a with one engaged in research work in	
	Eldoret. –	•		
	• Sponsored 3 participants for the OpenMRS Implementers conference 2011 Planning for			
	short courses trainings for 2012			
	Challenges: There areinadequate f	acilities for training (v	enues/rooms) at the AMPATH Centre.	
5				
Project Name:	Reduce Alcohol First in Kenya Interv			
Investigator(s):	R. Papas, B.Gakinya, J.Baliddawa, J.S		2/24/2247	
Start Date:	4/1/2012	Project End Date:	3/31/2017	
Site(s):	MTRH			
Project	This study will determine whether a	• •	, ,	
Description:	· · · · · · · · · · · · · · · · · · ·	_	se among HIV-infected outpatients in	
	•		p health education intervention in a	
			ered by paraprofessionals, individuals	
	with limited formal education and little or no relevant professional experience. This approach is consistent with successful cost-effective models of service delivery in resource-limited settings in			
	which paraprofessionals (e.g., clinical officers, traditional birth attendants and peer counselors)			
	are trained.			
Update:	Interviews for RAs and counsellors were conducted in the month of October. Their contracts will			
-	be prepared in November and train	ing of the new staff wi	ill be held in December.	
Project Name:	Renal Study			
Investigator(s):	C. Wyatt, W. Owino Ong'or, K. Woo			
Start Date:	12/10/2007	Project End Date:	12/10/2012	
Site(s):	MTRH			
Project		•	estimate kidney functions to a direct	
Description:	measure of kidney functions based on the plasma disappearance of iohexol, following an			
l la dete	injection in HIV infected patients			
Update:	The study has been permanently closed to accrual after achieving the target number of			
	participants, and remains open for data analysis and manuscript preparation only.			
Project Name:	Screening for Cervical Cancer in HIV	-Positive Kenvan Wom	nen: The Role of Human Papillomavirus	
i rojoot rtainor	Typing	Tositive Kerryun vvon	ien. The Role of Hamair Lapinomavirus	
Investigator(s):	E. Dainty, E. Omenge, D. Walmer, S. Cu-Uvin, J. Carter, D. Westreich			
Start Date:	10/11/2011	Project End Date:	7/1/2012	
Site(s):	MTRH, Mosoriot, Turbo	Date:		
Project	Among HIV positive women in Keny	a, cervical cancer has	the highest incidence of any	
Description:	malignancy. In order to effectively s		•	
_	understanding of the natural history		*	
			I cancer. Emerging data supports the	
	existence of geographically disparat	• • • • • • • • • • • • • • • • • • • •	_	
	cancer in HIV positive women. Thi	,	e HPV genotype distribution in HIV-	
	infected Kenyan women with the fo	llowing objectives:		

	Objective #1: To describe the process cervical dysplasia and invasive of the process of the		types in HIV infected women with	
	7 -		HPV genotype distribution between	
	women with cervical dysplasia and cervical cancer. Samples for HPV genotyping will be			
	collected as one-time cervical s	wabs from patient end	ounters. These samples will be sent to	
	Innogenetics, a lab in Mombasa	Innogenetics, a lab in Mombasa, Kenya that is owned by collaborators from Belgium. Study		
		•	performing the HPV genotyping at the	
		-	I. Our hope is that we will be able to	
	introduce this test at Moi Teaching and Referral Hospital, and thus build the local capacity			
Undata	for diagnostics on site.	a avecated full a served	h. Cohmism. No maiorismissississis	
Update:	Enrollment started October 11. We concerns.	e expected full accrual	by February. No major issues or	
	concerns.			
Project Name:	Street Children & Substance Abuse:	Knowledge Attitudes	& Practices in Kenya	
Investigator(s):	L. Embleton, P. Braitstein, D. Ayuku		a Fractices in Kenya	
Start Date:	5/22/2011	Project End	1/1/2012	
		Date:		
Site(s):	MTRH			
Project	Objectives: To a) describe the know	• .	· · · · ·	
Description:	children and youth aged 10 to 19 in			
	alcohol use among this population; and c) describe factors associated with the use of all			
	substances used by street-involved children and youth in Eldoret, Kenya. Data obtained from this study will inform policy, programs and services directed towards street-involved children and			
			owards street-involved children and	
Update:	youth in resource-constrained setti Enrolling of subjects and data collection	_	analysis is on going	
opuate.	Enrolling of subjects and data conec	ction is complete. Data	analysis is on going	
Project Name:	Symptom Screening: Diagnostic Use	efulness to Detect Puln	nonary Tuberculosis in HIV-Infected	
_	Pregnant Women in Kenya			
Investigator(s):	E. J. Carter, R. J Kosgei, M. Ndavi, J	. O. Ong'ech, J. M. Ab	uya, A. M. Siika, K. Wools-	
	Kaloustian, H. Mabeya, T. Fojo, /	Kaloustian, H. Mabeya, T. Fojo, A. Mwangi, T. Reid, M. E. Edginton		
Start Date:	10/1/2009	Project End Date:	10/2/2011	
Site(s):				
Project	Published			
Description:	R. J. Kosgei, P. Muia Ndavi, J. O. Ong'ech, J. M. Abuya, A. M. Siika, K. Wools-Kaloustian, H.			
