INTEGRATED BEHAVIOURAL AND BIOLOGICAL ASSESSMENT

Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

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KARNATAKA State Summary Report

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Bill & Melinda Gates Foundation provided funding support for this study through Avahan: the India AIDS Initiative. The views expressed herein are those of the author(s) and do not necessarily reflect the official policy or position of the Bill & Melinda Gates Foundation and Avahan.

Suggested Citation

Integrated Behavioural and Biological Assessment (IBBA): State Summary Report for Karnataka, Karnataka Health Promotion Trust, 2013

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List of Abbreviations

AIDS	Acquired immune deficiency syndrome	NACO	National AIDS Control Organization
ANC	Antenatal clinic	NACP	National AIDS Control Program
ART	Antiretroviral therapy	NARI	National AIDS Research Institute
BMGF	Bill & Melinda Gates Foundation	NGO	Non-governmental organization
CCS	Conventional cluster sampling	ORW	Outreach worker
CAB	Community advisory board	PLHA	People living with HIV/AIDS
CBO	Community based organization	PPS	Probability proportional to size
CMB	Community monitoring board	PSU	Primary sampling unit
FSW	Female sex worker	RPR	Rapid plasma reagin
HIV	Human immunodeficiency virus	SACS	State AIDS Control Society
HRG	High-risk group	SLP	State lead partner
IBBA	Integrated behavioral and biological assessment	SOP	Standard operating procedure
ICMR	Indian Council of Medical Research	STD	Sexually transmitted diseases
ICTC	Integrated counseling and testing centre	STI	Sexually transmitted infections
IDU	Injection drug users	TI	Targeted intervention
КНРТ	Karnataka Health Promotion Trust	TPHA	Treponema Pallidum Hemagglutination Assay
KP	Key population	VCTC	Voluntary counseling and testing centre
MSM	Men who have sex with men		



The Integrated Behavioural and Biological Assessments (IBBAs) in Karnataka was a collaborative effort of various partner organizations. We take this opportunity to extend our sincere appreciation to all those who have contributed to the successful completion of this work.

We gratefully acknowledge the immense help provided by the National AIDS Control Organisation (NACO). We also thank the Karnataka State AIDS Prevention Society (KSAPS) for their support extended during all of the IBBA rounds.

The NGOs and CBOs implementing the programs in the districts helped with the smooth conduct of the IBBAs by supporting the Community Advisory Boards (CABs) and Community Monitoring Boards (CMBs). We would like in particular to acknowledge the support of Pragati (a consortium of Swasti and Swati Mahila Sangha (SMS)), Action Aid, MYRADA, Birds and Ashodaya Samithi. The support of local government administrative officers, including from the health and police departments is highly appreciated.

The Community Advisory Board and Community Monitoring Board members need special acknowledgement, as without their support, help and monitoring of the work, it would not have been possible to undertake this work. We also acknowledge the support extended by the peer educators and the outreach staff of the various HIV prevention programs during the field work.

We would also like to acknowledge the survey team members, including team supervisors, lab technicians and field interviewers, who carried out the field work around the clock. We also thank the KHPT administrative, finance and regional teams for extending their time and support in logistics and quality assurance during the survey work.

We acknowledge the support extended by the National AIDS Research Institute, Pune, and by Family Health International 360 (FHI 360), and their guidance throughout the work. We also appreciated the active involvement and contribution of the Bill & Melinda Gates Foundation during the study period and thereafter, for facilitating the use of the study findings for improving program strategies.

Last, but not least, we thank all the participants of the surveys for their support and cooperation, without which the IBBA work would not have been completed.

Foreword

Karnataka State is considered to be one of the high HIV prevalence states in India, with a substantial sex trade that is felt to be one of the epidemic drivers. To respond to the HIV epidemic and to mitigate its impact, the National AIDS Control Organisation (NACO) of India has implemented HIV prevention and care programs, along with many partners, including Avahan, the India AIDS Initiative of the Bill & Melinda Gates Foundation. In the context of the Avahan program in Karnataka, a series of integrated behavioural and biological assessments (IBBAs) were conducted to measure the impact of Avahan's interventions among female sex workers and their clients, and among men who have sex with men (MSM) and transgenders (MSM-T). Three rounds of surveys were conducted among female sex workers in the state, and two rounds of surveys were conducted among MSM-T and among clients of female sex workers during the project period.

The main findings of these surveys are presented in this summary report. Apart from STI and HIV prevalence, the report provides data on important knowledge, behavioural and programmatic parameters, including sexual history, sexual partners, condom use, knowledge of STIs and HIV, and exposure to programs. Implementing this series of IBBAs across 5 districts was a challenge, particularly given the hidden nature of the populations involved. This work would not have been possible without the active support of Bill & Melinda Gates Foundation, and the active involvement of many stakeholders, particularly the NGOs, CBOs and community members among whom the surveys were conducted.

This report should be helpful to those involved in planning, implementing and evaluating HIV/AIDS prevention and care programs, and in addressing the future needs of HIV prevention and care in Karnataka and elsewhere.

Stephen Moses, MD, MPH

1 BACKGROUND

The first HIV case was reported in India in 1986. HIV prevalence has steadily increased ever since, and is significant among the 'high risk' populations now. This 'high-risk' population comprises groups, such as, Female Sex Workers (FSWs), Men who have Sex with Men (MSM), and Injecting Drug Users (IDUs). Targeted interventions (TIs) have been directed towards these key populations through the National AIDS Control Programme (NACP) to prevent and manage HIV/AIDS. The National AIDS Control Organization (NACO) through the State AIDS Control Societies (SACS) has implemented sentinel surveillance using unlinked, anonymous HIV sero-prevalence surveys to monitor the prevalence and spread of HIV since 1994. Six states have been identified as high-HIV prevalence states - Tamil Nadu, Karnataka, Maharashtra, Andhra Pradesh, Manipur, and Nagaland - based on HIV prevalence of greater than 5 percent among high-risk groups and more than 1 percent amongst women attending ANC clinics.

Karnataka has 6 HIV high prevalence districts with HIV positivity with more than 1% in ANC sites (provisional prevalence for HSS 2010) and 13 districts with more than 5% positivity in HRG sites (provisional prevalence for HSS 2010). As a part of the National AIDS Control Program (NACP) of the National AIDS Control Organization (NACO), Karnataka has been conducting the HIV Sentinel Surveillance since 1998 with the provisional prevalence for 2010 being 0.69% among general population. There is significant decline in adult HIV prevalence in the state - from 1.5% in 2003 and 2004 to less than 1% (0.69%) in 2010. Further, declining prevalence among women in the age group 15-24 probably indicates halting of new infections. More importantly, HIV positivity among the antenatal clinic (ANC) attendees has declined to 0.24% and among general clients to 4% as evidenced by data from in the Integrated Counseling and Testing Centers (ICTCs). However, HIV prevalence is 10 or more times higher among various high risk groups.

Avahan, the India AIDS Initiative of the Bill and Melinda Gates Foundation (BMGF) was started in India in 2003 with the aim of slowing down the HIV epidemic through focused, integrated, large-scale prevention programs providing saturated coverage to key populations. Avahan focuses on FSWs and their clients, MSM, Hijras (transgendered persons) and IDUs in over 83 districts in the six high prevalence states and National Highways. The program, which was initiated in Karnataka in December 2003, is implemented through a consortium of partner non-governmental and community-based organisations. The program implemented in 18 districts in the state and since October 2009, Avahan programme is under transition phase in Karnataka and by March 2012 all the interventions being transitioned to the government.

As part of the monitoring and evaluation of the project, a series of Integrated Biological and Behavioural Assessment (IBBA) was planned among core and bridging in selected districts in Karnataka. The major evaluation questions for the project centre on understanding the impact of targeted interventions on HIV transmission both within the core and bridging group themselves, as well as in the general population. The Integrated Behavioral and Biological Assessment (IBBA) survey is a major component of the overall evaluation strategy to measure and understand the impact of the Avahan intervention on HIV transmission dynamics among the key populations. The evaluation was designed to measure the effect of the program on populations most at-risk in terms of coverage, and monitor the changes in risk behaviors as well as prevalence of STIs and incidence of HIV. The IBBA data is useful for reflection of program implementation and midcourse corrections in program strategies as necessary. The data is also be used in mathematical modeling by the project - Monitoring and Evaluation of the Avahan project in India.

In Karnataka, IBBA is carried out in 5 districts: Bellary, Belgaum, Bangalore Urban, Shimoga and Mysore. It is carried out in four population groups: FSWs, MSM-T, clients of female sex workers, and pregnant women attending designated antenatal clinics. IBBA among FSWs are carried out thrice in the project period, whereas that among MSM T and client of female sex workers carried out twice with at least two years of interval between two rounds of surveys.

Timing and sample coverage of IBBAs, Karnataka

District		Time of survey	Sample coverage			
District	R1	R2 R3		R1	R2	R3
Female sex workers						
Bellary	Nov/05	Aug/08	Nov/10	422	410	400
Belgaum	Oct/05	Jul/08	Sep/10	363	396	423
Shimoga	Aug/05	Sep/08	Jul/11	390	406	393
Mysore	Aug/04	Dec/06	Apr/09	429	425	425
Bangalore	Jul/06	Feb/09	Aug/11	673	694	718
Men sex with men and trans	genders					
Belgaum	Jul/08	Oct/Nov 2011	NA	246	199	NA
Bellary	Aug/08	Nov/11	NA 100		71	NA
Shimoga	Jul/08	Nov/11	NA 9		88	NA
Mysore	Jul/08	Feb/12	NA	100	100	NA
Bangalore urban R2	Jul/06	Dec/09-Jan/10	NA 31		388	NA
Clients of female sex worker	s					
Belgaum	Oct-Nov/07	Dec-2011/Jan-2012	NA	408	407	NA
Bellary	Oct-Nov/07	Dec-2011/Jan-2012	NA	424	398	NA
Shimoga	Nov-Dec/07	Nov-11	NA	426	377	NA
Bangalore Urban	Sep-Oct/07	Jan/Feb-2012	NA	680	675	NA
Mysore	Oct-Nov/08	Apr-12	NA	425	425	NA
Bagalkot	Jan-Feb/10	NA	NA	427	NA	NA

Timing of IBBA and interval between baseline and follow-up surveys, Karnataka

District	Date program start	Date baseline IBBA(R1)	Gap between program start and baseline IBBA	Date 1st follow- up IBBA (R2)	Gap between the 2 rounds of IBBA (R3)	Date 2nd follow-up IBBA (R3)	Gap between the 3 rounds of IBBA (R3)
Belgum	April 2004	Oct 2005	16 months	July 2008	33 months	Sept. 2010	27 months
Bellary	Aug 2004	Nov2005	14 months	Aug 2008	33 months	Nov. 2010	27 months
Shimoga	Aug 2004	Aug 2005	12 months	Sept 2008	37 months	June 2001	34 months
Mysore	Jan 2004	Aug 2004	8 months	Dec 2006	27 months	Oct 2009	34 months
Bangalore Urban	Oct 2005	July 2006	10 months	Feb 2009	31 months	July 2011	29 months
Bangalore Urban-MSMT	Oct 2005	July 2006	10 months	Jan 2009	42 months	NA	NA
Bellary, Msore, Belgum, Shimoga-MSMT	April 2006	Sept 2008	28 months	Oct 2011	36 months	NA	Na

Response rate of baseline and follow up surveys, IBBA

	Belgaum	Bellary	Shimoga	Mysore	Bangalore	Bagalkot	Total	
FSW	FSW							
Baseline	84%	89%	90%	100%	85%	NA	88%	
Follow-up(1)	92%	95%	99%	100%	94%	NA	95%	
Follow-up(2)	98%	98%	95%	100%	97%	NA	98%	
MSM T								
Baseline	83%	85%	89%	100%	56%	NA	73%	
Follow-up (1)	74%	61%	92%	88%	79%	NA	78%	
Clients of FSWs								
Baseline	76%	85%	89%	100%	70%	90%	82%	
Follow-up (1)	93%	90%	87%	100%	89%	NA	92%	

Objectives

The specific objectives of the IBBA were:

- their interventions.

IBBA Partners

IBBA in Karnataka is implemented by KHPT in collaboration with University of Manitoba, Center Hospitalier affilie' universitaire de Quebec, Laval University, Canada and St. John's Medical College, Bangalore. In order to ensure standard protocols and questionnaires, KHPT conducts IBBA in Karnataka in close consultations with the National AIDS Research Institute (NARI), Pune, the national nodal agency for IBBA, and Family Health International (FHI), the recipient of Avahan grant to carry out IBBA outside Karnataka.

Three rounds of IBBA among FSWs, two rounds of IBBA among MSM and male clients of FSW have been completed in the state of Karnataka. The current report presents an overview of the methodology of the surveys in all the rounds and following this the salient findings at the state level among each of the high risk groups covered in IBBA in the state.

1. To measure the major outcomes and impact of the interventions funded by BMGF under the Avahan Initiative by collecting behavioral and biological trend data in populations targeted by the interventions; 2. To make available data that can be used for estimating sizes of populations targeted by the project; and

3. To make information available to other partner organizations under Avahan for modeling the impact of

2 METHODOLOGY

2.1. Study design

In Karnataka, the IBBA was implemented in 5 of the 16 districts of Avahan intervention. Two key criteria were used to select districts for the IBBA: (1) Socio-Cultural Region (SCR) and (2) size of the female sex worker (FSW) population. The requirement was to have representation of each of the different SCRs within a state to ensure heterogeneity in terms of social, economic, and cultural characteristics. Within an SCR, districts with the highest number of FSWs were chosen.

Figure 1 : District map of Karnataka



Female Sex Workers (FSW)

Eligibility criteria for female sex workers were that they should be female, 18 years or older, and had sold sex in the exchange of money in the last one month. The types of sex workers are distinguished by the place of solicitation (Table 1; Fig. 1).

Table 1: Operational definition of female sex workers

Туре	Definition
Home- based FSW	Any female, 18 years or older, how sold sex in exchange for cash at lea up) clients. Clients come to her by
Brothel- based FSW	Any female, 18 years or older, bro brothel areas) who sold sex in ex a place other than place of FSWs of FSWs earnings. A brothel gene or the clients are brought into the is available at the brothel most of
Public places- based FSW	Any female, 18 years or older, Pu such as streets, parks, railway sta sex in exchange for cash at least o without controls from the pimps
Lodge/ dabha – based FSW	Any female, 18 years or older, Lodge who sold sex in exchange for cash at while staving in a lodge or hotel or d

High risk MSM (MSM)

Men above age 18 who frequent the MSM cruising sites included in the survey. The spots include Hamams and public places. This group does not include Hijras (Nirvana) and akwa (Satla Kothis - men who dress as women). The group includes Kothis, Panthis and Double Deckers who have sex with other men.

Clients of FSW

Men aged between 18 and 60 years recruited from the spot selected for the survey, who have paid cash in exchange for sex at least once in the past one month are defined as clients of FSWs. Clients at the various FSW solicitation points, including home based, brothel based, lodge based and public place based sites, were covered.

2.2. Key areas of inquiry

IBBA assessed the key risk behaviors and STIs related to the spread of HIV. For biological assessment, blood and urine samples were collected for measuring the prevalence of STIs, including HIV. Information obtained through the behavior questionnaire included:

- Socio-demographic characteristics
- Sexual history and practices (penile-vaginal, oral, anal)
- Types of sex partners
- Condom use with different type of sex partners
- Knowledge of STIs and STI care-seeking behaviors
- Knowledge and attitudes toward HIV/AIDS
- > Sex purchasing and selling behaviors among males with other males
- Questions related to mobility
- Exposure to Sankalp and other HIV/AIDS prevention interventions

ne based (soliciting male clients at her usual place of residence), who st once in the last one month. She does not go out to solicit (pickword of mouth or a broker may get them.

othel-based (working/living/operating in brothels in red light / change for cash at least once in the last one month. A brothel is usual residence, under a Garhwali or an agent who receives part erally has more than one sex worker. Clients come to the brothel e brothel through a network of pimps or brokers. The sex worker f time.

ablic places- based (soliciting male clients on the public places tions, bus stands, market places and cinema halls), who sold once in the last one month. They mostly operate individually, , brokers, etc.

e/dabha - based (soliciting male clients in lodge or hotel or a dabha), least once in the last one month. The sex worker practice sex work abha and does not have to go out to bring clients

Needle, syringe and drug sharing practices among IDU (and other groups who may inject such as FSWs)

Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV 5

2.3. Preparatory activities

State-level consultative discussions were held with local stakeholders including KSAPS and NGOs working with key populations in order to take their inputs on implementation issues, sharing experiences of previous round of IBBA, and to identify locations for data collection. Research instruments including questionnaires and consent forms, field guidelines, and laboratory SOPs were adapted from the previous round with minor modifications. Guidelines for handling adverse events, and ensuring safety and confidentiality of data were also developed. Community preparation was an integral part of the IBBA which was carried out to understand and address the concerns of stakeholders, gatekeepers, and community members in the survey.

2.4. Ethical issues and consent process

The statutory approval for the conduct of IBBA and its protocol is obtained by the Health Ministry's Screening Committee (HSMC), under the auspicious of Indian Council of Medical Research (ICMR), New Delhi. Ethical approval for IBBA is obtained from the Institution Ethical Review Board of St. John's Medical college and Hospital, Bangalore, University of Manitoba and Laval University, Canada. All biological testing was 'linked anonymous', meaning that respondents were informed of, and gave voluntary consent for, each test that was to be performed on any of their specimens, but the results could not be traced back to the individual who provided the specimen. Behavioral data was also anonymous; however biological data could be linked to behavioral data for each individual through the ID number. The project followed strict guidelines to protect the rights of respondents including confidentiality of the data. All respondents were selected at random and the chosen ones were informed about the purpose and procedures for the study, and were given the option to withdraw at any time.

2.5. Sampling

Sample sizes for each population sub-group included in this survey have been calculated on the basis of expected baseline value of key indicator, i.e. consistent condom use, the magnitude of change that is desired to detect in the key indicator, confidence level, statistical power and design effect.

The main protective behaviors of interest to Avahan included use of condom. Therefore, many of the variables measured in the IBBA (all rounds) revolved around these behaviors. The number allowed for detection of a difference of 10-15 percent or more from the assumed value of 50 percent with 95 percent confidence (5 percent probability of type I error), and 90 percent power (10 percent probability of type II error), for indicators such as consistent condom use, and last-time condom use. A design effect of 1.7 was assumed for cluster sampling and 1.5 for respondent driven sampling methods.

A probability-based method was used in all groups and in all districts covered in the IBBA. The choice of method for individual key populations was dependent on the behaviors, soliciting patterns, visibility, and size of the population. Depending on the type of sex work sites, two different methods of sampling is adopted for the selection of clusters in the first stage: Conventional Cluster Sampling (CCS) method in case of home-based, brothel-based, lodge-based and dabha-based sex work sites; and Time-Location Cluster Sampling (TLCS) method for street-based (public places based) sex work sites (Table2).

Sampling frame development exercise was carried out by survey teams with the help of NGOs, members of the key population, and other stakeholders. In all districts the list of sex work site validated by NGOs/CBOs was collected. In general, a two-stage cluster design was used in districts with CCS and TLCS methods. The primary sampling units were selected by systematic random sampling (without replacement) by probability proportional to size (PPS). In selected clusters, respondents were selected through simple random sampling. The information needed to calculate selection probabilities and weights, refusal rates, and non-response rates was recorded in the cluster information sheet.

Table 2: Surveys Conducted in Karnataka

District	FSWs	Clients of FSWs	MSWs	Pregnant women
Belgaum	400	400		1000
Bellary	400	400	400	1000
Shimoga	400	400	400	1000
Mysore	400	400		1000
Bangalore Urban	800 (400 street based and 400 non-street based)	800 (400 clients of street based FSWs and 400 clients of non- street based FSW)	400	1000

2.6. Biological components of IBBA

Biological assays were carried out through a network of laboratories at two levels:

- and protocols.

Key biological indicators included:

- HIV prevalence.
- ▶ HIV incidence (BED-CEIA validated for Indian sub-type C)

The biological samples were collected from the study participants as follows:

- Blood and urine samples collected by a laboratory technician.
- genital ulcer.

Table 3: Biological samples and tests performed for determining an infection in IBBA

Sr. No.	Name of the disease/symptom	Sample	Tests	Criteria for clarifying as positive
1	HIV	Serum	Detect and confirmed by Genedia	Positive by both the tests
		Dry blood spot	Detect and confirmed by Genedia	Positive by both the tests
		Urine	Calypte EIA confirmed by Western Blot	Positive by both the tests
2	Active syphilis	Serum	RPR ¹ with TPHA ²	Positive by both the tests
3	High titre	Comun	DDD with TDUA	Positive by both the tests plus
	syphilis	Serum	KPK with IPHA	a titre ratio of 1:8 or higher
4	Chlamydia	Urine	Repeat CT test for positives	Both tests are positive
5	Gonorrhoea	Urine	Aptima repeat for positive	Positive in first test only
6	HSV-2	Serum	Focus 1 test	Positive

The biological samples were transported from the field site laboratory to the state laboratory maintaining the cold chain between 40-80 C by using frozen gel packs.

