Methods Thirty-three asymptomatic, reproductive-age women selfcollected mid-vaginal swabs every 3rd day for 16 weeks (998 samples). Participants reported behaviours and menstrual data on daily diaries. Bacterial communities were determined by pyrosequencing of barcoded 16S rRNA genes (V1-V2 region). Participants were clustered into five community classes based on temporal patterns of vaginal bacterial community composition using transition probabilities. A linear mixed effect model for the log of Jensen-Shannon rate of community change was utilised. The model accounted for correlations between samples from the same participant and was adjusted for time-varying confounders and normalised menstrual cycle time.

Results Three of the community classes were most often dominated by Lactobacillus iners, L crispatus, or L gasseri, respectively, while two lacked significant numbers of *Lactobacillus* spp. The latter classes were split into subtype A typified by Corynebacterium, Anaerococcus, Peptinophilus, Prevotella, and Finegoldia, while those of subtype B showed a higher abundance of the genus Atopobium. The rank abundance and species composition of bacterial communities in some women changed markedly over short periods of time while others were relatively stable. Classes dominated by L crispatus and L gasseri experienced the fewest fluctuations in community composition, and communities that lacked significant number of Lactobacillus spp. also demonstrated some stability. Vaginal communities dominated by L iners demonstrated either a lack of constancy or notable stability. The menstrual cycle was associated with temporal dynamics, but these effects were influenced by bacterial community class. Sexual activity the day prior to sampling was of borderline statistical significance (p=0.065) and is a variable of interest in supplementary modelling. **Conclusions** Vaginal microbiota can fluctuate rapidly. Future studies should investigate the role of temporal changes in vaginal microbiota on sexually transmitted infection risk. Longitudinal studies of the vaginal microbiome may allow for the future development of targeted individualised therapeutic approaches.

Health services and policy poster session 1: Stigmatisation and Mental Health

P5-S1.01 PERCEPTIONS AND PRACTICES OF EMPLOYERS OF LABOUR IN IBADAN NORTH LOCAL GOVERNMENT AREA **TOWARDS PERSONS LIVING WITH HIV/AIDS**

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The epidemic of HIV and AIDS constitute one of the major challenges to development worldwide. The disease condition reduces the productivity of Persons Living with HIV and AIDS (PLWHA) in the labour force and imposes a huge socio-economic burden on employers of labour. In Nigeria, employers of labour's perceptions and practices relating to HIV and AIDS have not been adequately explored. This study therefore determined public and private employers of labour's perceptions, practices and attitudes to persons who are living with HIV and AIDS in Ibadan North Local Government Area, Oyo state, Nigeria. The study was cross-sectional in design. A multistage sampling technique was used to select 400 study participants in the public (38) and private (362) sectors for interview. The instrument for data collection was a pre-tested semistructured questionnaire. Data were analysed using descriptive statistics and the χ^2 test. There were more males (68.2%) than females (31.8%) among the participants. A majority, (79.0%), of the participants in the public sector (PuS) and 72.9% in the private sector (PrS) knew that an infected healthy looking person could harbour and transmit HIV to others. Overall, deep kissing (89.8%) topped the list of perceived mode of transmission of HIV; blood transfusion was mentioned by 46.3% of the participants while

unprotected sex (30.4%) was the least mentioned. The listed ways of preventing HIV were: use of condom (85.9%); avoiding deep kissing (71.3%); keeping one uninfected sexual partner (21.2%); and sexual abstinence (15.4%). Avoidance of unscreened blood transfusion (6.2%) was the least mentioned means of transmitting HIV. The perception of 77.0% of the entire participants was that HIV and AIDS do not reduce workers' productivity. A majority, (80.0%), of which 2.3% with no formal education, 1.0% primary education, 13.5% secondary education, 41.5% HND/B.Sc, 21.0% postgraduate and 0.8% with other qualifications were of the view that workers infected with HIV and AIDS should not be sacked. Slightly less than half (48.0%) would keep their staff's HIV status secret while more than half, (57.0%), would not recruit a PLWHA. More than half of the participants, (56.5%), expressed a positive attitude to staff who is a PLWHA. More respondents in the private sector, (47.8%), claimed to have ever organised HIV and AIDS-related educational programmes for their staff than those in the public sector (42.1%) (p<0.05). Almost equal number of participants in the public (36.8%) and private (36.2%) sectors would require mandatory test for HIV before employment. Only 1.8% of participants in the PuS and 6% in the PrS (p<0.05) reported that their organisations had a workplace HIV and AIDS policy. Although the participants would tolerate staff with HIV and AIDS, their perceptions are indicative of limited knowledge about the mode of transmission and prevention of HIV. Health education strategies such as training and workplace HIV and AIDS education are needed to address these shortcomings.

P5-S1.02 sexual risk behaviours and mental health CONCERNS AMONG HIV-INFECTED MSM

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Background Some HIV-infected MSM are at risk for acquisition and transmission of STDs because of ongoing high risk sexual behaviours. HIV-infected MSM also can experience psychosocial stressors and related mental health issues. We assessed the association between STD risk behaviours and the desire to discuss mental health issues, as reported by HIV-infected MSM currently receiving care in HIV clinics.

Methods In 2007, 426 HIV-infected MSM receiving care in eight urban HIV clinics were randomly selected to complete a survey that queried them about risk behaviours and health concerns. We estimated the percentages who answered that they wanted to discuss their mental health with their clinicians, by sexual behaviour and substance use in the past year. Differences in percentages of patients were considered statistically significant if the two tailed p value was ≤ 0.05 using a χ^2 test.