Update:	Mabeya, T. Fojo, A. Mwangi, T. Reic	•		
	diagnostic usefulness to detect puln	•	, ,	
		•	tp://dx.doi.org/10.5588/pha.11.0004	
	,		η γγ στι του εξή στου εξή μεται εξή στου εξή μεται εξή στου εξή μεται εξή στου εξή μεται εξή μεται εξή μεται ε	
Project Name:	The IU Simon Cancer Center (IUSCC) AMPATH-Oncology Ir	nstitute (AOI): An Exemplar of Care for	
-	the Developing World and a Population-Based Research Environment for IUSCC			
Investigator(s):	T. Inui, N. Busakhala, C. Asirwa, O. C	Omege		
Start Date:	7/1/2011	Project End Date:	6/30/2014	
Site(s):	Yet to be determined			
Project	Kenya, like much of the developing	•		
Description:			one in which the major causes of death	
	and disability are cancer and other			
	_		ome as relevant to Kenya as it is in the	
	United States. Similarly, what is lea	irned about the prever	ntion and treatment of cancer in the	

	developing world literally has direct relevance to care in the United States. Cancer care and attendant research in Kenya, whose population is the most genetically diverse in the world, will catalyze the discovery of new genes of importance to our fight against cancer, new genomic predictors of cancer, and new genetic variants that predict response to therapy. Recognizing both emerging threats to population health and potential for advancing care and science, the IU Simon Cancer Center (IUSCC) and the IU-Kenya AMPATH Program have been actively pursuing resources to respond. The focus of the partnership is to develop a sustainable and comprehensive academic clinical care program that will serve the citizens of western Kenya, and in the process, create a unique program of international collaboration for patients with, or at risk for, malignancies. The mission of the AMPATH Oncology Institute (AOI) is to be the premier cancer program in Sub-Saharan Africa, noted for excellence in cancer prevention, treatment and palliative care. AOI activities will directly contribute to advances in cancer care, accelerate discoveries in the biology and treatment of cancer, and provide support for the IU Simon Cancer		
Update:	Center's quest to become a federal This project has been activated adn		
	meetings. Pilot project protocols a	•	, 5 , 2 2 6 26
Project Name:	The Prevalence of Markers of Ather (heart) Failure	osclerosis Among Adu	t Patients with Congestive Cardiac
Investigator(s):	E.Velazquez, S. Kimaiyo,G. S. Bloomfield, J. E. Carter, M. Maghasi, C. Akwanalo, J. Hogan		
Start Date:	5/24/2010	Project End Date:	5/31/2012
Site(s):	MTRH		
Project	Using a case-control research design in a Kenyan population with heart failure, this project will		
	pilot data on the burden of atherosclerosis and malnutrition among patients with heart failure at Moi Teaching and Referral Hospital (MTRH) Inpatient ward, Primary Care and Cardiology Clinics, through the collection of both echocardiographic and serologic studies coupled with clinical assessments; thereby informing hypotheses for larger prospective, regionally-relevant analyses in the future.		
Update:	The study was amended in June 2011 to increase the number of participants by consenting and enrolling at least 40 more patients; to recontact study participants in order to collect blood samples for 4 (four) new blood tests in accordance with the study co-sponsor; and perform carotid ultrasonography. These amendments have been approved by all IRBs. We are waiting to receive final approval from the sponsor before recruitment continues.		
Project Name:	The Relationship of Indoor Air Pollution (IAP) Exposure to Isolated Right Heart Failure (IRHF) in Women in Western Kenya		
Investigator(s):	C. Sherman, S. Kimaiyo, J. E. Carter,	J. Hogan, D. Lagat, L. [Diero
Start Date:	11/22/2010	Project End Date:	1/31/2012
Site(s):	MTRH		
Project Description:	This pilot study aims to look at the association of Isolated Right Heart Failure (IRHF), pulmonary function abnormalities and Indoor Air Pollution in women in western Kenya. The information gained will be utilized for the preparation of a larger study as well as harm reduction strategies for the reduction of IAP.		
Update:	•	n area reached by 60 r	nen who are current smokers only and minutes of driving from MTRH. Data