1 Rapid Plasma Reagin 2 Treponema Pallidum Hemagglutination Assay

> State level- St. John's Medical College and Hospital, Bangalore and TTK Blood bank, Bangalore

> District level - Laboratories were identified in each district and the staff were trained on the procedures

> STI prevalence (syphilis serology, N. gonorrhoeae (Ng), C. trachomatis (Ct), herpes simplex virus (HSV) 2 serology, and T. pallidum (Tp), H. ducreyi (Hd) and HSV-2 antigen detection for those reporting ulcers), and

> An ulcer swab that was collected by a medical officer only from those respondents who reported an external

2.7. Biological assays

Blood samples and dried blood spots were brought daily to the district laboratory. Serum was extracted from whole blood specimens. The district lab also conducted the RPR tests for Syphilis, and communicated the results along with the study numbers to the project linked clinic at the districts. The serum was frozen at -200 C, or kept at 40 C for a maximum of 3 days before being transported to St. John's Medical College

The serological diagnosis of syphilis is performed demonstrating the presence of specific antibodies to Treponema pallidum. Rapid Plasma Reagin (RPR) test by Span Diagnostics Ltd. for syphilis antibodies was carried out in the district laboratory. Seroprevalence of HIV infection was determined by using two test algorithms at the state laboratory: (1) screening test - Micro Elisa - HIV by J. Mitra & Co. Pvt. Ltd. on all sera samples; (2) confirmatory test - Genedia HIV 1/2 ELISA 3.0 by Greencross Life Sciences Corp. on those sera samples for which the Micro Elisa test results were positive. BED-CEIA was applied for identifying recent HIV infections (HIV Sero-incidence) among those found reactive for anti-HIV antibodies by both Micro Elisa and Genedia ELISA tests. Gen-Probe APTIMA Combo 2 was used for detecting Neisseria gonorrhoeae and Chlamydia trachomatis.

2.8. Implementation of survey

A five-day training workshop was held to orient the various field staff on their specific roles. In addition, all individuals involved in the IBBA were trained in community sensitization, harm minimization and some basic information about HIV, AIDS and STI. Multiple field teams were formed in each district consisting of a supervisor, community liaison staff, laboratory technician, interviewers, and a clinician. The study coordinator was responsible for the entire operation, including the recruitment of the respondents from the selected sites on each day of the survey by following a pre-determined recruitment protocol. Appropriate syndromic treatment were given to the participants as per the standard treatment guidelines followed in the state. The trained laboratory technician collected blood and urine samples from the respondents at site based clinics and maintained record of all the collected samples against unique code numbers that were used on the questionnaires as well as the containers having biological specimens. Data collection was carried out in each district within the scheduled field work plan.

Monitoring was done at every level to ensure that the IBBA survey was conducted in strict adherence to the approved protocol. RPR tests carried out at the state laboratory and results were shared with the participants maintaining the anonymity of respondents. For the assays carried out in the state laboratories, 10 percent randomly selected samples were retested on a separate aliquot at the central laboratory. For Gen-Probe APTIMA Combo 2 assay, all positive samples and 5 percent of all negative urine samples were retested at NARI. All the serum samples after testing were stored at -200C, while the serum vials for QC were stored at -700C at NARI Pune. For storage of IBBA samples, a separate sample tracking system was developed and all the samples were stored group-wise in a -200C freezer room.

2.9. Data management and analysis

Double data entry was carried out using CSPro (version 3.1) software. Maximum accuracy was ensured by matching the two separately entered files and correcting the mismatches. The data was subjected to routine quality control checks and inconsistencies sorted out through discussions and cross-verification with original documents. The verified data were used for statistical analysis. SPSS 20.0 and Stata 11.0 software were used for data analysis. Findings have been presented in the results section using frequencies and percentages. Statistical significance has been indicated wherever applicable. Cross tabulations of some key variables across socio-demographic variables have been provided as annexure.

The IBBA survey covered the entire district of Bangalore, even though the Avahan intervention program had covered only a segment of the district. Further, the geographic coverage remained same across all the rounds of the survey to have consistency in the survey coverage across rounds and therefore, any scale up of intervention within the district is not accounted in the IBBA. Though the sample size of 400 per district was adequate to provide sufficiently precise estimates for high prevalence indicators, such as condom use, it may be inadequate to precisely estimate other indicators, such as, HIV or STI prevalence. Aggregation of data across districts will represent only the IBBA districts, and so any generalization to the overall situation in the state or even in all the Avahan districts in the state should be avoided. The sample size for the MSM T survey in 4 districts (Belgaum, Shimoga, Bellary and Mysore) was fixed at 400 treating it as a single survey. Therefore, the indicators presented at district level for the MSM T survey may have a higher confidence interval.

3 KEY FINDINGS

This chapter presents the findings of the survey into three sections, one for each HRG groups (FSW, MSM T and Clients of FSWs). The first section discusses the socio-demographic, behavioural, and program exposure indicators along with biological indicators (HIV and STI) among female sex workers, the second the third sections discusses the same of MSM T and client of female sex workers respectively,

3.1. Female Sex Workers (FSW)

Socio-demographic characteristics

Typology of FSWs

The usual place of solicitation as reported by respondents is classified into four categories: Home-based, Brothelbased, public places-based and phone-based. The recent survey shows that a large proportion of the respondents reported that they receive their clients from public places (including bus stand, railway station, park, streets, market places, cinema theatres, etc.) followed by home, except in Shimoga and Bangalore urban district, where the majority of the respondents receive their clients using Phone followed by public places.

Figure 2: Distribution of FSWs by typology for IBBA Round-3



The proportion of FSW soliciting in home and brothel/lodge declined from R-1 to R-3 in all the districts, except Mysore district. The proportion of FSWs who solicited from public places decreased from R-1 to R-3 in three districts, except Belgaum and Bellary districts. The proportion of FSWs who solicited from Phone increased in all the districts, which is more than 50% in Shimoga and Bangalore districts (Table 4).

Table 4: Typology of FSWs (Percent)

		Belg	aum]	Bellary	y .	S	himog	<u>ja</u>	Bang	alore u	ırban		Mysor	e
	R1	R2	R3	R3 (R)	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
Home	29.2	20.2	18.1	19.4	61.6	48.6	37.5	53.9	51.9	12.7	15.4	28.9	6.4	11.7	5.5	27.5
Brothel	33.6	24.0	9.8	NA	7.0	15.4	3.7	5.2	0.2	1.6	4.1	7.3	1.4	0.5	3.8	4.1
Public Place	37.2	52.6	60.5	69.0	31.5	34.0	47.1	40.4	33.3	30.1	80.5	52.5	34.7	87.9	90.7	67.6
Phone	0.0	3.0	11.6	11.6	0.0	2.0	11.7	0.0	14.6	55.6	0.0	11.2	57.5	0.0	0.0	0.8
N	386	402	423	225	427	411	400	394	406	393	676	756	718	429	425	425
R1=Rout	nd I: R	2=Rou	nd II:	R3=Rc	ound II	Ι										

Age

The mean age of the FSWs was broadly similar across the various districts surveyed (31 years to 34 years) in the third round of IBBA. A large proportion of FSWs in all the districts were in the age group of 35-39 years except in Mysore where a large proportion of FSWs were in the age group of 25-29 years in the third round of IBBA. About 2% of the respondents in Belgaum, Bellary and Bangalore Urban districts and less than 2% of the respondents in Mysore and Shimoga districts are under age 20 years, and about 21% to 24% of the FSWs in Belgaum (23%), Bellary (21%) and Shimoga (24%) are in the age 40 years and above which is about 15% in Bangalore Urban and Mysore districts in the third round of IBBA (Table 5).

Figure 3: Distribution of FSWs by age for IBBA Round-3





There is a decline in the young sex workers (age <20 years) over three rounds of survey in all the districts. Proportion of FSWs in the age group of 20-24 years declined in Belgaum and Shimoga districts, increased in Bellary district and remained more or less same in Bangalore urban and Mysore districts over three rounds of survey. Proportion of FSWs in the age group of 35-39 years increased in all the districts except Mysore where there is slight decrease over three rounds of surveys.

Table 5: Age distribution of FSWs (Percent)

	Belga	aum			Bella	ry		Shim	oga		Banga	alore u	rban	Myso	ore	
	R1	R2	R3	R3 (R)	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
<20	3.9	3.2	1.8	0.8	4.6	5.9	2.0	2.4	0.9	0.0	4.3	3.8	2.1	1.9	1.8	1.2
20-24	12.4	7.4	9.7	10.4	15.9	18.7	16.4	15.6	10.2	7.5	17.2	21.3	16.5	17.7	12.8	16.7
25-29	25.6	21.1	21.3	26.2	25.7	19.4	19.1	22.8	21.4	21.7	22.4	21.5	23.1	28.7	23.6	30.5
30-34	16.7	19.2	17.8	19.6	18.9	15.7	17.4	20.6	20.2	22.9	21.4	18.4	18.3	21.0	24.4	19.3
35-39	19.9	24.9	26.8	25.6	21.6	18.1	24.0	20.6	23.1	24.1	22.5	21.7	25.1	18.2	25.0	17.6
40-44	16.4	11.2	13.7	12.3	6.4	13.0	15.2	11.7	13.6	14.2	8.2	9.3	9.6	9.3	9.6	9.0
45+	5.0	13.0	9.0	5.0	7.0	9.2	5.9	6.3	10.7	9.5	4.0	4.2	5.3	3.3	2.8	5.7
Mean Age	31.2	33.6	33.1	32.1	29.7	31.2	32.2	31.7	33.3	33.9	30.7	30.7	31.7	30.0	31.3	30.5
Median Age	30.0	34.0	34.0	31.0	29.0	30.0	32.0	31.0	33.0	34.0	30.0	30.0	32.0	30.0	30.0	30.0
N	386	402	423	225	427	411	400	394	406	393	676	756	718	429	425	425

Literacy and Education

More than two-third (66%) of the respondents in all the districts are illiterate except in Bangalore Urban district where 46% of the respondents are illiterate in the third round of IBBA. About 16-23% of respondents have completed Middle schools in all the districts which is little higher in Bangalore Urban (31%) in the third round of IBBA. 20% of the respondents in Bangalore Urban and 11% in Mysore have completed Secondary schooling which is 9% in Shimoga and less than 6% in Belgaum and Bellary districts (Table 6).

Illiteracy had decreased over three rounds of survey in Belgaum and Mysore districts and remained more or less same in Shimoga and Bangalore urban over three rounds of survey. However, illiteracy is increased from 66% in R-1 to 74% in R-3 in Bellary district.

Table 6: Educational attainment of FSW (Percent)

		Belg	gaum			Bellary	7	S	himog	a	Bang	alore u	ırban]	Mysore	e
	R1	R2	R3	R3(R)	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
Illiterate	82.0	78.1	70.6	75.8	66.1	76.7	73.8	61.5	56.5	63.5	47.8	49.6	45.7	75.5	74.9	68.4
Primary	4.7	6.7	4.8	5.9	11.7	4.0	5.7	9.1	10.0	4.2	4.8	5.1	3.0	3.0	3.7	2.4
Middle	10.4	12.5	18.7	16.8	15.7	13.2	16.2	18.9	24.2	22.7	27.5	30.8	31.2	14.7	13.2	17.9
Secondary and above	2.6	2.7	5.9	1.5	6.0	5.7	4.4	9.9	9.2	9.1	17.6	14.4	19.9	6.5	7.9	11.2
Ν	385	402	423	225	425	409	400	392	406	392	662	756	717	428	424	425

Current marital status

A large proportion of FSWs in all the districts are currently married in the third round of IBBA. Nearly one-third of the respondents in Belgaum and Shimoga districts, 20% in Bellary, 26% in Bangalore Urban and 14% in Mysore are either widowed, separated or deserted in the third round of IBBA. Less than 5% of the FSWs in Belgaum, Shimoga and Bangalore Urban districts reported that they are unmarried in the third round of IBBA. 35% of the FSWs in Bellary, 16% in Belgaum Urban and 25% in Belgaum Rural reported their marital status as others who are most likely to be Devadasi.

Figure 4: Distribution of FSWs by current marital status - IBBA Round-3



Table 7: Marital status of FSW (Percent)

	Belga	um			Bella	ry
	R1	R2	R3	R3(R)	R1	
unmarried	24.9	21.2	4.9	0.7	29.5	
currently married	17.4	36.4	41.6	41.7	23.0	
separated/ widowed/ deserted	38.5	33.2	37.4	33.0	37.0	
Others	19.1	9.1	16.1	24.7	10.5	
N	386	402	423	225	427	

Living status of FSWs

About 55% of the respondents in all the districts reported that they are living with a partner in the third round of IBBA which is significantly increased in all the districts from round 1 to round 3 (Table 8).

Table 8: Living status of FSW (Percent)

	Belga	um			Bella	ry		Shim	oga		Bang	alore u	ırban	Myso	ore	
	R1	R2	R3	R3 (R)	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
living alone	75.0	63.0	43.4	48.1	68.3	54.1	43.2	54.7	46.3	46.7	56.7	45.4	41.9	58.5	64.0	41.1
living with partner	25.0	37.0	56.6	51.9	31.7	45.9	56.8	45.3	53.7	53.3	43.3	54.6	58.1	41.5	36.0	58.9
Ν	386	402	423	225	427	411	400	394	406	393	676	756	718	429	425	425

Shimoga Bangalore urban Mysore R2 R3 R1 R2 R3 R1 R2 R3 R1 R2 R3 8.1 3.2 2.1 5.2 8.3 3.8 7.7 16.7 13.3 15.4 8.8 36.0 45.0 50.1 65.6 43.2 59.6 70.2 41.5 42.7 72.5 39.7 25.8 19.9 46.6 46.7 32.3 51.5 32.1 26.0 50.8 40.2 13.9 19.1 35.4 0.3 0.0 0.0 0.1 0.0 0.0 0.0 0.4 0.4 411 400 394 406 393 676 756 718 429 425 425

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Sex work details

Duration in sex work

Duration in sex work is calculated as the difference between current age and the age at which the respondent started sex work. The respondent FSWs are in sex work for about 9 years in Belgaum and Bellary districts, and in other three districts they are in sex work for about 5 years in the round three of IBBA. The mean age at start of sex work in

Mysore, Bangalore Urban and Shimoga Figure 5: Mean age of FSWs at sexual debut, start of sex work and district is little higher (about 28 years) duration in sex work: IBBA Round-3 than in Bellary and Belgaum districts (about 24 years) in the third round of IBBA. The respondents were sexually active for almost 9 years in Belgaum, Bellary, Mysore and almost 12 years in Bangalore Urban and Shimoga, before they entered in to sex work in the third round of IBBA.





IBBA. Similarly, a high proportion of FSWs in Shimoga, Bangalore urban and Mysore districts are in sex work for 2-4 years in the third round of IBBA.

The proportion of FSWs with less than two years in sex work decreased significantly from IBBA round 1 to round 3 in all the districts. The proportion of FSWs with 2-4 years in sex work increased in all the districts from IBBA round 1 to round 3. Similarly, the proportion of FSWs with 5-9 years in sex work is more or less same in R-1 and R-3 in Belgaum, Bellary and Shimoga districts and increased in Bangalore urban and Mysore districts (Table 9).

Table 9: Duration in sex work among FSW (Percent)

		Belg	gaum]	Bellary	r	S	himog	ga	Bang	galore u	ırban	1	Mysore	e
	R1	R2	R3	R3(R)	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
< 2 year	16.3	10.9	10.8	6.0	12.6	16.1	7.6	20.0	17.8	13.6	32.7	32.2	28.1	25.4	16.9	9.7
2-4 years	19.1	21.3	29.1	28.8	26.1	22.8	28.6	33.9	39.0	39.7	37.0	39.6	38.5	40.3	32.1	50.6
5-9 years	23.3	25.2	22.3	24.5	25.5	25.8	28.0	26.0	23.6	29.2	17.6	15.0	23.4	18.9	23.6	30.2
10+years	41.3	42.6	37.8	40.6	35.9	35.3	35.9	20.1	19.6	17.5	12.7	13.3	10.0	15.4	27.4	9.5
Mean duration in sex work	9.5	10.4	8.4	9.2	7.1	8.4	8.9	5.6	5.5	5.0	3.8	4.1	4.1	4.5	6.4	4.6
Ν	385	402	423	225	426	411	400	394	406	393	676	756	718	429	424	425

Client volume

A majority of the sex workers in Belgaum and Bellary districts had ten or more clients in a typical week, whereas in other three districts majority of the sex workers had 5-9 clients in a typical week in the third round of IBBA.

The proportion of FSWs who had ten or more clients in a typical week remained more or less same in Belgaum, Bellary and Mysore districts, slightly increased in Shimoga (15% to 19%) district and significantly declined in Bangalore urban (42% to 34%) district from IBBA R-1 to R-3 (Table 10).

Table 10: Number of clients of FSW - Typical week (Percent)

		Belg	gaum]	Bellary	r	S	himog	ga	Bang	alore u	ırban	1	Mysore	9
	R1	R2	R3	R3(R)	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
<=4	14.1	8.5	13.6	27.4	25.5	7.2	21.1	51.7	18.4	33.0	20.9	26.8	24.0	28.4	24.3	23.9
5-9	23.8	22.5	28.5	26.7	28.6	21.2	32.6	31.2	29.0	47.9	34.3	35.0	42.2	38.0	35.1	43.8
10+	61.3	69.0	57.9	45.9	45.5	71.2	46.0	14.9	52.6	19.2	42.3	38.1	33.8	29.4	39.3	32.3
DK/CS	0.9	0.0	0.0	0.0	0.4	0.3	0.3	2.1	0.0	0.0	2.5	0.1	0.0	4.2	1.3	0.0
Mean clients per week	14.9	14.8	12.1	10.3	13.9	18.4	11.4	5.5	10.7	6.7	9.6	9.2	9.4	7.9	8.9	7.6
Ν	386	402	423	225	427	411	400	393	406	393	676	756	718	429	425	425

Knowledge indicators

Knowledge of HIV prevention methods

Respondents identifying consistent condom use as a method of reducing the risk of contracting HIV were regarded as having knowledge of HIV prevention. There is a significant increase in the proportion of FSWs with knowledge of HIV prevention from IBBA R-1 to R-3 except in Belgaum district where it is almost same in IBBA R-1 and R-3 (Figure 6).

Figure 6 Knowledge of HIV prevention method among FSWs (Percent)





Knowledge of STI symptoms

More than two-third (66%) of the respondent in Belgaum, Shimoga, Bangalore districts, 59% in Bellary and 98% in Mysore districts knows at least two symptoms of STI among women in the third round of IBBA. The proportion of FSWs knowing at least two STI symptoms among men ranged from 15% in Shimoga to 60% in Mysore in the third round of IBBA.

Proportion of FSWs knowing at least two STI symptoms among women increased in all the districts except in Bangalore urban from IBBA R-1 to R-3. Similarly, proportion of FSWs knowing at least two STI symptoms among men increased in IBBA R1-1 to R-3 in Belgaum and Mysore (R2 to R3), decreased in IBBA R-1 to R-3 in Shimoga and Bangalore and remained almost same in IBBA R-1 and R-3 in Bellary district (Table 11).

Table 11: Knowledge of STI symptoms among FSW (Percent)

		Belg	aum]	Bellary	7	S	himog	a	Bang	alore u	ırban	1	Mysore	e
	R1	R2	R3	R3 (R)	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
know at least two symptoms of STI among women	57.0	72.9	66.2	51.3	50.4	77.6	58.6	50.8	69.8	68.4	75.6	60.7	72.5	NA	96.1	97.9
know at least two symptoms of STI among men	30.9	38.9	42.8	22.3	24.7	35.6	24.5	23.4	22.7	15.3	39.1	30.3	23.2	NA	44.9	59.8
Ν	386	402	423	225	427	411	400	394	406	393	676	756	718	429	425	425

Behavioral indicators

Sexual partners

Most of the FSWs reported having occasional clients and regular clients in the third round of IBBA (occasional clients ranging from 82% to 98% and regular clients ranging from 78% to 93%). About two-third (66%) of the respondents reported having regular non-paying partner in the third round of IBBA in all the districts except Mysore district.



