Background: Though HIV prevalence in refugee settlements in sub-Saharan Africa is usually unknown, the majority of refugees come from neighboring countries where HIV prevalence is high. In Nakivale Refugee Settlement in southwestern Uganda, there are 64,000 refugees from 12 countries. The prevalence of HIV is unknown. We implemented a routine HIV testing program in Nakivale and examined factors associated with new HIV diagnosis.

Methods: From Mar-Sept 2013, research assistants routinely offered free HIV-testing to all clients in the Nakivale Clinic Outpatient Department while they waited for their clinic visit. Tested participants were surveyed to obtain demographic information, mode of transport and travel time to clinic. We compared variables for HIV-infected clients and clients not infected with HIV using the Wilcoxon rank sum and Fisher's exact test (continuous, categorical data). We used a logistic regression model to identify predictors of a new diagnosis of HIV-infection among those tested. Findings: Over the 6-month intervention,155 (4.4%) of 3,558 individuals tested were identified with HIV infection. Compared to those without HIV infection, HIV-infected clients had a similar median age (30 vs 29, p=0.3), were more likely female (68% vs 56%, p=0.0047), less often refugee (41% vs 71%, p < 0.0001), and had longer median travel time to clinic (90 min vs 60 min, p < 0.0001). Of those tested, males were 0.56 times as likely, those not traveling to clinic on foot were 1.65 times as likely, and those taking longer to reach clinic were 1.07 times (per 15 minutes of travel time) as likely to be found HIV-infected. Likelihood of testing as HIV-infected was significantly associated with country of origin. People from Uganda had the highest prevalence among the individual countries reported, with 93/1,069 (8.7%).

Interpretation: In a routine HIV screening program in a refugee settlement in Uganda, Ugandan nationals are at higher risk than most refugees tested. Decentralized testing throughout the refugee settlement may help to identify more individuals with HIV that live further from a health clinic. Given the close physical proximity of refugees and the surrounding Ugandan nationals, future studies should aim to discern if there is HIV transmission and HIV viral mixing among these populations.

Funding: Harvard University Center for AIDS Research (NIH/ NIAID 5P30AI060354-10), Harvard Global Health Institute. Abstract #: 02CD021

Exploring barriers and facilitators to HIV+ MSM and TG/ Hijra in anti-retroviral treatment (ART) adherence in Mumbai, India

C. Pina¹, V. Patel², S. Mengle Rawat³, A. Dange³, U. Jadhav³, R. Chhabra⁴; ¹Albert Einstein College of Medicine, Bronx, NY/US, ²Montefiore Hospital, New York City, NY/US, ³Humsafar Trust, Mumbai, IN, ⁴Albert Einstein: Preventive Intervention Research Center, Bronx, NY/US

Program/Project Purpose: In Mumbai, India, HIV prevalence among men who have sex with men (MSM) is disproportionality higher compared to the general public at 9.91% in 2013 (vs < 1% in the general population). 1 While India's National Aids Control Organization (NACO) funds some HIV prevention and modest linkageto-care interventions for MSM to partially address these high rates, there are very few, if any current national programs for HIV+ MSM and Transgender (TG) populations including interventions to support antiretroviral (ART) adherence. 2 Information to guide adherence interventions for HIV+ MSM/TG are almost nonexistent. Objective: To obtain formative data on ART adherence and explore potential factors influencing adherence in HIV+ MSM and TG/ Hijra in Mumbai. Structure/Method/Design: We conducted a cross-sectional, interviewer administered survey Hindi among HIV+ MSM/TG currently accessing services/programs at the Humsafar Trust (HST) – India's largest LGBT organization in Mumbai between July 23, 2014 and August 23, 2014. An interdisciplinary team of researchers, peer outreach workers, and counselors adapted the survey instrument from existing scales. Adherence was measured by self-report using previously validated questions in India. Barriers assessed were ART side-effects, depression (CES-D10), self-efficacy (GSE), internalized homophobia, and medication beliefs. Eligibility included being HIV+ male or TG/Hijra 18 years and older, ever having sexual contact with other men or transgender females (male-to-female), on ART, and able to provide informed consent. We used descriptive statistics and chi-square tests to analyze the data.

Outcomes & Evaluation: Of the 50 participants completing the survey, 66% self-identified as 'gay,' 14% bisexual, and 20% TG/ Hijra, the mean age was 39.9, 38% were married to women, and 98% received free ART from government health centers. Only 44% reported being fully adherent in the past 1 month and similarly at 3 months. Over half (52%) the participants were clinically depressed, 56% reported that being attracted to men was a personal shortcoming, and 16% have tried to become attracted to women. While most participants had favorable views towards ART, over half reported that medications disrupted their lives (52%). In this exploratory study, we found that adherence correlated with older age (p=.001), believing that their health depended on the ART (p < .01), and feeling depressed (p=.03).

Going Forward: Adherence was very low among MSM/TG in this sample and there were high rates of comorbid mental health issues. Future interventions should explore addressing depression, stigma, and medication beliefs to improve ART adherence among HIV+ MSM/TG in Mumbai, India.

Funding: Global Health Program at the Albert Einstein College of Medicine.

Abstract #: 02CD022

Effects of a community-based HIV risk reduction intervention among HIV-positive individuals: Results of a quasi-experimental Positive Living with HIV (POLH) study in Nepal

K.C. Poudel¹, D.R. Buchanan², K. Poudel-Tandukar¹; ¹School of Public Health and Health Sciences, University of Massachusetts Amherst, Amherst, MA/US, ²1) School of Public Health and Health Sciences, University of Massachusetts Amherst, MA, USA; 2)The Institute for Global Health, University of Massachusetts Amherst, MA, USA, Amherst, MA/US

Background: Although there is evidence that risky sexual behaviors among HIV-positive individuals is common, no theory-based intervention has been tested to improve psychosocial factors associated with safer sex in resource-limited countries in Asia. Our study evaluated the effects of a theory-based intervention in changing HIV transmission knowledge, threat and coping appraisals, and condom use intentions among HIV-positive individuals in the Kathmandu Valley, Nepal.

Methods: For this quasi-experimental investigation, we recruited 152 male and 125 female HIV-positive individuals from clientele receiving services from five non-governmental organizations working with HIV-positive individuals in the Kathmandu Valley, Nepal. After matching, the NGOs were randomly assigned to the treatment and control arms of the study, thus resulting in 146 participants in the intervention group and 131 individuals in the control group. The intervention group received six sessions on sexual risk reduction