Results 90% of patients had initiated care for their HIV infection more than a year ago. In the year preceding the survey, 74% had multiple sexual partners, 75% engaged in anal intercourse, 48% had at least one HIV-uninfected partner, and 82% used illegal psychoactive drugs. Among those who reported anal intercourse, 39% did not use a condom during the most recent episode. Among patients, 70% wanted to talk with their clinicians about how they felt mentally or emotionally. Patients who engaged in unprotected receptive anal sex were more likely to want such a conversation than those who did not engage in unprotected receptive anal sex (80% vs 62%, p<0.01); those who engaged in unprotected insertive anal sex were also more likely to want a discussion (81% vs 63%,

Conclusions Although the vast majority of these patients had been in treatment for more than a year, a large percentage of patients

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engaged in substance abuse and sexual behaviours that increase their risk of HIV transmission, and STD transmission and acquisition. Such patients were more likely to want to discuss their mental health concerns than those who did not engage in these behaviours. These findings underscore the importance of interventions to decrease risky sexual behaviour and to promote clinical assessment of mental health needs for this patient population. A mental health assessment can identify patients who might need greater psychosocial support or referral for treatment of substance abuse and underlying mental illness.

P5-S1.03 HIV STATUS DISCLOSURE IN FAMILY AND DETERMINANTS OF STIGMATISATION IN A **CONSERVATIVE SOCIETY**

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Background National AIDS control of Pakistan and its development partner Canadian Government CIDA is seeking for effective AIDS surveillance. However, prevailing illiteracy and conservative societal norms are challenging factors in preventing HIV spread. Factors which lead to behavioural changes among people if they have been told of their HIV positive status are complicated and directly related to self-esteem and personal liberation.

Methods We evaluated this complex phenomenon with an aim to identify factors that prevent a person to disclose his/her HIV status to family members. Effort was also made to characterise determinants of prevailing stigma at society level for HIV positive and PLHA. Self structured questionnaire with binary and multiple response items was used for data collection. Multivariate logistic regression was used to identify significant predictors of stigma at family and societal level.

Results A total of 412 subjects (178 females and 234 males) were included in the study. Family level anticipated stigma items that were significantly associated with HIV test refusal were family perception, life partner perception, family break-up and neglect by family. Social indicators for prevalent stigmatisation were losing job and livelihood, bad treatment by the healthcare worker and difficulty in finding marital partner of choice (Abstract P5-S1.03 table 1). **Conclusions** The study concludes that prevailing stigma is the major hindrance for running effective AIDS surveillance program. Clinical programs to prevent HIV infection must be integrated with psychiatric care service as a policy to improve awareness and peoples' willingness for HIV testing.

Abstract P5-S1.03 Table 1 Association of HIV stigma with test refusal at personal level as predictors of family and social stigmatisation

Dependent variable	Adjusted OR for HIV test refusal	95% CI	p Value
Life partner perception	2.15	0.92 to 3.64	< 0.001
Family perception	1.42	1.12 to 2.85	< 0.01
Family break-up	1.16	1.02 to 2.88	< 0.05
Neglect by family	1.83	1.32 to 2.41	< 0.01
Social stigma indicators			
Losing job	1.72	1.22 to 3.74	< 0.01
Livelihood loss	1.05	0.29 to 0.65	< 0.001
Health worker treatment	1.22	1.23 to 4.67	< 0.05
Marital life entry fallout	2.41	0.39 to 2.16	< 0.05

P5-S1.04 THE IMPACT OF PELVIC INFLAMMATORY DISEASE ON SEXUAL, REPRODUCTIVE AND PSYCHOLOGICAL HEALTH

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Background and Aim Pelvic inflammatory disease (PID) is a condition commonly attributable to chlamydia infection. This qualitative study sought to explore the sexual, reproductive and psychological impact of this condition.

Methods In depth, semi-structured interviews were conducted with 23 women diagnosed with PID. Both symptomatic and asymptomatic women were recruited from primary and tertiary healthcare services. Interviews were conducted with women from 2 to 12 months post-diagnosis in order to explore short and longer term psychological responses and experiences. A brief, self-report questionnaire containing demographic items was also completed by all women. Interview analysis was conducted using an inductive, thematic approach.

Results Nearly all women experienced some form of distress when they received their diagnosis, and the emotional impact of their diagnosis was generally prolonged. Women typically experienced emotions such as shock, sadness or anger. At the time of diagnosis, women frequently had little or no knowledge of PID and continued to experience confusion about their condition post-diagnosis. Some women reported that PID had created conflict in their intimate relationships or had impacted on the level of intimacy they shared with their partner. Almost all women reported that their sexual behaviour had changed dramatically post-diagnosis. The possibility of being infertile stood out for women as their greatest health concern and nearly all women reported changes to their health behaviours since their diagnosis.

Conclusion The findings of this study indicate that a diagnosis of PID can have significant psychosocial implications for the diagnosed individual. Recommendations for healthcare professionals are proposed.

Health services and policy poster session 2: Circumcision

P5-S2.01 SURVEY ON KNOWLEDGE, ATTITUDE AND PRACTICES ON MALE CIRCUMCISION IN RWANDA

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Background WHO/Joint United Nations Program on AIDS (UNAIDS) has recommended adult male circumcision (AMC) for the prevention of heterosexually acquired HIV infection in men from communities where HIV is hyper endemic and AMC prevalence is low. The aim of this study was to provide evidences on knowledge and attitudes of non-circumcised men with regard to MC, and to determine the willingness to be circumcised among Rwandan men aged 15-59 years.

Methods This cross sectional study was part of a large survey conducted in Rwanda in January 2010 by the Ministry of Health, to assess knowledge, attitudes and practices regarding MC in the general population (KAP). The data were collected independent of religions and participants were recruited from all of the five provinces of Rwanda and 29 out of 30 districts were covered The data were