Figure 7: Distribution of FSWs by sexual partners: IBBA Round-3

Proportion of FSWs who reported having occasional clients decreased in all the districts except Mysore from IBBA round one to round three. Similarly, proportion of FSWs who reported having regular clients decreased in all the districts except Bangalore urban district. It was also observed that the proportion of FSWs reported having regular non-paying partner increased in IBBA round one to round three in Belgaum (52% in R-1 to 71% in R-3) and Bellary (64% in R-1 to 67% in R-3) districts, decreased in Shimoga (72% in R-1 to 65% in R-3) and Mysore (68% in R-1 to 28% in R-3), and remained more or less same in Bangalore Urban district (69% in R-1 to 68% in R-3) (Table 12).

Table 12: Sexual partners of FSW (Percent)

		Belg	gaum]	Bellary	τ	S	himog	ga	Bang	galore ı	ırban	1	Mysore	e
	R1	R2	R3	R3(R)	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
Have Occasional Client	99.6	98.7	92.5	82.7	88.9	96.0	82.6	95.9	82.6	83.1	98.0	90.5	84.1	93.2	98.5	97.5
Have Regular Client	96.6	83.2	89.3	92.9	97.5	78.8	88.9	98.0	86.2	93.6	88.1	77.8	90.1	89.7	73.1	77.9
Have Regular Non- Paying Partner	52.4	56.5	71.3	61.0	64.3	53.3	66.5	72.1	61.7	64.5	69.0	63.1	67.8	68.1	39.0	27.5
Ν	386	402	423	225	426	411	400	394	406	393	676	756	718	429	424	425

Condom use

A large proportion of FSWs used condom last time they had sex with occasional clients in the third round of IBBA (ranging from 91% to 99%). Similarly condom use with regular client during the last sex was also high among FSWs in the third round of IBBA (ranging from 89% to 96%). The proportion of FSWs using condom with regular nonpaying partners during last sex varied from 18% (Bangalore Urban) to 65% (Belgaum) in the third round of IBBA.

Figure 8: Last time condom use among FSWs by type of sexual partners: IBBA Round-3



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The proportion of FSWs used condom last time they had sex with occasional clients significantly increased in all the districts from IBBA round one to round three (ranging from 75% to 96% in R-1, and 91% to 99% in R-3). Similarly, condom use with regular clients during the last sex is also increased in all the districts from IBBA round one to round three. The proportion of FSWs using condom with regular non-paying partners during last sex increased in Belgaum, Bellary and Mysore district and significantly decreased in Shimoga and Bangalore Urban districts from IBBA round one to round three (Table 13).

Table 13: Last time condom use by FSWs (Percent)

	With	Occas	sional	Client	Wi	th Reg Client	ular	With Pay	Regular ing Part	Non- Iner	With pay	o Other ing par	non- tner		Mysor	e
	R1	R2	R3	R3(R)	R1	R2	R3	R3(R)	R1	R2	R3	R3(R)	R1	R2	R3	R3(R)
Belgaum	96.4	96.7	97.3	96.9	81.9	88.2	95.1	90.0	53.3	51.8	64.6	51.7	64.5	87.9	92.1	75.5
Bellary	82.4	96.5	91.4	NA	66.2	92.7	91.4	NA	52.0	40.8	57.2	NA	71.4	89.1	82.4	NA
Shimoga	75.4	91.7	95.2	NA	68.1	83.0	89.3	NA	45.9	22.4	21.6	NA	56.9	65.5	68.7	NA
Bangalore urban	91.8	93.8	97.2	NA	66.6	84.0	93.4	NA	35.5	22.2	17.6	NA	41.4	70.2	83.2	NA
Mysore	NA	87.1	98.9	NA	51.7	69.2	95.5	NA	7.3	36.6	30.4	NA	NA	67.0	51.9	NA

A majority of FSWs reported to have used condom consistently with occasional clients in the third round of the IBBA (ranging from 87% to 97%). Similarly, a large proportion of FSWs used condom consistently with their regular clients in the third round of IBBA (ranging from 82% to 93%). But the proportion of FSWs used condom consistently with regular non-paying partners is very low in Bangalore urban (14%), Shimoga (15%) and Mysore (25%) as compared to Bellary (45%) and Belgaum (54%) districts in the third round of IBBA.





The proportion of FSWs used condom consistently with occasional clients and regular clients increased significantly in all the districts from IBBA round one to round three. Similarly the proportion of FSWs used condom consistently with regular non-paying partner increased in Belgaum and Mysore districts, decreased in Shimoga district from IBBA round 1 to round 3 and remained more or less same in Bellary and Bangalore urban districts in IBBA round 1 and round 3 (Table 14).

Table 14: Consistent condom use by FSWs (Percent)

	Wi	th Occa	sional Cl	ient	V	Vith Reg	ular Clie	ent	Wit	th Regula Pa	ar Non-P rtner	aying
	R1	R2	R3	R3 (R)	R1	R2	R3	R3 (R)	R1	R2	R3	R3 (R)
Belgaum	90.9	89.1	96.6	94.7	77.4	78.9	93.4	89.1	39.6	42.0	53.9	46.2
Bellary	72.6	89.1	87.4	NA	67.3	84.1	86.2	NA	44.4	29.4	45.1	NA
Shimoga	54.7	83.8	89.5	NA	50.9	76.8	82.7	NA	21.9	13.2	14.9	NA
Bangalore urban	77.0	85.7	90.3	NA	60.3	78.9	86.9	NA	13.3	15.0	14.0	NA
Mysore	NA	66.6	91.2	NA	NA	55.3	85.0	NA	2.1	27.0	24.6	NA

Biological indicators

STI prevalence

The prevalence of active syphilis is high in Mysore (13%) and Bellary (8%) districts in the third round of IBBA. Similarly, high tire syphilis is also high in these two districts as compared to other three districts in the third round of IBBA. The survey did not measure Chlamydia and Gonorrhoea in the third round of IBBA except in Mysore district.

Figure 10: STI prevalence among FSWs: IBBA Round-3



Active syphilis decreased significantly in all the districts over three rounds of survey except in Bellary district where there is an increase in active syphilis over three rounds of survey. Similarly, high titre syphilis is also decreased significantly in all the districts except in Bellary over three rounds of survey (Table 15).

Table 15: STI prevalence among FSW (Percent)

		Belg	gaum]	Bellar	у	5	Shimog	a	Bang	alore u	ırban		Mysor	e
	R1	R2	R3	R3(R)	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
Syphilis	8.0	12.4	4.8	2.2	5.2	7.7	8.0	4.0	3.6	2.3	12.6	9.5	4.0	24.9	11.4	13.2
High titre syphilis	3.3	2.9	1.1	1.3	2.0	4.8	3.2	2.7	1.9	0.4	9.5	4.4	2.5	14.7	3.1	5.2
Ν	360	384	413	222	416	402	397	386	403	377	654	680	633	389	425	425
Chlamydia	6.5	3.8	NA	NA	4.0	4.6	NA	5.6	2.8	NA	6.5	12.0	NA	10.8	4.4	4.0
Gonorrhoea	4.7	2.0	NA	NA	2.7	3.6	NA	1.3	1.3	NA	3.6	3.2	NA	5.4	2.4	0.9
Ν	365	396	NA	NA	423	410	NA	393	405	NA	669	741	NA	427	425	423

HIV prevalence

FSWs in Belgaum district had the highest HIV prevalence (22.3%) and Bellary district had the lowest HIV prevalence (6.3%) in the third round of IBBA. Prevalence of HIV in FSWs is around 10% in Bangalore urban (9.3%) and Mysore (10.9%) districts, and 7% in Shimoga district in the third round of IBBA.





The prevalence of HIV decreased significantly in all the districts over three rounds of IBBA, the decrease in HIV prevalence from IBBA round 1 to round 3 is high in Belgaum (34% to 22%), Mysore (26% to 11%) and Bellary (16% to 6%) districts.

HSV-2 prevalence

FSWs in Belgaum Urban district had the highest HSV-2 prevalence (72%) and Shimoga district had the lowest HSV-2 prevalence (49%) in the third round of IBBA. Prevalence of HSV-2 in FSWs is around 67% in Bangalore and Bellary districts, and 69% in Mysore district in the third round of IBBA.





The prevalence of HSV-2 significantly decreased in all the districts from IBBA round one to round three except in Mysore district where HSV-2 prevalence is slightly increased (64% to 67%) from round one to round three of IBBA. HSV-2 prevalence was not assessed in the second round of IBBA.

Other key indicators

FSWs ever tested for HIV

Most of the FSWs reported that they ever tested for HIV in the third round of IBBA ranging from 83% in Mysore district to 96% in Shimoga district.

There is a significant increase in the proportion of FSWs who ever tested for HIV over three rounds of survey in all the districts (from a range of 21% to 40% in R-1, and from 83% to 96% in R-3)

Figure 13: FSWs ever tested for HIV by IBBA round and District



Seeking voluntary HIV test

Voluntary HIV testing was calculated only among those who ever tested for HIV. Most of the FSWs in Shimoga (90%), Bangalore Urban (93%) and Mysore (97%) are tested for HIV voluntarily in the third round of IBBA, whereas only 63% in Belgaum and 55% in Bellary districts tested for HIV voluntarily in the third round of IBBA.

The proportion of FSWs who tested voluntarily for HIV is significantly decreased from IBBA R-1 to R-3 in Belgaum and Bellary districts, remained almost same in Shimoga, Bangalore Urban and Mysore (R-2 to R-3) districts.

Exposure to intervention

Most of the FSWs across districts reported being contacted by peer educators or outreach workers in the third round of IBBA. Similarly, most of the FSWs across districts reported that they visited NGO clinic and also witnessed condom demo in the third round of IBBA.

Figure 14: FSWs seeking voluntary HIV test by IBBA round and District



The proportion of FSWs ever contacted by peer educators increased from IBBA round one to round three in all the districts. Similarly, proportion of FSWs visited NGO clinic and witnessed condom demo increased significantly from IBBA round one to round three in all the districts (Table 16).

Table 16: Exposure to intervention among FSWs (Percent)

		Belg	gaum		-	Bellary	7	5	Shimoga	a	Bang	galore u	ırban	l	Mysore	e
	R1	R2	R3	R3(R)	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
Ever contacted by Peer/ORW	94.6	99.5	98.2	98.4	91.1	97.7	95.7	71.7	99.3	98.7	87.9	85.4	97.3	64.1	95.6	99.4
Ever visited NGO clinic	84.1	86.6	94.9	95.5	79.5	82.7	89.5	50.9	91.1	91.0	85.5	74.9	93.6	53.8	94.0	89.9
Witnessed condom demo	91.4	98.3	96.4	95.5	84.1	94.7	88.0	62.9	93.8	93.8	83.5	74.1	93.1	38.0	88.1	97.6
Ν	386	402	423	225	427	411	400	394	406	393	676	756	718	429	425	425

3.2. High Risk MSM

Socio-demographic characteristics

Self identification

MSM who participated in the survey were asked about how they identified themselves. As evident from the table below, the recent survey shows that a large proportion of respondents across districts reported their identity as Double Deckers/AC/DC except in Mysore district, where the majority of the respondents reported their identity as Kothi.

Figure 15: Distribution of MSM by their self identification: IBBA Round-2



There is a increase in the proportion of MSM who are identified themselves as Double Deckers/AC/DC in Belgaum (from 59% in R-1 to 62% in R-2), Bellary (from 48% in R-1 to 56% in R-2) and Bangalore Urban (from 30% in R-1 to 41% in R-2) districts and decrease in Shimoga (from 75% in R-1 to 69% in R-2) and Mysore (from 29% in R-1 to 22% in R-2) district. The proportion of MSM who identified themselves as Kothi decreased in Belgaum, Bangalore Urban and Mysore districts, increased in Bellary and Shimoga districts from IBBA R-1 to R-2. The proportion of MSM, who identified themselves as Hijra/Transgender increased in Bangalore Urban and Mysore districts, decreased in Bellary district from IBBA R-1 to R-2 and remained same in Belgaum and Shimoga districts in IBBA R-1 and R-2 (Table 17).

Table 17: Self identification by MSM (Percent)

	Belg	aum	Bel	lary	Shin	noga	Ban Ui	galore rban	Му	sore
	(N=25	0, 199)	(N=10	01, 71)	(N=92	2, 89)	(N=32	21, 403)	(N=10	0, 100)
	R-1	R-1 R-2		R-2	R-1	R-2	R-1	R-2	R-1	R-2
Kothi	21.4 19.4		22.1	32.2	15.6	19.9	31.6	11.3	57.0	54.2
Panthi	6.1	0.8	4.6	2.3	5.0	4.1	8.8	0.3	1.0	3.2
Double Deckers/AC/DC	59.0	62.0	48.4	56.2	75.2	68.5	29.9	40.8	29.0	22.3
Bisexual	10.5	14.5	9.9	1.2	4.1	7.4	16.2	19.2	0.0	4.2
Hijra/Transgender	3.0	3.3	15.0	8.1	0.0	0.0	13.5	28.3	13.0	16.1

Age

The recent survey shows that, about half of the respondents in Bellary and nearly one-third in Mysore are in the age group of 20-24 years. Similarly, about one-third of the respondents in Belgaum and Shimoga are in the age of 40 years or above, whereas nearly one-third of the respondents in Bangalore Urban are in the age group of 25 to 29 years.





There is a significant decline in the proportion of young MSM below the age of 20 years from IBBA R-1 to R-2 in all the districts except in Bangalore Urban district where there is an increase in the proportion of MSM below the age 20 years from IBBA R-1 to R-2. Similarly, the proportion of MSM in the age group of 40 years or above increased in R-2 when compared to R-1 in all the districts except in Bellary districts where it is significantly decreased (Table 18).

Table 18: Age distribution of high risk MSM (Percent)

-	Belga	aum	Bell	ary	Shin	noga	Bangalo	re Urban	Mys	sore
	(N=250	0, 199)	(N=10)1, 71)	(N=9	2, 89)	(N=32	1, 403)	(N=10	0, 100)
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
<20	4.2	2.4	10.2	1.9	10.6	5.2	4.1	6.2	8.0	2.8
20-24	16.6	19.9	33.5	48.9	33.4	23.7	36.1	26.8	22.0	28.5
25-29	21.2	16.3	17.3	22.0	16.8	12.4	29.9	32.4	24.0	18.4
30-34	18.7	10.1	11.0	9.3	8.9	14.2	9.8	13.8	19.0	20.9
35-39	11.8	17.0	10.3	8.6	9.6	11.0	9.3	7.9	20.0	15.0
40+	27.5	34.3	16.7	9.3	20.7	33.6	10.6	12.9	7.0	14.3

Education

The recent survey shows a majority of the respondents had more than six years of schooling across districts. Similarly, more than one-third of the

respondents in Belgaum and Bellary, little lesser than one-third in Shimoga and Mysore districts are Illiterate, which is only 12.5% in Bangalore Urban in the second round of IBBA.

The proportion of high risk MSM who studied up to 11th grade or above had increased significantly in all the districts from R-1 to R-2. Similarly, the proportion of MSM who are Illiterate also increased in all the districts from

R-1 to R-2 except in Bangalore Urban district where there is a decline in the proportion of Illiterates from R-1 to R-2 (Table 19).

Table 19: Educational attainment of high risk MSM (Percent)

	Belg	aum	Bell	lary	Shin	noga	Bangalo	re Urban	Му	sore
	(N=25	0, 199)	(N=10)1, 71)	(N=9	2, 89)	(N=32	1, 403)	(N=10	00, 100)
	R-1 R-2		R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Illiterate	31.4	37.3	36.7	40.0	20.9	31.1	23.5	12.5	23.0	27.4
Primary	9.2	4.5	11.9	6.8	26.7	2.3	6.3	7.5	8.0	5.8
Middle	34.6	33.6	27.2	18.7	34.9	43.0	43.8	42.8	38.0	35.2
Secondary and above	21.6	24.2	23.4	34.5	17.5	22.5	26.4	35.7	29.0	30.6
No formal education	3.1	0.4	0.8	0.0	0.0	1.0	0.0	1.5	2.0	0.9

Current marital status

Most of the MSM are never married in Bellary, Bangalore Urban and Mysore districts. Similarly, majority of the MSM are currently married in Belgaum and Shimoga districts in the recent survey.

The proportion of MSM who are Never Married increased from R-1 to R-2 in Belgaum, Bangalore Urban and Mysore districts, and decreased in from R-1 to R-2 in Bellary and Shimoga districts. Similarly, the proportion of MSM who are currently married increased from R-1 to R-3 in all the districts except in Mysore district (Table 20).



Figure 17: Distribution of MSM by educational attainment and

Table 20: Marital status of high risk MSM (Percent)

	Belg	aum	Bel	lary	Shir	noga	Bangalo	ore Urban	Му	sore
	(N=25	0, 199)	(N=10)1, 71)	(N=9	92, 89)	(N=32	21, 403)	(N=10	00, 100)
	R-1 R-2		R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Never married	33.7	36.5	58.5	53.9	49.5	42.5	68.5	72.6	57.0	78.8
Currently married	60.3	63.5	33.2	46.1	45.7	56.3	17.0	24.7	32.0	19.1
Others	6.0	0.0	8.3	0.0	4.8	1.2	14.5	2.7	11.0	2.1

Knowledge indicators

Knowledge of HIV prevention methods

Respondents identifying consistent condom use as a method of reducing the risk of contracting HIV were regarded as having knowledge of HIV prevention. The recent survey shows that almost all MSM knew about HIV prevention method across districts.

Knowledge of HIV prevention method among MSM increased significantly over two rounds of IBBA across districts.

Figure 18: Knowledge of HIV prevention method (Percent) among MSM



Knowledge of STI symptoms

A majority of the respondents reported that they have knowledge of at least two STI symptoms in the second round of IBBA across districts ranging from 65% in Belgaum district to 92% in Mysore district. There is a significant increase in the proportion of MSM with knowledge of at least two STI symptoms among MSM from IBBA R-1 to R-2 across districts.

Figure 19: Knowledge of at least two STI symptoms (Percent) among MSM



Behavioral indicators

Mean age at sexual debut

Mean age at sexual debut is around 18 years in Bellary, Bangalore Urban and Mysore districts, 19 year in Belgaum district and 20 years in Shimoga district in the second round of IBBA. Mean age at sexual debut increased in Bellary, Shimoga and Mysore districts over two rounds of IBBA, and remained more or less same in Belgaum and Bangalore Urban districts over two rounds of IBBA.

Figure 20: Mean age at sexual debut among MSM (in years)



The proportion of MSM had first anal sex before the age of 15 years decreased significantly across districts over two rounds of IBBA. Similarly, proportion of MSM had first anal sex in the age group of 15-17 years decreased significantly in all the districts except in Bangalore Urban district, where it remained more or less same over two rounds of IBBA (Table 21).

Table 21: Age at first anal sex among high risk MSM (Percent)

	Belg	aum	Bell	lary	Shir	noga	Bangalo	re Urban	Mys	sore
	(N=25	0, 199)	(N=10)1,71)	(N=9	92, 89)	(N=32	1, 403)	(N=10	0,100)
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
<15	12.3	10.9	12.1	4.2	6.5	3.1	15.4	14.7	17.0	5.5
15-17	29.5	18.3	44.8	30.1	33.7	19.8	30.8	29.4	39.0	34.3
18-20	33.3	40.5	34.7	41.4	39.7	38.4	37.8	33.3	23.0	37.2
20+	24.1	28.0	7.4	20.8	20.2	35.7	16.0	17.0	20.0	10.8
Never had anal sex	0.7	2.3	1.0	3.5	0.0	3.1	0.0	5.6	1.0	12.2

Sexual partners

More than 60% of the MSM in Belgaum (63%), Bellary (70%) and Bangalore Urban (60.3%) districts, about 34% in Shimoga and 40% in Mysore district reported that they have Regular male/hijra partners in the second round of the IBBA. MSM in Mysore (75%), Bangalore Urban (49%) and Bellary had a high proportion of paying male partners in the second round of IBBA which is just below 20% in Belgaum and nearly 25% in Shimoga district. The recent survey shows that one in every ten MSM in Bangalore Urban, Shimoga and Mysore had paid male or hijra partners. More than 50% of MSM in Belgaum and Shimoga districts, nearly 50% in Bellary district, about 28% in Bangalore Urban and only 17% in Mysore had regular female partners in the second round of IBBA.



Figure 21: Sexual partners of high risk MSM - IBBA R-2

Regular male/hijra partners had increased significantly among MSM across districts except in Mysore district over two rounds of IBBA. There is a significant decrease in the proportion of MSM, who had paying male partner in Belgaum, Bellary and Shimoga districts over two rounds of IBBA which remained almost same in Bangalore Urban and increased significantly in Mysore district over two round of IBBA. There is a decrease in the proportion of MSM who had paid male or hijra partner in Belgaum, Bellary and Mysore districts over two rounds of IBBA which is increased over two rounds of IBBA in Shimoga and Bangalore Urban districts. The proportion of MSM who had regular female partner increased across districts over two rounds of IBBA (Table 22).

Table 22: Sexual partners of high risk MSM (Percent)

	Belg	aum	Bell	lary	Shin	noga	Bangalo	re Urban	Mys	sore
	(N=25	0, 199)	(N=10)1, 71)	(N=9	2, 89)	(N=32	21, 403)	(N=10	0,100)
	R-1 R-2		R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Regular male/hijra partner	42.3	62.5	41.5	70.1	29.6	33.9	42.1	60.3	64.0	40.0
Paying male partner	51.5	18.5	78.5	42.2	67.5	24.2	50.4	48.7	68.3	74.7
Paid male/hijra partner	10.5	7.2	10.4	9.1	5.0	10.3	4.6	10.9	4.5	0.0
Regular female partner	41.7	65.1	16.3	47.0	20.5	55.3	12.2	28.3	15.4	16.8

Condom use

Most of the MSM from Belgaum, Bellary and Shimoga reported consistent condom use with regular male/hijra partner in the recent survey which is about 59% in Bangalore Urban and 38% in Mysore district. Similarly, most of the MSM from Belgaum, Bellary and Shimoga reported consistent condom use with paying male partner in the second round of IBBA which is just about two-third in Bangalore Urban and Mysore district. Most of the respondents from Belgaum, Bellary and Shimoga, and about 65% in Bangalore Urban and just half of the respondents in Mysore used condom consistently with paid male/hijra partners in the second round of IBBA. The recent survey shows that the proportion of MSM used condom consistently with their regular female partners is less than 10% in all the districts except in Bangalore Urban where it is just little more than 10%.

Figure 22: Consistent condom use with different types of partner among high risk MSM: IBBA R-2



There is a significant increase in the proportion of MSM used condom consistently with regular male partners over two rounds of IBBA in Belgaum, Bellary and Shimoga districts, but in Bangalore Urban and Mysore districts this is decreased significantly over two rounds of IBBA. Similarly, the proportion of MSM used condom consistently with paid male or hijra partners increased significantly over two rounds of IBBA across districts. Consistent condom use with regular female partner decreased over two rounds of IBBA across districts. Comparison of consistent condom use with paid male/hijra partner over two rounds of IBBA is not available as information on this is not collected during the first round of IBBA except in Belgaum and Bangalore Urban districts (Table 23).

Table 23: Consistent condom use among high risk MSM (Percent)

	Belg	aum	Bell	lary	Shin	noga	Bangalo	ore Urban	Му	sore
	(N=25	0, 199)	(N=10)1, 71)	(N=9	2, 89)	(N=3	21, 403)	(N=10	0, 100)
	R-1 R-2		R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Regular male/hijra partner	55.9	82.0	36.5	83.4	52.0	100.0	69.8	59.1	76.6	38.3
Paying male partner	-	93.7	-	88.5	-	93.5	0.4	64.4	-	67.3
Paid male/hijra partner	26.0	87.1	47.9	89.7	55.6	90.0	38.3	65.4	0.0	50.0
Regular female partner	11.3	9.7	8.8	4.4	8.8	6.5	21.6	12.9	11.5	5.3

Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV 29

Biological indicators

STI prevalence

The prevalence of active syphilis is high in Bellary (13.2%), Bangalore Urban (10.8%) and Mysore (6.5%) districts in the second round of IBBA. Similarly, high tire syphilis is high in Bellary (6%) and Bangalore Urban (5%) districts as compared to other three districts in the second round of IBBA.



Figure 23: STI prevalence among MSM (Percent): IBBA Round-2

Active syphilis decreased significantly across districts over two rounds of survey. Similarly, high titre syphilis is also decreased significantly across districts over two rounds of survey (Table 24).

Table 24: STI prevalence among high risk MSM (Percent)

	Belg	gaum	Bel	lary	Shin	noga	Bangalo	re Urban	My	sore
	(N=25	60, 199)	(N=10	01, 71)	(N=9	2, 89)	(N=32	21, 403)	(N=10	0, 100)
	R-1 R-2		R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Active syphilis	10.3	0.5	22.7	13.2	10.5	0.0	10.3	10.8	23.0	6.5
High titre syphilis	3.5 0.5		10.2	5.9	6.2	0.0	6.3	5.1	14.0	0.9

HIV prevalence

MSM in Bellary district had the highest HIV prevalence (26%) and Belgaum district had the lowest HIV prevalence (8%) in the second round of IBBA. Prevalence of HIV in MSM is around 17% in Bangalore urban and 15% in Mysore districts, and about 12% in Shimoga district in the second round of IBBA.

Figure 24: HIV prevalence among MSM by IBBA round and District



The prevalence of HIV decreased significantly across districts over two rounds of IBBA except in Shimoga district where the prevalence of HIV increased from 10% to 12% over two round of IBBA.

HSV-2 prevalence

MSM in Mysore district had the highest HSV-2 prevalence (59%) and Bangalore Urban district had the lowest HSV-2 prevalence (30%) in the second round of IBBA. Prevalence of HSV-2 in MSM is about 35% in Belgaum and Shimoga districts, and 55% in Bellary district in the second round of IBBA.

The prevalence of HSV-2 significantly decreased in all the districts over two rounds of IBBA.

Figure 25: HSV-2 prevalence among high risk MSM (Percent)



Other key indicators

Ever tested for HIV

The most recent survey shows most of the MSM across districts had ever tested for HIV. There is a significant increase in the proportion of high-risk MSM who ever tested for HIV over two rounds of IBBA across districts.

Figure 26: High risk MSM who ever tested for HIV (Percent)



Seeking voluntary HIV test

Among those who ever tested for HIV, most of the MSM in Mysore (96%) and Bangalore Urban (80%) are tested for HIV voluntarily in the second round of IBBA, whereas only 61% in Shimoga and just above 50% in Belgaum and Bellary districts tested for HIV voluntarily in the second round of IBBA.

The proportion of MSM who tested voluntarily for HIV is significantly decreased over two rounds of IBBA across districts except in Mysore district where it remained almost same in both the rounds of IBBA.





Exposure to intervention in the previous 12 months

Most of the MSM across districts reported being contacted by peer educators or outreach workers in the most recent IBBA. Similarly, most of the MSM across districts reported that they witnessed condom demo and also received condoms in the second round of IBBA. Most of the MSM across districts visited NGO clinic in the second round of IBBA which is little less in Mysore (64%) compared to other four districts.

The proportion of MSM contacted by peer educators, witnessed condom demonstration and received condoms increased across districts over two rounds of IBBA except in Mysore district where there is a decline over two rounds of IBBA (Table 25).

Table 25: Exposure to intervention among high risk MSM – Last year (Percent)

	Belg	aum	Bel	lary	Shin	noga	Bangalor	e Urban	My	sore
	(N=25	0, 199)	(N=10)1, 71)	(N=9	2, 89)	(N=32]	1, 403)	(N=10	0, 100)
	R-1 R-2		R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Contacted by project staff	91.0	98.5	90.3	96.5	84.1	93.8	72.1	90.1	99.0	88.1
Given condom	88.1	91.3	78.8	93.2	76.2	90.7	66.7	78.0	97.0	88.5
Visited project clinic	NA	91.0	NA	84.5	NA	89.2	NA	87.4	NA	64.1
Seen condom demonstration	85.4	95.2	79.6	93.4	80.0	93.8	55.9	83.1	92.0	90.8
NA: Not Available										

3.3 Clients of FSW Socio-demographic characteristics

Age

The age distribution of the clients of FSWs remained more or less same over the two rounds of the surveys in Shimoga, Bangalore Urban and Mysore. A shift in age profile of the clients was observed in Belgaum and Bellary districts. For example, the proportion of clients under 30 years of age declined from 59% to 47% in Belgaum and 62% to 59% in Bellary, respectively, from R-1 to R-2. On the other hand, proportion of clients over 30 years of age increased 41% to 53% and 38% to 41% in Belgaum and Bellary districts respectively. Clients of FSWs from Bagalkot were found to be relatively younger in age as 60 percent of them were aged below 30 years at the time of interview (Table 26).

Table 26: Age distribution of clients of FSWs (Percent)

			R	lound –	1					R	lound - 1	2		
	<20	20-24	25-29	30-34	35-39	40-44	45+	<20	20-24	25-29	30-34	35-39	40-44	45+
Belgaum (N=410, 416)	7.1	25.4	26.7	14.8	11.0	7.9	7.1	1.7	23.4	21.8	19.3	11.6	11.1	11.2
Bellary (N=424, 401)	6.8	34.6	20.4	13.3	11.9	6.5	6.5	2.3	26.4	30.4	16.9	11.3	7.5	5.2
Shimoga (N=426, 385)	3.3	19.5	23.9	21.2	12.4	8.7	11.0	1.2	22.0	26.7	16	13.2	11.4	9.6
Bangalore Urban (N=684, 684)	2.6	22.2	25.0	17.9	15.1	7.5	9.7	1.9	21.8	24.7	15.7	15.5	10.8	9.6
Mysore (N=425, 425)	1.9	17.6	20.0	13.4	15.3	12.7	19.1	2.1	17.3	20.4	15.1	14.8	7.9	22.4
Bagalkot (N=434)	6.4	28.0	25.9	15.2	10.1	6.3	8.2	NA	NA	NA	NA	NA	NA	NA

Educational attainment

Irrespective of the rounds and district of the survey, at least one-fourth of the total clients were non-literate. A majority of these non-literate clients were from the district of Mysore (54% in R-2). Findings also suggest that except Shimoga and Bangalore Urban, there was a general decrease in the proportion of literate clients of FSW in Belgaum (23% vs. 20%), Bellary (13% vs. 10%) and Mysore (16% vs. 15%) between R-1 and R-2 (Table 27).

Table 27: Educational attainment of clients of FSW (Percent)

	Belş	gaum	Bell	lary	Shi	moga	Banş Ur	galore ban	Му	vsore	Bagalkot
	(N=41	10, 416)	(N=42	4,401)	(N=4	26, 385)	(N=68	34, 684)	(N=42	25, 425)	(N=434)
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1
Illiterate	24.5	35.0	31.4	42.6	24.4	23.7	22.5	23.8	40.0	54.1	33.3
Primary	13.5	10.2	21.0	11.0	12.4	7.3	11.9	9.2	6.1	3.9	15.1
Middle	39.0	34.9	34.8	36.3	48.6	52.7	49.0	46.5	37.9	26.9	33.0
Secondary and above	23.0	19.9	12.8	10.1	14.7	16.3	16.6	20.6	16.0	15.1	18.5

Current marital status

The proportion of never married clients of FSW varied from the lowest 17% in Belgaum to the highest 34% in Shimoga in R-2. However the percentage of never married clients was minimum 23% in Mysore to maximum 38% in Bangalore Urban during the R-1. A secular decline in the proportion of never married clients is observed between the two rounds of survey across the districts (Belgaum 36% vs. 17%; Bellary 34% vs. 26%; Shimoga 38% vs. 34%; Bangalore Urban 38% vs. 31%). On the other hand there is an increase in the proportion of currently married clients between the two rounds of survey across the districts, except Mysore where percentage of currently married clients declined from 75% in R-1 to 67% in R-2. The proportion of clients who were married at the time of survey increased Belgaum (from 60% to 79%), Bellary (from 65% to 73% and Bangalore Urban (from 60% to 69%) indicating the risk of multiple sexual partner in their marital life (Table 28).

Table 28: Current marital status of clients of FSW (Percent)

	Belį	gaum	Bell	lary	Shi	moga	Ban U	galore rban	Му	vsore	Bagalkot
	(N=4)	10, 416)	(N=42	4, 401)	(N=4	26, 385)	(N=6	84, 684)	(N=42	25, 425)	(N=434)
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1
Never married	36.3	17.1	33.6	26.4	37.9	34.2	38.4	30.7	23.5	30.1	29.9
Currently married	60.3	79.2	65.0	73.2	60.7	64.8	60.1	68.9	75.3	66.6	64.0
Other	3.4	3.8	1.4	0.4	1.4	1.0	1.5	0.4	1.2	3.3	6.1

Current cohabiting status

A higher percentage of clients of FSWs in R-2 were cohabiting with their partner at the time of survey than those interviewed in R-1. The difference between R-1 and R-2 was much more evident in Belgaum where only 68% clients in R-1 were cohabiting with their partner at the time of survey in comparison to 82% clients in R-2. In contrast to the other district, the proportion of clients cohabiting with their partner reduced from 82% in R-1 to 69% in R-2 in Mysore district.

Figure 28: Clients of FSWs currently cohabiting with partner (Percent)



Current place of residence

No major differences were observed in the place of residence of the clients over the two IBBAs. Except Mysore, in all the districts, about 90% clients in R-1 and R-2 were local dwellers. The proportion of local dwellers clients was considerably lower in Bagalkot.

Figure 29: Current place of residence as place of interview among clients of FSWs (Percent)



Knowledge indicators

Ever heard of HIV/AIDS and feel at risk of HIV infection

During the both rounds of the surveys, attempt was made to assess the extent of knowledge about HIV/AIDS among the clients of FSWs and the extent to which they feel that they are at the risk of getting HIV among those who had ever heard of HIV/AIDS. Result indicates that, other than the clients interviewed in Mysore districts, more than 90% of the clients were aware of HIV/AIDS.

Figure 30: Clients of FSWs ever heard of HIV/AIDS (Percent)



Across all the districts, there was a decline in the proportion of clients of FSW who felt that they were at risk of getting infected with HIV. The proportion was lowest in Shimoga (3%), followed by Bangalore Urban (5%), Belgaum and Bellary (6%), and highest in Mysore (27%) in R-2. About one out of ten clients from Bagalkot perceived that they were at risk of getting infected with HIV in R-1.

Figure 31: Clients of FSWs who feels they are at risk of HIV infection (Percent)



Behavioral indicators

Age at first sex

Age at first sex is one of the key indictors to represent the extent of HIV related risk and vulnerability among any population. Early initiation of sexual activity has always been found to be associated with the higher chances of getting HIV infection. Data from the two rounds of IBBA survey clearly indicators that there is a postponement in initiating the sexual activities among clients of FSWs. In other word, percentages of younger clients have declined similar for all the other districts also.

Table 29: Age at first sex of clients of FSW (Percent)

	Belį	gaum	Bel	lary	Shi	moga	Bar U	ngalore Trban	Му	vsore	Bagalkot
	(N=4)	10, 416)	(N=42	4, 401)	(N=4	26, 385)	(N=6	84, 684)	(N=4	25, 425)	(N=434)
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1
Below 16	5.8	2.1	2.5	2.0	2.4	0.0	4.1	1.1	2.8	0.0	4.4
16-17	9.6	5.7	10.2	4.8	10.1	2.4	12.9	3.9	4.5	3.1	15.7
18-19	33.6	42.2	34.7	28.0	25.1	23.1	26.8	28.4	28	31.3	42.2
20-24	40.1	39.4	45.8	51.5	50.9	49.8	44.9	57.9	41.6	48.4	31.5
25 and above	10.8	10.6	6.8	13.6	11.5	24.7	11.3	8.7	23.1	16.3	6.0

The mean age at first sex also revealed the fact that age at initiation of sexual activities among clients of FSWs has somewhat increased in the recent years.

Figure 32: Mean age at first sex among clients of FSWs (Years)



Place of pickup

In general, except Mysore, about half of the clients of FSWs picked up sex workers from brothel or home. The proportion of such clients was highest in Bellary (58%) followed by Bangalore Urban (45%) and Shimoga (34%) in R-2. In comparison to other districts, a large proportion of clients in Belgaum (41%) and Mysore (57%) picked up their clients from public places. However, in comparison to R-1, some clients interviewed during R-2 in Bellary, Shimoga and Mysore districts reported that they used other modes like mobile phone for picking up female sex workers.

over the two rounds of the survey in all the districts. For example, in Belgaum, about 15% of the clients experienced the first sexual activity before 18 years of age in R-1 while this percentage dropped to 8% in R-2. The pattern was

Table 30: Place of pick-up of sex worker by clients of FSW (Percent)

	Belş	gaum	Bel	lary	Shi	moga	Ban U	igalore rban	Му	/sore	Bagalkot
	(N=4]	10, 416)	(N=42	4,401)	(N=4	26, 385)	(N=6	84, 684)	(N=42	25, 425)	(N=434)
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1
Public place	31.3	41.1	45.9	17.5	26.2	29.5	37.2	19.9	95.8	56.9	12.0
Brothel/hotel/ lodge/Dhaba	29.1	11.6	26.7	20.3	11.5	10.9	19.1	17.3	2.1	16.8	3.1
Home	38.7	22.0	26.9	37.5	62.0	23.1	40.1	27.7	1.6	18.7	81.4
Others	0.9	1.1	0.4	5.1	0.3	3.2	3.6	1.4	0.5	3.5	3.5

Sexual partners

The proportion of clients having 'occasional female sex worker partner' varied from 75% in Mysore to 98% in Bellary in R-1, and from 70% in Mysore to 92% in Bangalore urban and about 85% in Belgaum, Bellary and Shimoga in R-2. A relatively higher proportion of clients in Mysore and Shimoga and lower proportion in Bellary, Bangalore Urban and Belgaum reported having 'regular FSW partner' in R-2 in comparison to R-1. The percentages of clients having regular FSW partner were highest in Bagalkot (69%) followed by Mysore (59%) and Shimoga (53%). The pattern of change in having regular FSW partner was erratic. For example, while clients having regular FSW partner reduced in Bellary, Bangalore Urban and Mysore from R-1 to R-2, the proportion of such clients have increased in Belgaum and Shimoga. In case of regular female sexual partners also, clients from all the five districts reported a general increase in having regular female sexual partner from R-1 to R-2. However, the proportion of clients having 'casual non-paying female partner' decreased from R-1 to R-2 in all the districts and extent of decrease was highest in Bangalore Urban (25% in R-1 to 8% in R-2) and Shimoga (25% in R-1 to 10% in R-2). A considerably lower proportion of clients reported to have male/hijra sexual partner. The proportion of such clients was lowest in Belgaum and Bagalkot (1.1%) while highest in Mysore (9%) followed by Bellary (8%).

Table 31: Types of sexual partner among clients of FSW (Percent)

	Belş	gaum	Bell	lary	Shi	moga	Ban U	galore rban	Му	vsore	Bagalkot
	(N=41	0, 416)	(N=42	4, 401)	(N=42	26, 385)	(N=6	84, 684)	(N=42	25, 425)	(N=434)
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1
Occasional FSW	86.4	87.8	97.6	85.5	94.9	84.2	87.7	92.0	75.3	69.7	67.3
Regular FSW	24.0	31.7	54.1	29.3	11.8	53.1	41.8	23.3	70.4	59.0	69.3
Main female sexual partner	68.1	83.1	70.0	72.9	66.9	70.3	67.9	68.9	12.0	19.6	76.0
Other non-regular, non-commercial partner	17.5	9.7	8.0	5.9	24.8	9.6	24.8	7.5	8.9	0.8	20.4
Male/hijra partner	2.4	1.1	3.3	7.9	1.5	1.8	14.2	3.6	6.8	9.1	1.1

The proportion of clients of FSW who ever had anal sex with FSW was highest in Bangalore Urban while lowest in Mysore in both the rounds of the survey. Clients who ever had anal sex decreased in Bangalore Urban (from 15% to 12%), and Belgaum (8% to 6%) while increased in Bellary (4% to 10%) and Shimoga (5% to 6%) over two rounds of survey. The proportion of such clients remained more or less same in Mysore in the two rounds.



Condom use

The proportion of clients of FSW who used condom last time they had sex with occasional FSW ranged from 55% to 96% in R-1, and from 79% to 96% in R-2. Clients from Mysore reported high level of condom use with occasional FSWs in both the rounds of survey. However, a general increase was observed in condom use at last sex with occasional FSWs among the clients of all the other districts under study. A similar pattern of increase was also observed in use of condoms at last sex with regular FSWs and the extent of increase was highest in Bellary (49% to 83%) and Bangalore Urban (65% to 84%) than the other three districts. Despite a high condom use by the clients in their last sexual act with occasional and regular female sex workers, the use of condom while having sexual relations with main female partner remained very low. Just two percent clients in Bellary followed by five percent in Bangalore Urban and seven percent in Belgaum reported use of condom in last sex with their main female sexual partner during the R-2 survey. However this percentage was relatively high in Shimoga (14%) and Bagalkot (13%). About 60% clients of FSW used condom last time with main/steady female sexual partner in both the rounds of survey which is much more higher than the any other districts selected under study.

Figure 34: Last time condom used by clients of FSWs (Percent)



Although, a relatively low proportion of clients of FSW used condom consistently with occasional and regular FSWs, there was a secular increase in the consistent condom use with occasional and regular FSWs across the districts over the two rounds of the survey. The consistent condom use with occasional FSWs found to be highest

Figure 33: Clients of FSWs ever had anal sex with FSWs

in Bangalore Urban (80%) while lowest in Shimoga (62%) in R-2. Similarly, the consistent condom use with regular FSW was raging from highest 40% in Mysore to lowest 20% in Belgaum and Bellary. A very few clients of FSWs used condom consistently with their main regular female sexual partner (1% to 6% in R-1 and R-2).



Figure 35: Consistent condom use by clients of FSWs (Percent)

Biological indicators

STI prevalence

The prevalence of Syphilis among the clients of FSWs varied from 5.8% in Bellary to 2.9% in Mysore in R-1 and 0.8% in Bangalore Urban to 1.7% in Shimoga in R-2. The prevalence of Syphilis dropped substantially in Belgaum, Bellary, Shimoga and Bangalore Urban while recorded a minimum decline in Mysore. The prevalence of Syphilis was about two percent among the clients of FSWs in Bagalkot. The prevalence of high-titre syphilis was very low in R-1 (about two percent) and dropped further to one percent or below in four of the five districts. The Chlamydia and Gonorrhea test was done only the first round of the survey and results indicate a very low level of prevalence of gonorrhea was very low among the clients of FSW.

Table 32: STI prevalence among clients of FSW (Percent)

	Belş	gaum	Bell	lary	Shi	moga	Ban U:	galore rban	Му	/sore	Bagalkot
	(N=41	10, 416)	(N=42	4, 401)	(N=4	26, 385)	(N=6	84, 684)	(N=42	25, 425)	(N=434)
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1
Active syphilis	4.2	1.8	5.8	2.3	3.1	1.7	3.8	0.8	2.9	2.5	1.9
High-titre syphilis	1.9	0.3	1.2	0.0	0.5	0.3	1.7	0.3	2.2	1.2	1.0
Gonorrhea	1.4	NA	1.7	NA	0.6	NA	3.0	NA	4.0	NA	0.5
Chlamydia	0.0	NA	0.9	NA	0.5	NA	0.6	NA	1.4	NA	0
NA. Not applicable		C toot wa	a mot de	ma in th		d norm d	e f an				

NA: Not applicable (CT/NG test was not done in the second round of survey)

HIV prevalence

The prevalence of HIV decreased in Belgaum (6.2% to 3.0%), Shimoga (3.0% to 1.9%) and Mysore (5.4% to 4.6%) while remained almost unchanged in Bellary (6% to 6.3%) and Bangalore Urban (2.4% to 2.6%) between the two rounds of survey. The HIV prevalence was recorded as highest (13.4%) in Bagalkot district.

HSV-2 prevalence

Similar to the HIV, the prevalence of HSV-2 has also shown a consistent decline over the two rounds of survey across all the districts. The most significant decline in HSV-2 prevalence was observed in Shimoga district (26% to 14%) while least in Belgaum (28% to 23%). At the overall level, the HSV-2 prevalence ranged between 26to other five districts covered under IBBA study.

Other key indicators

Ever tested for HIV

There was a significant increase in the proportion of clients of FSWs who ever tested for HIV in Mysore (from 23% to 53%), Shimoga (from 13% to 34%), and Bellary district (from 16% to 25%). Although HIV testing has shown an increase in other two districts also, the extent of increase was not significant (Belgaum 15-23% and Bangalore Urban 14-18%).

Figure 38: Clients of FSWs ever test for HIV (Percent)





Figure 36: HIV prevalence among clients of FSWs (Percent)





Exposure to intervention in the previous 6 months

Findings show that over 90% of the clients of FSWs had heard or seen advertisement on condom in the past six months with one exception that level of exposure to condom related message was low in Mysore (72%). Similarly, a large proportion of clients of FSW had heard or seen advertisement on STIs but with a comparatively large variation (ranging from 86% in Bangalore Urban to 77% in Bellary R-2, and from 65% in Shimoga and Bellary to just 45% in Belgaum in R-1).







Using the data from different rounds of Integrated Behavioral and Biological Assessment survey among high-risk groups namely, FSWs, MSM and clients of FSWs, this report is an important attempt to assess the changes in prevalence of HIV/STIs among population at risk of HIV in Karnataka. Apart from the changes in prevalence of HIV and STI, this report also makes a valuable attempt to document the important behavioural changes including sexual/ sex work history, condom use behaviour, knowledge and awareness about HIV/STIs and exposure to the intervention which are equally important while discussing the HIV related risks and vulnerabilities among these population. The key findings of this report are highlighted in the following sections:

Female Sex Workers:

As seen from the results, one of the most important changes that has taken place in sex work trade in Karnataka is the evolution of "mobile-based typology" among the FSWs. Findings clearly suggest that there is a decline in the home or brothel based sex workers in almost all districts as many of the sex workers from these typologies are using mobile phone for picking up their clients. Findings also indicate that, along with the home and brothel based sex workers, proportion of street based sex workers are declining in Shimoga and Bangalore urban and at the same time proportion of sex worker using mobile phones a as mode of solicitation are consistently increasing over the three rounds of survey; indicating the fact that there might be transformation of some street based sex workers to the phone based sex workers. These transformations are important to notice from the prevention point of view as many of these phone based sex workers seems to be a hidden population and reaching them under any prevention programme may sometimes become a real challenge.

There is not much difference in the age profile of the sex workers over the periods of survey as the mean age of the FSWs mostly hovered around the age of 30-34 years. Educational differences over the rounds of survey were narrow as still more than two-third of the sex workers were illiterate in these districts. More interestingly, higher percentages of currently married women entered into this trade as reflected by the fact that percentage of currently married sex workers has increased over the three rounds of the survey and significant increases are observed in two districts, namely, Shimoga and Bangalore urban. Not many differences were observed in terms of duration into the sex work over the rounds of survey except that sex workers in Belgaum and Bellary were much older in this trade (with average 9 years of duration in sex work) than those interviewed in other three districts. Among all the five districts, about one third of the sex workers from Bangalore Urban (in almost all the three rounds) had duration of sex work of less than two years suggests the presence of lot many new sex workers in the district. The pattern of changes in mean weekly client volume over the rounds was quite erratic. But at the overall level, the mean weekly client volume has declined over the period of time across the districts.

Undoubtedly, there has been clear and consistent increase in the levels of awareness about HIV prevention methods (assessed by the response that consistent condom use reduces the risk of contracting HIV) and knowledge about sexually transmitted infections among the FSWs across the five districts and over the three rounds of survey. This increase may have certain impact on reducing the risks and vulnerabilities of contracting HIV/STI infections.

In order to assess the behaviour changes among the sex workers over the period of time, three measures were considered. These measures referred to the types of sexual partners, condom use in the last sex, and consistent condom used in every sexual activity. Results suggest that except Mysore, in all the other districts, FSWs reported

4 CONCLUSION AND IMPLICATIONS

having occasional clients have decreased from round-1 to round-3 survey. At the same time, proportion of FSWs reported having regular clients have also decreased across the districts with one exception that proportion of FSWs reported having regular clients has shown a very marginal increase between round 1 and 3 (88% to 90%) in Bangalore Urban. It is also evident from the result that an increased percentage of sex workers reported to have regular non-paying partners (husbands in case of currently married and boyfriend in case of never married) in Belgaum and Bellary comparison to other districts. In terms of condom use at last sex and consistently at every sex, there has been a consistent increase over the period of time. For example, the condom use at last sex with occasional and regular clients was over 90% of the FSWs reported to use condoms consistently while have sex with occasional and regular clients. While these percentages are very impressive, the levels of condom use with main regular partner remain very low despite the fact that it has shown some gradual increase over the period of time. The reduction in having regular and occasional clients, on one hand, and increase in the consistent condom use on the other put certain positive impact on reducing the prevalence of HIV among the FSWs.

As discussed before, during all the three rounds of the survey, biological sample was collected to know the prevalence of HIV and STIs among FSWs in Karnataka. Results are very encouraging on this part. The prevalence of STIs and HIV has significantly and consistently dropped over the period of time (except Bellary where prevalence of STI has shown some increase). Huge differences were observed in the STI prevalence in Bangalore urban where the prevalence dropped from 13% in round-1 to 4% in round-3. Similarly the prevalence of STIs in Belgaum dropped to 5% in round-3 compared to 12% in round-2. Among all the five districts the prevalence was lowest in Shimoga (2.3%) while highest in Mysore (13.2%). In case of HIV, while the prevalence was highest in Belgaum (22%) it was lowest in Bellary (6%). Belgaum, Mysore and Bellary were the three districts that have shown a significant decline in HIV prevalence over the three rounds.

Although the programme has made valuable efforts in bringing the behavioral changes in terms of increased condom use and reducing the prevalence of HIV and STIs, the findings of this study calls for expansion of programme in specific directions that suits to each of the geographical settings. For example, with increasing number of mobile based sex workers in Bangalore Urban and Shimoga, it is important to expand the programme to hidden sex workers while at the same an additional effort is required in Bangalore Urban to reach the new sex workers who have entered in this trade just two years back. Although, percentages of FSWs having occasional and regular clients are declining and indicating lesser chances of having sex with multiple partners, still the low condom use with regular non-paying partner is a concern in many of the districts and efforts are required to bring sex workers under intensified HIV/AIDS prevention education so that they can be informed about the consequences of low condom use with their main partner. Indeed the higher prevalence of STI/HIV in Bellary and HSV-2 in Mysore is a matter of great concern and it is important to intensify programmatic intervention in these districts to prevent the spread of HIV. Even some of the best practices from other districts like Bangalore Urban, Belgaum and Shimoga can be adopted by the other districts for the welfare of this most at risk population subgroup.

High risk MSM:

This report also discuss about the bio-behavioural changes taken place among MSM over the period of two IBBAs conducted in the five districts of Karnataka, identical to those for FSWs. There have been slight changes in the characteristics of MSM interviewed in two rounds of the survey. To mention a few, distribution of MSM who identify themselves with different gender identities such as Kothi, Panthi, Double Decker, Bisexual and Hijra/transgender have changed to some extent between two periods. While proportion of MSM who identified

themselves as Double Decker has increased in Belgaum, Bellary and Bangalore Urban districts, the other two districts like Shimoga and Mysore, recorded an increase in percentages of MSM who preferred to identify themselves as Bisexual. The age distribution of the sampled MSM remained more or less same within the each districts over the two rounds of the survey. On an average, MSM in these districts have had six or more years of schooling, and majority of them were never married.

The MSM interviewed in the second round of IBBAs were well informed about the HIV prevention related methods and symptoms of sexually transmitted disease which is one of the most critical components of the risk reduction. More than 95% of MSM in all the districts reported that consistent condom is a method of reducing the HIV related risks and vulnerabilities. Similarly, relatively higher percentages of MSM interviewed in these five districts could correctly identify the two symptoms of sexually transmitted infections and diseases. The increase in average age at initiation of first sex also indicated that MSM interviewed in the second IBBA seems to be aware of the plausible consequences of early sexual interactions and hence entering into this profession at relatively later ages.

There was an increase in percentages of MSM reported to have Regular male/Hijra partners while decrease in paying male partners in almost all districts, except Mysore where the case of just reverse. The sexual contacts with these partners' seems to be more protected than before as there has been an increase in consistent condom use with regular male/hijra partners in Belgaum, Bellary and Shimoga. However, there has been a modest decline in Bangalore Urban, while significant decline in Mysore in consistent condom use with such partners. While the levels of consistent condom use with paying male partner remain high in many of the districts, there has been increase in paid male/hijra partners across the districts. Despite of several efforts, the consistent condom use with regular female sexual partners in almost all the districts over the two rounds of the survey and reiterated the fact that some focused efforts are required to increase the consistent condom use with regular female sexual partners. The level of consistent condom use remained lowest in Bellary (just 4%) to highest in Bangalore Urban (13%).

Prevalence of Syphilis and high-titre Syphilis among MSM recorded a decline in all the districts over the two rounds of IBBAs. Less than one percent of MSM in Belgaum and Shimoga were found to be Syphilis positive in second round of the IBBA while the prevalence of Syphilis was as high as 10 percent in these districts during the first round of the survey. Decreases have also been observed in the prevalence of HIV across the districts over the two rounds of IBBAs with one exception that the HIV prevalence has shown a marginal increase of two percent in Shimoga between the two rounds. However, the survey recorded a consistent decline in the HSV-2 prevalence in all the districts.

At the nutshell, although the results show positive changes among MSM-T in terms of risk reduction, HIV/AIDS prevention program among such a high-risk group still need to address the low condom use with their regular female partner. Findings also highlight the fact that although the testing of HIV among MSM-T has increased, as about 80-90% MSM-T reported that they have been ever tested for HIV, the voluntary HIV testing is still very low in some of the districts (about 50% in Belgaum and Shimoga). The program should also make efforts to increase voluntary testing for HIV among high risk MSM.

Clients of FSWs:

Clients of female sex workers are one of the important target group populations which play a major role in the spread of the HIV infection from a small group of sex workers to the larger number of sexual partners including their spouses, and regular and casual sex partners and, therefore, are considered as "bridge population". During its' two rounds of

survey, IBBA collected data from five districts of Karnataka, namely, Belgaum, Bellary, Shimoga, Bangalore Urban and Mysore. Other than these five districts, one round of IBBA was also conducted in Bagalkot district.

Findings do not reveal any major differences in the age structure of clients over the two rounds of the survey. Similarly, half of the clients in Mysore and about one-third to one-fourth clients were non-literate and have shown some increase from the previous round indicating the fact that there is a general decline in proportion of literate clients. Result also indicated a general increase in the proportion of clients who were married at the time of interview from round-1 to round-2 in almost all districts. The increase in currently married clients suggests the risk of having multiple sexual partners of the clients in these districts.

Although result indicated that percentage of non-literate clients have shown an increase across the districts, the level of awareness about HIV has increased in the second round of IBBA compared to previous round. Over 80 to 90 percent clients in the selected districts were aware of HIV/AIDS and just 5-6% clients (except those interviewed in Mysore) perceived themselves at the risk of getting HIV infection by the second round of the survey.

Four key variables, namely, age at initiation of sexual activities, types of sexual partners, experience of anal sex, and last time/ consistent condom use with different partners were used to assess the behavioural changes among the clients of FSWs in the selected districts of Karnataka. Findings suggest better behavioural outcomes among the clients of FSWs during the second round of IBBA. For example, the mean age at initiation of first sex has reported an increase between the two rounds, there has been a reduction in proportion of clients having occasional and regular FSW partners, decline in experiencing anal sex, and increase in condom use during the last as well as each sexual interaction with occasional and regular FSW partner. However, despite all these positive changes, the extent of condom use with main female sexual partners (wife in case of currently married and girlfriend or other live-in partner in case of never married or widower/divorced/separated).

The second round of the survey recorded decline in the prevalence of HIV/STI among the clients in the districts covered under the survey. The prevalence of STI (syphilis) declined from 2.9%-5.8% to 0.8%-2.5% between round-1 and round-2 respectively. The prevalence of high-titre syphilis also declined in these districts and even reached to the mark of zero percent in Bellary during the IBBA round-2. Although a general decline in the prevalence of HIV has been observed in Belgaum, Shimoga, and Mysore districts over the two periods, the levels of HIV prevalence remained more or less same in Bellary and Bangalore urban districts. Notwithstanding, the prevalence of HSV-2 has shown a consistent decline across the districts.

In-spite of high exposure to HIV information, consistent condom use by the clients with main female sexual partner remained very low. Therefore, a large scale HIV/AIDS campaign emphasizing on the needs of consistent condom with main female sexual partner is required to avoid any increase in getting new HIV infection.

46 Integrated Behavioural And Biological Assessment

									4	bb	itior		Jdic	ato	rs al	Ø	an	cef	OLF	SWS												
													FS	W-1: B	elgaum	Distric	ಕ															
		:							Typold	gy					W	an age	e at firs	Me	an age	at sex	Mea	n dura	ation	W	ean no	. of	Ever	· had a	nal	Exp	erienc ical fo	be de
		z		T	lome		Bı	othel		Publ	ic Plac	e	μJ	one		se	x	M	ork de	sbute	.ii	sex w	ork	cli	ents/ v	veek		sex		to sex	in pas nonths	t 12
	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3 I	R1 R	12 R	13 R.	l R2	2 R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
Age of the responder	nts																															
<25	68	43	48	24.2	18.6	24.8	41.4	31.7	18.8	34.4	47.3	46.7	0.	2.4	9.7 15	.4 15	.1 14.	9 18.0	0 18.	2 18.5	3.1	2.8	3.1	20.3	15.4	13.0	11.3	9.5	1.9	7.1	7.2	3.9
25-29	106	85	90	21.6	16.5	19.2	38.9	29.7	10.3	39.5	50.3	55.3	0,	3.6 1.	5.3 14	.4 14	.8 15.	5 20.0	0 20.	9 22.3	6.3	5.8	4.5	19.7	18.1	14.9	5.4	15.3	0.	10.6	13.0	11.5
30-34	69	78	75	33.1	19.8	13.9	29.7	22.8	10.7	37.2	54.8	51.6	0.	2.6 1.	3.9 14	.8 15.	.2 15.	2 23.1	2 23.	1 24.8	1 7.7	8.4	6.5	14.3	15.8	11.8	12.6	11.9	5.8	10.9	10.4	6.2
35-39	82	101	113	36.0	18.0	6.8	25.4	21.2	9.8	38.6	55.8	70.5	0.	5.0 1(0.8 15	.1 14	.8 15.	0 24.	3 25	2 25.7	7 11.4	10.9	10.6	11.5	13.5	11.1	11.3	16.2	7.9	7.9	11.0	5.0
40+	88	98	96	32.7	26.8	27.8	31.8	19.9	4.1	35.5	52.3	59.9	0.	1.0	8.2 14	.4 14.	.9 15.	6 23.9	9 25.	2 29.4	18.1	18.9	13.2	10.0	12.1	10.1	5.6	10.5	4.9	4.3	8.2	11.4
Education Status																																
Illiterate	339	316	299	27.9	21.1	21.1	34.9	24.7	8.0	37.1	52.3	51.6	0.	1.9	9.4 14	.7 14.	.7 15.	2 22.1	2 23.	2 24.9	9.5	11.4	9.3	16.0	15.0	12.0	8.8	12.9	5.1	7.2	10.2	7.4
Literate	73	89	124	34.2	17.1	10.9	27.7	21.9	14.2	38.1	54.1	58.0	0.	6.9 10	6.9 15	.1 15	.7 15.	3 20.4	4 23.	1 24.5	7 9.6	7.2	6.0	11.6	13.9	12.1	8.7	13.8	3.0	12.9	10.3	9.0
Marital status																																
unmarried	103	86	21	28.4	23.4	22.6	40.6	30.5	15.1	31.0	44.9	48.8	0.	1.2 1	3.6 14	.8 14	.4 16.	7 19.	7 17.	2 18.2	\$ 10.5	16.1	12.0	18.6	17.4	13.5	6.8	14.2	0.	4.1	5.9	0.
currently married	72	147	176	26.6	16.4	15.5	28.0	21.8	9.6	45.4	57.0	61.2	0.	4.8 1.	3.3 14	.9 15.	5.2 15.	1 24.9	9 25.	2 26.3	\$ 7.3	7.6	6.1	12.6	13.2	10.6	13.3	16.7	5.3	9.0	13.0	9.8
separated/wid- owed/ deserted	159	134	158	30.8	17.4	13.6	22.3	19.7	7.7	46.9	59.9	65.2	0.	3.1 1	3.5 14	.7 14	.9 15.	2 24.	0 26.	1 26.8	9.7 8	7.7	7.2	14.4	14.9	12.5	9.7	7.6	4.9	12.0	10.5	9.7
others	79	37	68	29.5	38.2	33.6	52.1	34.0	12.9	18.4	27.7	51.5	0.	0.	2.1 14	.8 15.	.3 15.	3 17.8	8 18.	0 18.4	13.5	18.4	15.5	14.8	14.6	14.1	5.4	16.4	2.8	5.1	8.1	1.4
Typology Final																																
Home	121	82	76												14	.4 14.	.4 15.	2 21.3	3 21.	8 22.3	11.7	12.9	10.8	11.8	14.5	11.6	10.0	8.7	3.7	6.1	7.4	6.5
Brothel	139	97	41												15	.0 15.	.3 15.	4 21.6	5 22.	6 24.5	8.7	9.2	5.6	20.0	16.9	15.2	7.0	6.0	0.	3.7	10.0	4.5
Public Place	154	213	256												14	.8 15	.0 15.	3 22.5	7 23.	8 25.4	8.6	10.3	8.4	13.7	14.2	11.5	9.5	17.4	5.6	13.9	12.0	7.5
Phone	0	12	49													. 15.	.2 15.	0	. 26.	1 25.5		7.1	6.4	•	11.4	12.5	0.	25.2	3.8	0.	0.	15.3

47 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HI

FSW-1: Bellary District

									Typc	logy						Moon o	ot 6	ect N	o noor			h nool	and i con		Moon	Je ee				Ē	perier	ced
		z			Home			Brothe	_	Put	olic Pla	Ice	P	hone			ige at 1	121	work	ge at se debute	2 X	in sex	work	-	clients	week	Eve	r had a	ınal sez	to se	ysicar ex in p montl	orce ast 12 is
	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	RI	R2 I	33 F	KI F	(2 R	3 R.	1 R	2 R3	3 R	1 R	2 R3	R1	R2	R3	R1	R2	R3
Age of the respond	ents																															
<25	89	101	73	43.1	34.8	41.3	18.8	33.2	11.5	38.1	30.4	39.4	0.	1.7	7.8	14.9 1	5.3 1	5.8 1	6.9 1	8.3 18	3.1 3	6.	7 3.	.2 19	.7 26	.6 18.	0 9.	0 13.	5 20.3	3 19.5	21.4	6.9
25-29	112	80	76	61.3	47.7	42.9	7.5	21.7	2.9	31.2	29.5	37.5	0.	1.0	16.8	14.8 1	5.2 1	5.1 2	1.1 2	0.9 2(.3 5	.3	5.8 6.	.4 11	.9 21	.3 11.	1 21.	9 14.	1 23.3	3 17.6	8.7	9.9
30-34	82	65	69	68.8	52.4	38.7	1.8	8.2	1.5	29.4	35.9	45.0	0.	3.5	14.8	15.4 1	4.8 1	5.1 2	2.8 2	3.6 23	3.3 8	.1	3.1 8.	.1 8	.6 15	.11 6.	0 18.	0 16.	2 15.3	14.7	3.6	12.2
35-39	94	74	96	61.9	52.3	27.7	3.8	4.6	0.	34.3	40.9	60.2	0.	2.2	12.0	14.4 1	4.8 1	5.1 2	5.0 2	5.2 2(5.6 11	.1 1.	.0	.6 10	.3 13	.5 9.	4 25.	5 6.	8 19.0	16.9	5.1	7.4
40+	58	91	85	79.7	59.1	39.6	0.	3.9	3.7	20.3	35.2	49.4	0.	1.8	7.3	14.8 1	5.1 1	5.1 2	7.3 2	7.4 24	4.9 18	.1 16	5.1 17.	.4 6	6.3 10	.1 9.	9 21.3	2 6.	6 40.0	5 13.1	5.5	6.7
Education Status																																
Illiterate	287	315	295	59.9	52.1	36.7	6.1	12.2	1.5	34.0	33.9	51.5	0.	1.8	10.3	14.6 1	4.8 1	4.8 2	2.4 2	3.2 23	3.2 8	5	0.3 10.	.0 11	.7 16	.7 10.	6 20.3	2 12.	9 22.	1 17.8	9.7	8.0
Literate	145	94	105	66.0	37.8	39.7	8.1	24.5	9.8	25.9	35.3	35.0	0.	2.5	15.5	15.3 1	15.9 1	6.4 2	2.0 2	1.7 2.	2.1 8	.3	6.4 6	.8 11	.5 21	.4 14.	8 17.	5 6.	2 29.	14.9	9.3	9.7
Marital status																																
unmarried	128	63	35	76.2	46.0	29.3	9.7	21.2	10.9	14.1	32.9	50.7	0.	0.	9.2	14.9	15.1 1	6.2 1	8.9 1	7.9 1	9.0 13	5.0	7 7	.5 12	6 23	.3 24.	9 25.	4 10.	9 38.3	3 22.3	12.7	11.2
currently married	100	163	144	54.4	50.9	37.0	7.5	12.3	2.4	38.0	34.4	47.7	0.	2.4	12.9	14.7	15.2	5.0 2	4.2 2	5.3 20	5.5 4	6.9	5.1 4	6 6.	9.9 16	.0 10.	2 9.	6 11.	4 19.	1 12.3	10.2	8.2
separated/wid- owed/ deserted	161	106	79	50.6	35.7	17.2	6.4	28.0	9.4	43.0	33.2	56.1	0.	3.1	17.4	14.8 1	14.7	4.7 2	5.0 2	6.2 2	7.2 5	6.9	5.4 6	.4 12	4 21	.2 12.	2 20.	1 9.	5 27.3	3 16.5	8	8.9
others	46	79	141	74.7	63.4	51.5	0.	0.	0.	25.3	35.5	40.7	0.	1.1	7.8	14.9 1	15.4 1	5.5 1	7.7 1	7.5 13	7.8 12	9 15	.9 15	.6 11	.1 12	.8	5 19.9	9 13.	8 23.4	11.4	6.8	7.8
Typology Final																																
Home	268	200	150													14.9 1	5.2 1	5.5 2.	2.0 2	3.1 2.	1.6 10	5 1.	.8 9.	8 6.	.6 12	.9 11.	8 20.	2 10.3	5 24.4	14.6	8.7	4.9
Brothel	30	63	15													15.8 1	15.2 1	5.9 2	0.5 2	3.2 2:	3.0 3	6.	.2 4.	.1 45	.7 41	.4 33.	8 10.	1 2.	7 14.0	31.5	10.1	21.5
Public Place	137	140	189													14.5 1	4.8 1	5.0 2	3.2 2.	2.3 23	3.6 6	.3 10	.0 9.	.5 10	.3 15	.0 10.	4 19.	3 17.	0 23.9	17.6	9.6	9.7
Phone	0	8	47														14.9	5.0	. 2	5.5 24	4.5	•	.9 7.	.2	•	.4 10.	0	0	0 25.9	0.	28.4	11.1

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District
FSW-1: Shimoga

									Typol	ogy							د	;			;					ę				Expe	rience	ч
		z		F	Home		B	cothel		Publ	ic Plac	9	Ρh	one	2	lean ag se	e at fir x	w Mt	ean age vork de	e at sex sbute	in	an dur 1 sex w	ation ork	clie	ean no. ents/ w	ot ëek	Ever h	ad anal	sex	physion physion physion physion physion physion physical	cal tor in past onths	се 12
	RI	R2	R3	R1	R2	R3	R1	R2	R3	RI	R2	R3 I	R1 I	R2 R	33 F	U R	2 R3	R1	R2	R3	RI	R2	R3	R1	R2	R3	RI	R2	R3	RI	R2	R3
Age of the responde	ents																															
<25	71	45	30	46.1	54.7	3.3	11.9	0.	0.	42.0	30.1	24.5	.0	15.3 7	72.2 1	6.4 16	5.4 16	.4 19.	.1 19.	7 20.4	5 2.3	2.3	2.0	5.9	13.6	7.8	11.9	17.3	8.3	16.3	16.7	34.9
25-29	90	87	85	60.0	50.5	8.1	3.6	0.	0.	36.4	31.5	25.5	.0	18.1 6	6.3 1	6.6 It	5.3 16	.0 23.	.0 23.	5 23.5	9 3.7	3.2	3.2	6.5	10.1	8.4	20.6	19.1	17.0	25.7	4.6	34.3
30-34	81	82	90	45.5	44.9	13.3	5.7	1.1	2.4	48.8	32.9	32.7	0.	21.1 5	51.6 1	6.7 15	5.7 15	.6 26.	.3 26.	8 26.8	3 5.0	4.4	5.0	5.2	10.7	6.7	13.9	21.1	14.9	18.4	7.1	33.5
35-39	81	94	95	53.4	54.2	14.4	2.0	0.	3.6	44.7	30.4	34.5	.0	15.4 4	47.4 1	6.7 16	5.0 16	.0 29.	.7 29.	9 30.	7 6.9	6.3	5.9	5.2	10.4	6.2	10.1	25.6	9.1	13.4	11.6	29.5
40+	71	66	93	65.9	55.5	17.3	3.6	0.	8 ⁰	30.5	39.5	29.1	0.	5.0 5	52.8 1	6.6 1:	5.6 17	.1 32.	.8 34.	2 36.	0 10.1	9.4	7.2	4.3	9.5	5.6	15.2	13.8	13.6	14.6	6.8	18.1
Education Status																																
Illiterate	243	229	250	52.7	52.9	14.6	3.9	0.	1.8	43.4	34.4	34.9	.0	12.7 4	1 18.7	6.3 15	5.3 15	.8 26.	.6 29.	1 30.0) 6.1	6.2	5.4	5.4	10.2	6.7	12.6	17.4	14.2	17.7	9.8	29.2
Literate	150	177	142	56.5	50.6	9.3	6.8	S	1.3	36.7	31.9	21.0	.0	17.0 6	\$8.3 1	7.1 16	5.8 17	.0 25.	.3 26.	2 26.	9 4.6	4.7	4.7	5.7	11.0	6.8	17.9	22.3	10.4	17.7	7.0	28.4
Marital status																																
unmarried	32	13	8	50.1	49.9	9.1	18.2	0.	9.1	31.6	27.9	27.2	0.	22.2 5	54.7 1	8.7 18	8.8 20	.9 19.	.8 19.	8 26.	5 3.9	3.2	3.3	7.0	11.2	7.0	6.0	18.6	21.2	16.3	25.7	33.8
currently married	178	203	258	57.8	54.1	9.2	3.8	i.	1.4	38.4	30.0	30.7	0.	15.4 5	58.6 1	6.6 16	5.1 16	.1 26.	.5 27.	8 28	3 5.0	5.2	4.8	4.7	9.9	6.7	17.9	22.5	11.4	16.6	8.6	37.2
separated/widowed/ deserted	184	190	127	51.8	49.7	19.8	3.6	0.	1.5	44.6	37.2	29.1	.0	13.1 4	19.6	6.2 1:	5.7 16	.1 26.	.8 28.	4 30.	1 6.4	. 6.0	5.8	5.8	11.2	6.9	12.9	16.4	16.0	19.6	7.4	12.6
others	1	0	0	0.	0.	0.	100.0	0.	0.	0.	0.	0.	0.	0.	.0	7.0		. 28.	0.		. 2.0		·	30.0	·	•	0.	0.	0.	0.	0.	0.
Typology Final																																
Home	213	211	50												1	6.5 10	5.0 16	.6 26.	.7 28.	1 29.	1 5.6	5.5	6.8	4.6	10.4	6.6	12.6	17.1	8.0	19.7	7.1	17.3
Brothel	20	1	9												1	8.6 2(0.0 15	.7 22.	.4 29.	0 29.4	5 6.1	3.0	6.8	9.4	6.0	7.4	19.3	100.0	23.9	11.7	0.	34.3
Public Place	160	135	118												1	6.5 15	5.7 15	.8 25.	.8 28.	0 28.5	9 5.3	5.9	5.3	6.1	11.0	7.2	16.7	20.3	19.9	16.8	12.0	29.0
Phone	0	59	219													. 16	5.5 16	4	. 26.	5 28.		4.9	4.6		9.8	6.5	0.	24.9	10.3	0.	6.3	31.8

49 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

FSW-1: Bangalore Urban District

									Typold	ogy					2	on no	ant fu	M t		a at cav	M	and an	otion	Me	04 400	Je S				Expo	cal for	pa
		z		н	Home		Bı	rothel		Publ	lic Plac	e	Pŀ	lone	4	St and a	ex		work d	ebute		n sex w	ork	clie	ents/ w	eek	Ever h	lad ana	l sex	to sex m	in pas	t 12
	RI	R2	R3	R1	R2	R3	RI	R2	R3	R1	R2	R3	RI	R2	R3 I	KI H	22 R.	3 R.	1 R2	R3	RI	R2	R3	R1	R2	R3	RI	R2	R3	RI	R2	R3
Age of the responde	ents																															
<25	146	190	133	11.9	22.7	2.2	5.0	11.3	2.0	78.8	56.0	42.3	4.3	10.0	53.6 1	6.5 1	6.5 10	5.5 15	9.6 19	.7 20.	2 1.8	3 1.6	1.6	11.2	11.5	11.5	10.3	2.1	11.4	8.4	9.4	23.1
25-29	153	162	166	14.0	30.3	5.8	4.0	6.9	۲.	77.4	51.3	35.0	4.5	11.5	58.5 1	6.8 1	6.1 10	5.1 24	4.2 24	.2 23.	9 2.4	5 2.8	3.0	10.4	10.1	10.3	10.8	7.2	14.5	9.0	8.0	28.8
30-34	146	139	131	12.8	32.2	6.5	4.2	5.6	8.	77.9	50.6	33.5	5.0	11.6	59.2 1	6.4 1	5.8 15	5.8 26	5.5 27	.8 28.	7 4.	5 3.5	3.3	10.0	8.4	8.6	8.7	7.9	11.2	15.3	7.0	25.7
35-39	153	164	180	13.4	30.3	6.4	3.0	6.3	2.4	78.1	52.0	31.5	5.4	11.3	59.7	1 12.8	6.0 10	5.1 3(31.9	.4 31.	7 5.4	4 5.1	5.0	8.9	8.5	8.0	5.3	11.0	14.7	7.1	4.5	24.8
40+	83	102	107	19.4	31.6	12.3	1.8	4.7	1.0	77.2	51.1	31.9	1.7	12.6	54.8	1 1.7	5.6 15	5.3 37	7.1 32	7 35.	.3 6.1	5.9 C	7.8	8.2	6.8	7.0	9.5	9.4	16.8	7.0	3.9	18.2
Education Status																																
Illiterate	326	376	328	12.4	28.7	9.4	2.5	7.5	1.3	83.2	50.8	39.2	2.0	13.0	50.1 1	6.2 1	5.6 1!	5.4 26	5.9 27	.2 28.	0 4.	2 4.6	4.3	10.2	9.6	8.9	6.8	9.1	13.8	7.1	7.9	23.1
Literate	339	381	389	15.5	29.2	3.8	5.1	7.2	1.5	72.8	54.2	30.9	6.5	9.5	63.8 1	7.7 1	6.4 10	5.5 26	5.8 25	.7 27.	5 3.	7 3.5	3.8	9.6	9.1	9.5	9.9	5.2	13.7	10.8	5.9	25.9
Marital status																																
unmarried	35	63	27	18.7	23.4	3.9	6.5	7.6	0.	65.8	61.9	53.7	9.1	7.1	42.4 1	7.7 1	8.0 19	9.3 15	9.4 15	.8 21	0 1.5	9 2.2	1.5	11.8	11.6	10.4	10.3	2.2	6.9	20.8	9.1	11.3
currently married	294	451	504	16.2	31.9	5.6	4.4	7.9	1.5	73.8	46.8	33.4	5.6	13.5	59.5	1 6.9	6.0 15	5.9 26	5.7 26	.6 27.	7 3	7 3.5	3.9	9.5	9.0	9.3	6.5	7.8	14.2	7.8	8.1	28.4
separated/widowed/ deserted	350	243	187	11.2	24.9	8.7	3.0	6.2	1.5	82.7	60.7	35.7	3.0	8.2	54.1	1 12.0	1:55 1:	5.9 27	7.5 27	.9 28	9 4	3 4.8	4.8	10.1	9.3	8.7	10.7	7.4	13.4	9.9	4.0	16.0
others	-	0	0	50.0	0.	0.	0.	0.	0.	50.0	0.	0.	0.	0.	0.	6.5		. 26	5.5		. 4.	10		5.0	·	·	0.	0.	0.	0.	0.	0.
Typology Final																																
Home	94	219	46													6.3 1	6.0 10	5.0 27	7.8 27	.0 29.	0 3.	7 4.3	6.1	9.4	7.5	6.4	12.2	7.6	14.9	7.6	5.6	28.2
Brothel	26	56	10												-	6.4 1	6.9 10	5.1 25	5.6 25	5.5 28.	6 3.	2 3.1	3.6	9.5	9.8	17.1	10.6	2.6	5.2	21.4	6.8	16.6
Public Place	530	397	249													7.0 1	5.8 10	5.3 26	5.6 26	3 27.	4 4.	1 4.1	3.7	10.0	10.5	10.5	8.1	7.9	15.7	9.3	7.4	27.7
Phone	30	85	413													9.1 1	6.3 1!	5.8 27	7.6 26	.4 27.	8 2	3 4.3	4.0	9.72	8.5	8.5	10.2	5.7	12.6	9.6	7.6	22.5

50 Integrated Behavioural And Biological Assessment

District	
W-1: Mysore	
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									Tvnolo	ß																				Evnor	ioncod	-hwei
		z			Home		B	rothel		Publ	ic Place		hq	one	W	ean age	at first s	ex	Aean ag work d	e at sex ebute	W	ean dur sex w	ation in ork	Mea	n no. oi weel	clients/	Ever	had an	ıl sex	cal fo	rce to s	ex in tths
	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3 I	R1 F	1 22	33 R	R	2 R:	3 R1	R2	R3	RI	R2	R3	R1	R2	R3	RI	R2	R3	R1	R2	R3
Age of the responde:	ents																		-													
<25	84	62	76	17.9	9.0	23.1	0.	5.3	8.7	82.1	85.7	68.2	0.	0.	.0 1	5.7 10	6.1 16	5.7 19	19	.1 19	.5 2.	2 2.	3 2.	5 9.4	4 11.	7 8.6	4.8	7.0	0.	0.	34.2	0.
25-29	123	100	129	12.2	6.4	26.6	1.6	1.9	5.4	86.2	91.7	65.5	0.	0.	2.6 1	6.2 1:	5.7 15	7.4 23	.3 23	.0 22	.8 3.	.1 3.	8 3.	8 8.6	6 10.4	3 7.6	4.9	3.7	3.2	0.	11.9	2.1
30-34	90	104	82	7.8	2.5	30.4	0.	3.6	1.2	92.2	93.9	68.3	0.	0.	.0 1	6.3 1.	5.8 15	7.3 26	.2 24	.6 26	.5 4.	.6 6.	4 4.	2 7	1 8.	4 7.6	14.4	6.4	0.	0.	17.4	3.6
35-39	78	106	75	10.3	6.8	24.3	0.	3.8	3.8	89.7	89.4	71.9	0.	0.	.0	6.3 10	6.0 15	7.1 29	1.8 27	.5 29	.9 6.	.1 8.	1 5.	6 7.5	5 7.:	7 8.1	5.1	4.4	0.	0.	14.9	2.2
40+	54	53	63	9.3	3.0	34.8	0.	5.9	0.	90.7	91.1	65.2	0.	0.	.0	6.2 1.	7.4 15	7.6 32	.9 29	.8 34	.1 8.	.9 11.	5 8.	1 6	1 7.:	7 6.4	7.4	3.3	ΰ	0.	17.5	Ŀ.
Education Status																																
Illiterate	324	318	291	11.4	4.1	27.9	.6	3.8	4.4	88.0	92.1	67.2	0.	0.	.6 1	5.9 1.	5.9 15	7.1 25	.6 24	.9 26	.5 4.	.7 6.	4 4.	9.8 6	.6 0	1 7.6	6.2	5.8	1.4	0.	17.8	1.6
Literate	104	105	134	12.5	9.7	26.7	0.	3.7	3.6	87.5	86.6	68.5	0.	0.	1.2 1	6.8 10	6.7 15	7.5 25	.0 24	.5 24	.3 4.	0 5.	7 3.	9 7.1	8 9.	1 7.8	10.6	2.5	.4	0.	18.5	2.2
Marital status																																
unmarried	33	71	56	6.1	6.2	16.1	3.0	3.3	6.2	90.9	90.5	77.7	0.	0.	.0	6.5 1	5.9 17	7.7 19	.3 22	.3 25	.1 5.	.2 6.	.7 4.	0 8.{	8 12.	1 7.6	3.0	7.4	1.2	0.	23.8	1.7
currently married	178	181	308	11.2	6.7	28.1	9.	2.5	4.5	88.2	90.7	66.3	0.	0.	1.1 1	6.5 10	6.3 15	7.3 26	.0 25		.6 3.	.8 5.	6 4.	5 8.	1 8.0	0.7.9	8.4	3.7	1.1	0.	9.2	1.7
separated/widowed/ deserted	218	171	59	12.8	3.7	35.8	0.	5.4	0.	87.2	90.9	64.2	0.	0.	.0	5.8 1	5.9 16	5.3 26	.0 25	5 27	.4 5.	.0 6	.7 5.	4 7.:	7 9.:	3 6.6	6.9	5.3	9.	0.	24.6	2.2
others	0	1	2	0.	26.2	0.	0.	0.	0.	0.	73.8 1	0.00	0.	0.	0.		3.5 15	0.7	. 20	.0 26	0	. 11.	.1 9.	0	. 6.	2 10.0	0.	0.	0.	0.	26.2	0.
Typology Final																																
Home	50	23	117												-	6.2 10	6.1 16	5.9 24	.9 23	.6 25	.7 4.	.1 5.	8.5.	4 5.8	8 6.	8.6	6.0	14.5	2.3	0.	23.5	2.8
Brothel	2	16	17												-	5.5 1!	9.1 15	3.3 24	.0 24	.7 22	.3	5 7.	6 3.	9 12.(0 13.0	6.7	50.0	7.3	3.8	0.	25.6	6.9
Public Place	377	385	287												-	6.1 1	5.9 15	7.3 25	.6 24	.9 26	.1 4.	.6 6.	2 4.	3 8.2	2 9.1	2 7.4	7.2	4.3	.4	0.	17.2	1.1
Phone	0	0	3													•	. 15	7.7		. 22	9		. 4.	6		. 5.2	0.	0.	0.	0.	0.	0.

51 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

FSW-1: Mysore District

		2							Typo	logy					-	an an	at fuct		Mean a	ge at sex	M	an dur	ation in	Mea	1 no. of	clients/	D	and had		Experi	enced p	hysi-
		Z			Home			Brothel		Pu	blic Plac	e	£.	hone	5	viean ag	e at nrst	sex	work	debute		sex w	ork		week		EVer	nad and	11 sex	cal roi past	ce to se 12 mon	x m ths
	RI	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	RI	R2 I	33 I	KI F	23	3 R1	R2	R3	R1	R2	R3	RI	R2	R3	R1	R2	R3
Age of the respond	lents																				-											
<25	84	62	26	17.9	9.0	23.1	0.	5.3	8.7	82.1	85.7	68.2	0.	0.	0.	15.7	16.1	.6.7	9.2	9.1 19	.5 2	2 2	3 2.5	9.4	11.7	8.6	4.8	7.0	0.	0.	34.2	0.
25-29	123	100	129	12.2	6.4	26.6	1.6	1.9	5.4	86.2	91.7	65.5	0.	0.	2.6	16.2	15.7	7.4 2	3.3 2	3.0 22	3	1 3	3.6	8.6	10.8	7.6	4.9	3.7	3.2	0.	11.9	2.1
30-34	90	104	82	7.8	2.5	30.4	0.	3.6	1.2	92.2	93.9	68.3	0.	0.	0.	16.3	15.8	7.3 2	6.2 2	4.6 20	5.5 4	6 6	4.2	1.7	8.4	7.6	14.4	6.4	0.	0.	17.4	3.6
35-39	78	106	75	10.3	6.8	24.3	0.	3.8	3.8	89.7	89.4	71.9	0.	0.	0.	16.3	16.0	7.1 2	9.8	7.5 29	9 6.0	1.8	.1 5.6	7.5	2.7	8.1	5.1	4.4	0.	0.	14.9	2.2
40+	54	53	63	9.3	3.0	34.8	0.	5.9	0.	90.7	91.1	65.2	0.	0.	0.	16.2	17.4	17.6	32.9 2	9.8 3.	1.1 8	11 6	5 8.1	6.]	7.7	6.4	7.4	3.3	i5	0.	17.5	:5
Education Status																																
Illiterate	324	318	291	11.4	4.1	27.9	9.	3.8	4.4	88.0	92.1	67.2	0.	0.	.6	15.9	15.9	7.1 2	5.6 2	4.9 26	.5 4	7 6	4 4.9	8.0	9.1	7.6	6.2	5.8	1.4	0.	17.8	1.6
Literate	104	105	134	12.5	6.7	26.7	0.	3.7	3.6	87.5	86.6	68.5	0.	0.	1.2	16.8	16.7	7.5	5.0 2	4.5 24	1.3 4	0 5	7 3.9	7.8	9.4	7.8	10.6	2.5	.4	0.	18.5	2.2
Marital status																																
unmarried	33	71	56	6.1	6.2	16.1	3.0	3.3	6.2	90.9	90.5	77.7	0.	0.	0.	16.5	15.9	7.7	9.3 2	2.3 25	6.1 5	2 6	7 4.0	8.8	12.1	7.6	3.0	7.4	1.2	0.	23.8	1.7
currently married	178	181	308	11.2	6.7	28.1	9.	2.5	4.5	88.2	90.7	66.3	0.	0.	1.1	16.5	16.3	7.3 2	6.0 2	5.2 25	6.63	eć ru	.6 4.5	.8	8.0	7.9	8.4	3.7	1.1	0.	9.2	1.7
separated/widowed/ deserted	218	171	55	12.8	3.7	35.8	0.	5.4	0.	87.2	9.09	64.2	0.	0.	0.	15.8	15.9	l6.3 2	6.0 2	5.5 27	.4 5	0	7 5.4	7.7	9.3	6.6	6.9	5.3	9.	0.	24.6	2.2
others	0	1	17	0.	26.2	0.	0.	0.	0.	0.	73.8	100.0	0.	0.	0.	•	13.5	7.0	•	0.0 26	0.	. 11	.1 9.0		.9	10.0	0.	0.	0.	0.	26.2	0.
Typology Final																																
Home	50	23	117													16.2	16.1	6.9	24.9 2	3.6 25	4	1 5	8 5.4	5.5	6.3	8.6	6.0	14.5	2.3	0.	23.5	2.8
Brothel	2	16	17													15.5	19.1	8.3	24.0 2	4.7 22	3	5 7	6 3.5	12.0	13.6	6.7	50.0	7.3	3.8	0.	25.6	6.9
Public Place	377	385	287													16.1	15.9	7.3 2	5.6 2	4.9 20	.1 4	6 6	2 4.3	8.5	9.2	7.4	7.2	4.3	.4	0.	17.2	1.1
Phone	0	0														•	-	7.7	•	. 2	9.		. 4.9			5.2	0.	0.	0.	0.	0.	0.
																				-												

52 Integrated Behavioural And Biological Assessment

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									Typolo	25								_			2	-	-	Marr	1. 2	1-4				Experie	nced pl	nysi-
		z			Home		B	rothel		Publ	ic Place		Ph	ione	M	ean age	at first s	ex ex	work de	at sea bute	DTM7	sex wol	k I	MICAL	week	101112/	Ever h	iad anal	sex	cal for past 1	ce to sex 2 mont	x in ths
	R1	R2	R3	R1	R2	R3	R1	R2	R3	RI	R2	R3 I	R1 I	R2 I	R3 F	KI B	12 R	3 R1	I R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
Age of the responde:	nts																															
<25	68	43	48	97.8	85.6	96.0	82.6	74.6	93.2	31.8	33.2	38.5	18.3 5	52.7	92.0 9	1.7 10	0.0	.3 78	.4 86.	2 88.	4 28.3	16.7	17.5	9.1	7.1	0.	6.5	4.9	NA	5.7	2.3	NA
25-29	106	85	90	92.6	91.6	98.9	84.5	84.0	96.6	46.0	45.4	51.7	25.5 (53.3 5	96.9	6.4 10	0.0 10	0.0 84	.7 89.	4 95.	8 43.0	28.1	20.8	3.4	10.9	3.2	4.7	3.5	NA	2.0	4.6	NA
30-34	69	78	75	88.5	84.1	96.5	70.6	72.4	94.1	36.3	34.8	57.0	41.0	59.2	95.1 9	9.0 10	0.0 10	0.0 85	.7 87.	1 96.	4 36.0	28.0	25.6	15.3	9.6	3.9	10.0	1.3	NA	10.6	0.	NA
35-39	82	101	113	92.2	90.8	95.2	71.3	78.4	93.0	38.0	51.7	55.7	47.0 (53.7 5	95.8 9	3.2 9	8.0 9	3.3 86	.8 84	1 95.	9 28.4	38.2	17.1	5.6	17.0	3.7	8.7	6.1	NA	6.2	2.1	NA
40+	88	98	96	84.0	90.6	96.6	76.1	82.9	90.2	41.1	37.9	59.7	46.2 ¢	55.1	98.3 9	02.6 10	0.0	9.0 83	.9 86.	7 95.	1 31.1	19.6	29.6	8.5	13.7	11.1	3.1	3.1	NA	0.	1.1	NA
Education Status																																
Illiterate	339	316	299	89.9	88.3	96.8	75.7	79.2	93.0	36.2	43.2	58.0	34.2 6	51.2	97.1	4.1 9	9.4 9.	3.7 82	7 87.	0 95.	2 33.0	27.9	21.4	8.9	15.3	5.5	6.4	4.5	NA	5.7	2.2	NA
Literate	73	89	124	95.1	91.8	96.2	85.3	78.1	94.4	55.6	38.6	45.7	41.6 (54.2 5	93.5 9	6.9 10	0.0	06 0.7	.2 85.	4 94.	3 37.2	25.5	24.1	3.9	2.4	3.3	5.9	1.2	NA	0.	1.2	NA
Marital status																																
unmarried	103	86	21	95.9	92.8	100.0	84.0	82.7	100.0	45.8	55.9	67.0	34.9 (53.0 5	95.0 9	2.7 9	8.8	1.0 84	7 93.	1 86.	4 23.6	27.3	22.6	2.3	18.8	0.	7.2	1.2	NA	2.2	1.2	NA
currently married	72	147	176	87.9	88.1	97.7	64.8	75.3	96.0	31.3	21.5	41.1	33.5 ¢	51.8	94.2 9	04.4 10	0.0	7.3 82	7 85.	7 93.	8 24.9	22.9	16.4	7.6	6.3	4.6	12.9	4.9	NA	8.0	2.1	NA
separated/widowed/ deserted	159	134	158	86.5	86.3	94.2	73.1	75.9	88.2	39.3	63.8	70.2	38.1 5	56.3 5	97.7	3.8 9	9.3 9	9.4 80	.6 80.	6 95.	7 40.9	30.0	29.5	13.1	14.0	4.5	4.2	5.3	NA	5.3	3.0	NA
others	79	37	68	95.9	94.5	98.5	89.2	96.8	96.8	49.0	6.99	69.8	34.0 8	30.4	97.2 9	8.9 10	0.0 10	91 0.0	.5 97.	4 98.	5 38.5	35.6	20.0	2.9	16.9	7.7	5.0	0.	NA	3.3	0.	NA
Typology Final																																
Home	121	82	76	88.0	90.9	96.9	73.4	82.4	97.2	43.0	47.8	62.8	37.0 6	56.2 5	97.5 8	9.6 10	0.0	3.8 78	.2 88.	96.	3 24.1	27.4	23.8	1.6	14.2	4.0	4.0	2.5	NA	1.1	1.2	NA
Brothel	139	97	41	97.1	95.0	97.3	87.3	87.0	88.4	44.0	41.9	38.5	39.3 (52.6 5	93.1 9	6.2 9	9.0	3.2 86	2 78	0 84.	2 41.1	37.7	16.7	11.8	14.2	7.2	5.8	2.0	NA	4.2	1.0	NA
Public Place	154	213	256	87.5	85.5	96.6	71.7	73.3	92.6	34.0	40.6	51.4	31.5 (50.1	97.1 9	9 1.7	9.5 9.	3.9 86	.7 89.	4 97.	0 36.9	22.4	23.1	10.6	11.8	4.5	9.2	4.9	NA	8.1	2.9	NA
Phone	0	12	49	0.	91.6	95.8	0.	100.0	95.7	0.	32.7	67.1	.0	53.5	91.0	.0 10	0.0	3.1	.0 91.	6 91.	2.0	24.8	20.5	.0	0.	5.7	0.	0.	NA	0.	0.	NA
* Sub-sample of those	s with s	respect	tive pai	tner tv	pe, N	4 - Not	Availa	ble																								

* sub-sample of those with respective partner type, NA - Not Available 53 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

FSW-2: Bellary District

		2							Typo	logy					2		100 F 100		Mean a	ge at sex	A	lean du	ation in	Mea	n no. of	clients/	4			Experi	ienced J	-isyho
		2			Home		-	Brothel		Pu	blic Plac	e	Р	hone	4	vican ag	e at IIIst	Sex	work	debute		sex v	ork		week		Ever	nau an	al sex	past	12 mor	ex m tths
	RI	R2	R3	R1	R2	R3	RI	R2	R3	RI	R2	R3	RI	R2	R3	RI	R2 I	R3 I	R1 I	R2 R.	3 R	I R	2 R3	R1	R2	R3	RI	R2	R3	RI	R2	R3
Age of the respond	lents																															
<25	89	101	73	78.4	89.2	90.7	71.6	87.0	87.9	42.1	27.8	26.9	20.6	55.1	92.6	85.0	94.8	89.2	62.0	75.1 70	6.3 20	5.6 13	.5 7	4 5.	2 7.5	5.9	9.5	10.1	NA	7.4	8.2	NA
25-29	112	80	76	73.4	84.9	91.5	69.4	67.6	80.2	41.0	29.6	51.3	28.7	71.3	93.5	91.5	96.8	3 6.86	80.0	81.1 9.	5.8 1(0.7 18	8.2 4	5 4.	8 4.4	1 3.0	4.9	4.1	NA	6.	4.3	NA
30-34	82	65	69	74.3	91.9	97.4	62.2	92.7	91.0	35.3	33.4	52.9	23.7	68.0	96.0	92.9 1	0.00	96.9	88.1	84.2 9.	1.1	4.5 20	5.2 7	7 1.	7 7.2	2 11.3	1.3	6.0	NA	4.7	3.4	NA
35-39	94	74	96	69.3	90.8	78.7	62.9	88.4	82.5	51.8	27.3	44.0	17.0	76.0	94.4	92.9	98.9	95.3 8	81.5 8	83.7 9.	1.5 1:	5.0	5.0 5	.4 7.	8 7.4	4 5.6	2.3	0.	NA	9.	0.	NA
40+	58	91	85	65.0	89.6	83.9	71.4	86.7	90.1	59.7	29.7	47.4	10.7	74.0	96.0	94.2	99.1	97.8	90.1	9.06	2.0 10	0.8	.3 7	.1 6.	6 11.6	5 14.1	6.	1.9	NA	0.	6.	NA
Education Status																																
Illiterate	287	315	295	69.3	88.4	84.6	62.4	80.8	84.4	41.0	29.7	43.6	15.5	69.6	94.5	92.8	98.1	95.2	79.4	82.2 9(0.6 1:	7.1 1(6.0 7	3 5.	5 8.5	5 7.0	3.7	3.9	NA	2.6	3.6	NA
Literate	145	94	105	78.8	91.3	95.3	76.6	94.0	91.6	52.5	28.6	49.7	32.2	63.4	94.7	88.3	96.2	3 1.76	80.1	84.3 80	6.6 15	3.1 1.3	.6 3	6 4.	7 5.3	3 10.7	4.2	7.2	NA	3.0	3.8	NA
Marital status																																
unmarried	128	63	35	70.4	82.1	84.0	74.1	85.8	81.1	64.0	39.2	28.4	20.3	62.3	91.5	93.8	97.0	84.4	74.8 {	82.1 7.	7.2 1:	3.7 1/	6 7	9 7.	3 11.8	3 1.5	7.0	6.7	NA	2.2	0.	NA
currently married	100	163	144	67.6	89.9	89.3	60.1	85.2	90.7	26.8	21.9	40.8	18.2	68.1	92.0	90.0	97.4	97.0	77.6	77.6 91	0.1 1.	2.3	3.8 2	5 2.	8 5.9	9.7.6	1.7	4.7	NA	2.0	3.5	NA
separated/widowed/ deserted	161	106	79	74.1	92.6	80.1	65.0	86.4	83.6	49.7	44.8	52.3	24.8	69.6	96.2	87.5	96.8	94.4 8	80.0 {	87.1 8	8.4 10	3.6 2	1.0 10	.7 4.	11.1	2 8.3	3.8	6.1	NA	3.9	7.7	NA
others	46	79	141	84.2	88.5	90.5	72.6	78.2	84.3	47.4	41.2	54.0	17.5	71.6	96.9	98.9 1	0.00	5 6.76	95.0	88.0 9.	2.7 18	3.0 15	5.5 7	5	9 3.7	9.4	2.2	1.1	NA	1.7	1.1	NA
Typology Final																																
Home	268	200	150	69.3	91.0	92.8	67.5	86.2	88.8	45.4	30.3	57.8	19.7	74.3	92.8	94.9	9.66	96.0 8	84.6	82.3 90	3.9 14	ł.8 1 [,]	6.1	9 5.	5 7.4	l 9.7	2.9	1.9	NA	.2	1.7	NA
Brothel	30	63	15	91.4	95.0	86.3	84.4	95.1	91.7	34.6	8.5	19.7	38.8	51.4	92.1	76.1	87.5 8	85.2 4	41.1 5	58.6 6!	9.5 20	5.8 18	8.1 20	. 9	0 2.5	3 18.3	17.2	15.1	NA	15.4	14.0	NA
Public Place	137	140	189	74.9	84.2	82.9	63.4	76.2	84.2	44.6	33.5	31.3	20.1	66.4	96.0	87.0	99.4	95.2	78.2	94.4 8	6.0 1	5.0 10	.4 4	5 5.	8 10.9	9 6.9	3.5	4.2	NA	5.2	1.8	NA
Phone	0	8	47	0.	82.1	90.6	0.	100.0	84.4	0.	0.	55.9	0.	82.1	94.9	.0	100.0 10	0.00	0.	79.5 91	6.1	.0	3.1 7	· ·	0.	3.7	0.	0.	NA	0.	0.	NA
* Sub-sample of tho	se with	respec	tive p:	utner (ype, N	A - No	t Avail	lable																								

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District
Shimoga
FSW-2:

									Typol	logy									;		-			;		:				Ext	perienc	ed phys	-i-
		z			Home			Brothel		Pul	blic Plac	e	4	hone		Mean ag	ge at firs	t sex	work	ige at se debute	×	dean du sex	work	II III	ean no. we	or cuents ek	ي دور دور	ver had	anal sey	ь са	l force ast 12 1	to sex is months	e
	R1	R2	R3	RI	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	RI	R2	R3	R1 1	R2 I	R3 F	E E	12 R	3 R.	1 R	2 R3	3 RI	1 R	2 R.	3 R1	22	2 R	ŝ
Age of the responde	ents																																
<25	71	45	30	62.2	81.0	86.5	62.4	73.7	80.1	35.7	6.8	17.7	24.1	63.7	89.2	67.9	0.001	96.7	48.3	87.0	93.1	7.9	9.5 10	0.3 5	5.5	0.	.0	3.3 4	4.7 N	VA 3	8.	5.4	٨A
25-29	90	87	85	59.6	96.0	91.5	56.7	87.7	80.5	23.2	10.6	15.5	33.9	65.5	96.1	76.7	98.9	98.8	56.1	89.5	89.1	5.9 1	2.1	7.5 2	2.2	1.4	0.	5 6.6	4.6 N	I A	ri	2.1	٩A
30-34	81	82	90	61.5	88.9	94.5	54.7	85.5	85.5	20.9	13.3	8.7	22.7	62.7	97.6	81.1	98.6 1	0.00	60.2	92.6	94.1 1	2.0 1	1.6	6.7	1.1	4.6 1	11	1.4	4.9 N	٨A	0.	1.1	NA
35-39	81	94	95	46.2	78.3	89.8	41.7	72.6	83.4	18.6	17.2	14.8	27.8	63.3	95.1	75.6	100.0	97.8	56.7	93.4 8	88.6 1	2.5	7.7	9.2 4	4.4 (5.2 3	3.8	<u>.</u>	2.0 N	AA 1	2	1.3	ΝA
40+	71	66	93	43.2	75.4	83.4	38.1	66.2	82.2	10.4	15.3	19.5	17.0	67.2	98.1	54.2	99.1	0.66	29.5	90.8	91.5	0.2	5.0	3.6	7.6	3.8 3	3.8	1.2	3.4 D	٨A	0.	2.0 1	ΝA
Education Status					1	1		1											-							-							
Illiterate	243	229	250	51.8	78.8	87.8	44.9	71.8	82.1	15.8	15.8	13.0	24.4	62.6	96.1	68.9	99.1	98.8	46.7	92.0	90.5 1	1.0	8.3	4.3 5	5.3	5.6 3	3.5 5	5.3	2.7 N	VA 2	-	1.4	٨A
Literate	150	177	142	58.8	90.5	92.3	59.7	82.6	83.6	30.0	10.2	18.4	27.1	67.2	96.3	75.8	99.5	98.5	56.7	5 6.68	91.8	7.6	9.8	1.8 1	1.3	0.1	0.	5.1 5	5.2 N	AA	0.	3.0 1	٨A
Marital status																																	
unmarried	32	13	80	74.7	92.9	62.8	68.1	92.9	89.7	48.7	50.0	45.5	19.3	52.9	100.0	68.3	100.0	87.9	55.4	78.6	78.8	4.2	9.3 10	8.1	0.	7.1 23	3.2 3	3.2	9.3 N	٨A	0.	9.3	NA
currently married	178	203	258	50.3	82.4	92.3	51.0	75.4	84.1	16.2	6.1	9.5	27.2	63.2	96.8	76.7	99.5 1	0.00	52.4	90.5	92.2	6.6	5.7	4.4 3	3.9	2.0 2	2.0	5.5	2.7 N	٨A	<u>sö</u>	2.0	NA
separated/widowed/ deserted	184	190	127	55.1	84.6	85.7	47.4	77.0	79.2	24.7	34.2	41.4	24.4	67.0	94.6	67.3	99.0	96.8	48.3	92.6 {	89.4 1	3.6 1	2.4 1	1.5 4	4.9	5.1 1	9 9.1	6.1	4.5 N	VA 2	0	1.6	AN
others	1	0	0	100.0	0.	0.	100.0	0.	0.	0.	0.	0.	100.0	0.	0.	100.0	0.	.0 1	0.00	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.	AA	0.	0.	٨A
Typology Final																																	
Home	213	211	50	46.2	84.5	81.2	43.2	76.8	80.8	18.1	14.1	15.1	18.9	62.2	93.9	73.0	99.0	96.1	47.4	88.9	93.0	8.4	6.7	5.3 2	2.8	4.4 2	2.1 5	5.6	3.1 N	VA 1	۲.	1.4	٨A
Brothel	20	-	9	77.7	0.	100.0	77.2	100.0	86.5	28.2	0.	0.	29.5	100.0	100.0	75.0	100.0	82.0	57.5 11	30.00	82.0 1	2.7	0.	.`	7.9	.0 34	1.3 8	8.3	0. V	AA	0.	0.	٨A
Public Place	160	135	118	62.7	82.8	85.1	57.2	74.1	77.9	26.9	17.7	12.0	35.2	67.2	93.5	69.3	99.3	99.2	55.3	91.4	85.4 1	1.0 1	1.9	7.3 5	5.1	3.2 1	6 4	4.7	3.6 N	٩A	<i>8</i> 0	2.7	NA
Phone	0	59	219	0.	83.7	93.1	0.	82.4	85.5	0.	2.2	16.6	0.	66.6	98.1	0.	100.0	99.5	0.	98.0	93.9	0.	0.3	7.4	0.	1.6 1	1.7	0.	6.7 D	٩A	0.	3.1 1	NA
* Sub-sample of those	° with	respec	tive na	rtner h	vne. N	- A - No	t Avail	ahle																									

* Sub-sample of those with respective partner type, NA - Not Available 55 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

FSW-2: Bangalore Urban District

		2							Typo	logy					2		1		Mean a	ge at sex	Z	ean dui	ation in	Mea	n no. of	clients/	2			Exper	ienced J	physi-
		2			Home		-	3rothel		Pu	blic Plac	e	Ч	hone	4	dean ag	e at IIISt	sex	work	debute		sex w	vork		week		Ever	nau an	11 SCX	cal io past	12 mor	ex m nths
	RI	R2	R3	R1	R2	R3	R1	R2	R3	RI	R2	R3	R1	R2	R3	R1	R2 I	R3 I	R1 I	22 R	3 R	2	2 R3	R1	R2	R3	R1	R2	R3	RI	R2	R3
Age of the respond	ents																		-	-	-		-									
<25	146	190	133	88.7	87.0	92.1	62.3	82.2	91.6	11.4	16.0	11.1	42.5	68.9	91.6	86.6	83.9	93.8	83.6	75.3 9.	1.5 11	.2	5.2 7.	2 9.4	1 3.0	4.3	16.4	24.9	NA	6.8	7.5	NA
25-29	153	162	166	75.0	88.7	88.1	59.8	80.0	90.2	13.2	11.7	16.2	42.2	70.0	96.8	85.6	84.6 5	3 1.66	84.5	73.5 9.	2.0	6.	7.2 14.	4 11.	1 8.1	4.2	5.0	13.2	NA	2.3	7.	NA
30-34	146	139	131	77.5	83.8	91.1	59.4	80.5	89.6	10.8	15.5	13.4	35.3	70.1	95.1	89.0	84.0	98.1 8	88.3	73.0 9.	5.4 2	.4 10).3 5.	7 15	3 12.6	5 3.7	4.0	5.0	NA	2.2	2.0	NA
35-39	153	164	180	75.6	84.1	90.8	57.8	74.7	82.7	16.5	16.7	13.4	37.0	82.2	92.4	88.8	88.4 5	3 2.76	86.0	75.7 9.	4.4	5 T.	9.5 7.	3 14.	2 12.4	1 3.5	3.3	7.6	NA	5.0	2.9	NA
40+	83	102	107	61.3	83.7	89.9	64.1	76.8	80.6	15.3	16.1	15.7	41.8	76.8	96.6	91.2	86.7	97.4 8	85.1	77.7 9.	5.0 19	6.9	7.3 11.	8 12.4	3 14.5	4.8	2.2	2.2	NA	9.	1.3	NA
Education Status																																
Illiterate	326	376	328	76.7	82.4	89.9	62.1	73.4	87.6	10.7	17.6	14.0	32.6	74.3	93.5	85.6	82.7	96.5 8	82.5	70.0 9.	1.7 13	6.	3.1 11.	2 21.1	2 13.4	1 5.1	6.5	10.8	NA	5.0	1.8	NA
Literate	339	381	389	77.4	89.1	90.6	58.6	84.1	86.4	14.2	12.5	14.0	45.1	72.5	95.2	89.8	88.1 5	3 0.86	87.9	79.7 9.	5.3 11	4.	7. 7.	7 4.	9 5.5	3.2	6.6	13.1	NA	2.2	4.6	NA
Marital status																																
unmarried	35	63	27	86.4	92.4	90.06	62.1	84.5	93.1	24.4	59.7	0.	46.0	59.6	88.8	86.6	84.3 5	92.3 8	80.0	76.1 8.	3.8 10	3.8	5.3 4.	7 4.0	0.	0.	19.5	28.8	NA	7.7	9.3	NA
currently married	294	451	504	82.5	84.4	91.2	62.9	79.7	88.7	8.0	6.7	10.3	40.6	73.2	94.8	85.7	84.2	97.5	83.5	74.2 9.	3.9	0.0	5.7 7.	3 6	3.8.5	5 1.2	2.9	10.1	NA	2.9	2.0	NA
separated/widowed/ deserted	350	243	187	71.3	86.5	88.1	57.8	76.3	81.6	19.8	36.9	45.8	38.2	77.3	94.1	89.9	88.0	97.7 8	87.7 5	75.9 9.	4.1 1:	1 0.9	1.2 15.	3 18.	5 13.8	3 11.4	.8.1	11.0	NA	3.8	3.8	NA
others	1	0	0	100.0	0.	0.	100.0	0.	0.	100.0	0.	0.	0.	0.	.0 1	0.00	0.	.0 1(0.00	0.	.0 50	0.0	0.	0 50.0	0.	0.	0.	0.	NA	0.	0.	NA
Typology Final																																
Home	94	219	46	71.8	90.0	65.5	67.0	81.8	63.8	15.1	12.7	26.2	27.0	76.8	95.3	84.1	83.8	96.5	81.1	73.9 9	5.5	80	3.2 2.	8.8	8.7	3.1	9.1	11.9	NA	4.7	3.5	NA
Brothel	26	56	10	83.4	89.3	93.1	41.3	80.9	93.1	17.5	12.3	20.1	37.3	70.4	93.8	87.6	95.0	93.8	86.3 {	35.4 9	3.8		.8.	0 6.	5.7	0.	10.1	16.8	NA	2.1	2.9	NA
Public Place	530	397	249	76.7	86.0	90.9	59.9	78.0	90.8	13.1	18.0	14.3	42.1	71.5	97.2	88.7	87.3	97.3	86.3	77.8 9	3.4 1	L6 11	1.4 13.	1 13.	6 11.2	6.5	5.7	10.4	NA	3.5	2.4	NA
Phone	30	85	413	91.2	70.6	91.9	64.6	76.4	87.2	7.1	9.9	12.4	37.5	75.1	92.7	0.	74.8	97.5	3.0.	57.0 9.	3.3	89.	7.0 8.	0 7.1	8 6.]	2.8	8.9	16.2	NA	4.1	6.1	NA
* Sub-sample of thos	se with	respec	tive pa	rtner t	ype, N	IA - NG	t Avail	able																								

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District
/-2: Myosre
FSW

Experienced physi-	al sex cal force to sex in past 12 months	R3 R1 R2 R3		7.1 4.8 3.2 3.2	4.8 4.9 2.9 1.0	
1	Ever nad al	R1 R2		22.6 12.2	7.3 3.9	
ents/		R3		30.7	23.6	0
o. of clic	week	R2		9.0	9.7	0
Mean n		R1		25.3	28.6	
n in		R3		14.7	13.2	L C
duratio	ex work	R2		26.2	31.9	i č
Mean	s	R1		26.2	26.0	
sex	ıte	R3		80.8	79.5	C E C
n age at	ork debu	R2		100.0	90.7	
Mea	WO	R1		50.0	61.8	i i
-	rst sex	R3		98.0	99.4	0.001
	age at n	R2		100.0	94.2	0.10
	Mean	RI		60.7	74.0	0.00
		R3		79.8	79.7	L C
	Phone	R2		39.7	39.6	
		R1		20.2	26.0	1
	ace	R3		25.6	20.4	
	ublic Pl	R2		57.1	35.1	
ology	Pı	R1		0.	1.1	C L
Type	_	R3		67.8	84.7	000
	Brothe	R2		67.6	56.2	Ę
		R1		0.	0.	4
		R3		79.8	88.2	
	Home	R2		77.5	68.6	
		R1		0.	0.	4
		R3		76	129	0
2	z	R2		62	100	101
		R1	lents	84	123	00
			Age of the respond	<25	25-29	10.00

																								_								
35-39	78	106	75	0.	61.7	97.6	0.	47.7	91.8	.0	0.0	1.2.8	7.9 35	3.1 86	6.7 60	.3 96.	0 100.() 46.2	94.5	100.0	24.4	17.4	6.6	28.6	12.3	0.	2.6	2.9	3.6	3.9	2.5	0.
40+	54	53	63	0.	60.1	100.0	0.	46.1	96.7	3.7 1	4.0 3	33.5 2	0.4 42	2.2 85	8.4 55	6 95.	3 100.0) 51.9	95.3	100.0	25.9	27.0	8.6	11.1	23.6	0.	11.3	1.9	2.1	7.5	1.9	0.
Education Status																																
Illiterate	324	318	291	0.	64.7	91.4	0.	52.3	84.7	1.8 2	6.0	.8.3 1.	7.9 38	3.1 85	5.0 64	.8 95.	1 99.2	52.8	93.0	88.3	27.8	24.0	11.3	27.3	1.1.1	13.6	9.9	4.1	4.8	5.3	3.0	6.
Literate	104	105	134	0.	72.0	91.0	0.	63.0	85.7	2.7 2	3 9.6	35.5 2.	9.8 41	1.2 80	0.1 61	.5 96.	9 100.() 56.7	96.9	93.4	21.2	25.4	10.0	17.6	12.3	12.4	13.6	5.3	4.3	5.8	۲.	وز
Marital status																																
unmarried	33	71	56	0.	52.2	91.3	0.	52.0	84.4	4.8 2	3.3 5	9.9 2	4.2 35	9.6 77	7.3 75	.8 95.	0 100.0) 63.6	92.8	87.4	33.3	21.9	6.0	31.3	14.3	13.9	18.2	9.0	6.1	9.1	6.4	0.
currently married	178	181	308	0.	73.0	90.9	0.	62.5	86.8	1.8 2	3.1 2	0.4 2	1.3 35	9.3 83	3.7 65	.2 96.	6 99.2	2 53.4	95.2	89.8	23.6	22.6	13.0	23.0	9.5	13.6	9.6	3.8	4.5	5.1	1.4	ø
separated/widowed/ deserted	218	171	59	0.	66.3	92.7	0.	49.2	74.0	1.9 3	12.6 2	1.2.7	9.7 35	7.5 87	7.1 61	.5 94.	6 100.() 52.8	93.1	92.6	27.1	27.2	4.8	25.5	12.2	11.2	10.6	3.1	4.0	5.1	1.8	2.1
others	0	1	2	0.	0.	100.0	0.	.0	0.00	0.	0.	0.	.0 73	3.8 100	0.0	.0 100.	0 100.0	0. (100.0	100.0	.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Typology Final																																
Home	50	23	117	0.	68.5	93.8	0.	58.4	78.2	.0	13.0	2.1 10	6.0 37	7.1 84	4.1 18	.0 100.	0 100.0) 18.0	96.3	89.2	10.0	18.1	9.4	16.7	16.1	14.5	14.0	11.7	2.5	6.0	12.4	1.4
Brothel	2	16	17	0.	62.6	73.4	0.	71.1	59.3	.0	3 6.8	9.05	.0 25	3.7 62	2.8 50	.0 90.	3 100.() 50.0	86.0	69.3	50.0	29.1	20.0	50.0	16.0	26.9	0.	8.7	9.2	50.0	0.	0.
Public Place	377	385	287	0.	66.6	91.3	0.	54.6	89.7	2.3 2	4.3 3	30.5 2	1.5 35	9.2 84	4.2 70	.3 95.	5 99.2	2 58.6	94.2	92.2	28.1	24.5	10.7	26.0	10.9	11.2	10.4	3.8	4.9	5.1	1.9	۲.
Phone	0	0	3	0.	0.	93.9	0.	0.	91.4	0.	0.	0.	0.	.0 100	0.0	0.	0 100.(0.	0.	29.3	0.	0.	29.3	0.	0.	70.7	0.	0.	29.3	0.	0.	0.
* Sub-sample of those	with r	toansa.	ive nart	ner tvi	ne. NA	Vot	Availa	ماط																								

* Sub-sample of those with respective partner type, NA - Not Available 57 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

Appendix-2: Additional Indicators at a Glance for MSMs

								-WSM	1: Belgaun	n District										
	4		Kot	'n	Pan	thi	Double o	lecker	Bisext	ıal	Hijra		Have a 1 (regular) sexual pa	nain male rtner	Have parnt	tying v	Had pai with male partn	d sex or hijra er	Have a re female se partn	gular xual er
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Age in completed years																				
<20	10	9	58.7	16.2	0.0	0.0	41.3	64.9	0.0	18.9	0.0	0.0	59.9	32.4	44.6	16.2	12.7	0.0	35.2	18.9
20-24	40	39	36.2	15.9	4.9	4.3	52.2	68.5	6.8	11.4	0.0	0.0	65.7	65.6	71.2	17.1	21.7	6.5	61.5	26.1
25-29	53	33	15.5	35.5	7.9	0.0	67.2	46.8	6.7	17.7	2.7	0.0	41.3	69.8	36.4	24.2	6.6	16.8	52.0	61.0
30-34	47	22	11.0	14.3	9.4	0.0	60.5	6.69	19.1	10.7	0.0	5.1	42.8	59.2	42.6	25.3	14.8	11.5	52.0	88.5
35-39	31	33	12.1	18.6	5.5	0.0	60.9	69.2	16.9	9.0	4.7	3.2	36.3	59.2	66.7	21.3	2.9	2.9	30.8	79.1
40+	69	66	22.3	15.8	4.3	0.0	57.9	59.3	8.6	18.4	7.0	6.4	28.5	62.0	44.0	13.5	6.3	4.3	0.0	78.9
Educational attainment																				
Illiterate	79	73	26.2	19.6	1.0	0.0	49.6	68.0	15.3	8.0	7.9	4.5	41.5	61.2	47.3	14.1	9.8	5.8	40.5	67.4
1-5	26	10	28.7	28.7	18.5	0.0	45.9	60.5	7.0	10.8	0.0	0.0	31.0	78.5	88.8	8.6	7.0	19.4	56.5	91.4
6-10	83	68	20.7	20.4	5.5	0.0	65.1	55.2	7.1	19.7	1.7	4.8	38.2	62.8	48.7	24.3	14.9	9.5	27.5	59.1
11+	53	47	10.9	14.7	9.9	3.5	68.5	63.5	10.6	18.3	0.0	0.0	54.2	60.5	49.6	19.6	7.4	3.9	67.6	66.0
No formal schooling	6	1	30.6	100.0	0.0	0.0	59.2	0.0	10.2	0.0	0.0	0.0	45.9	100.0	55.6	0.0	0.0	0.0	0.0	0.0
Marital status																				
Never married	83	70	42.6	24.3	4.3	2.3	49.5	61.5	1.9	4.3	1.7	7.6	55.0	65.5	57.9	20.1	11.3	5.0	49.3	5.4
Currently married	153	129	9.3	16.5	7.7	0.0	67.4	62.3	15.6	20.4	0.0	0.8	34.6	60.8	44.2	17.7	9.0	8.4	23.8	99.3
Other	14	0	23.0	0.0	0.0	0.0	28.4	0.0	7.5	0.0	41.1	0.0	48.5	0.0	62.5	0.0	27.3	0.0	24.8	0.0
Self identification																				
Kothi	52	40											55.1	67.1	68.1	26.7	3.4	4.8	0.0	54.3
Panthi	17	1											15.9	0.0	33.3	0.0	23.9	0.0	77.8	0.0
Double Deckers/AC/ DC	146	124											36.9	61.4	47.6	13.1	13.0	7.7	44.4	64.5
Bisexual	30	28											68.8	61.7	34.7	17.1	3.1	10.0	29.4	96.8
Hijra	5	9											17.6	76.4	100.0	84.3	0.0	0.0	0.0	15.7

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District
Bellary
MSM-1:

	4	5	Kol	ihi	Pan	ıthi	Double	decker	Bisex	ual	HIJ	ra La	Have a (regular sexual p	main) male artner	Have pe parnt	ıying ter	Had pai with male partn	d sex or hijra er	Have a re female s partn	:gular exual er
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Age in completed years																				
<20	10	2	46.6	0.0	10.7	0.0	42.8	100.0	0.0	0.0	0.0	0.0	51.5	50.0	100.0	0.0	13.3	0.0	0.0	0.0
20-24	34	33	19.7	49.1	6.7	0.0	47.8	43.5	0.0	0.0	25.8	7.3	51.6	75.7	77.4	42.8	8.9	7.2	0.0	16.6
25-29	18	15	7.3	23.3	0.0	10.6	65.0	46.6	13.0	5.3	14.7	14.1	21.5	51.9	100.0	59.7	8.0	4.2	23.5	68.9
30-34	12	7	19.2	12.6	0.0	0.0	55.6	87.4	25.2	0.0	0.0	0.0	34.8	89.9	78.0	35.2	0.0	22.6	33.3	87.4
35-39	10	9	42.5	21.7	0.0	0.0	29.5	78.3	18.7	0.0	9.4	0.0	32.2	89.1	61.8	10.9	12.6	0.0	0.0	89.1
40+	16	8	17.9	0.0	7.6	0.0	45.4	84.9	17.7	0.0	11.4	15.1	46.0	50.3	63.3	42.7	20.0	27.6	0.0	84.9
Educational attainment																				
Illiterate	37	26	25.6	32.1	0.0	5.8	39.8	47.8	16.3	0.0	18.3	14.2	48.7	60.8	79.0	56.9	7.1	5.8	50.0	54.8
1-5	13	5	16.0	48.1	0.0	0.0	35.6	33.6	0.0	0.0	48.4	18.3	27.0	64.5	100.0	18.3	0.0	51.5	0.0	33.6
6-10	27	15	17.7	39.8	8.7	0.0	60.3	60.2	7.0	0.0	6.2	0.0	30.2	78.0	47.4	36.4	8.9	5.0	23.5	36.0
11+	23	25	25.6	25.0	9.6	0.0	52.5	68.2	8.7	3.4	3.6	3.4	48.7	77.7	92.6	33.2	15.9	6.8	0.0	46.5
No formal schooling	1		0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0
Marital status																				
Never married	59	38	30.0	50.2	5.7	0.0	49.2	34.8	3.3	0.0	11.9	15.0	44.5	73.9	81.8	51.0	8.5	6.1	16.3	1.7
Currently married	33	33	10.6	11.2	3.8	5.1	58.9	81.2	24.1	2.5	2.5	0.0	31.6	65.6	61.1	31.9	13.9	12.7	0.0	100.0
Other	6	0	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.2	0.0	62.4	0.0	100.0	0.0	0.0	0.0	0.0	0.0
Self identification																				
Kothi	20	23											46.9	72.6	66.5	48.5	11.5	10.2	0.0	16.0
Panthi	4	1											25.8	0.0	100.0	0.0	25.8	0.0	0.0	100.0
Double Deckers/AC/ DC	51	40											30.0	71.0	74.7	30.9	6.5	10.4	16.7	68.3
Bisexual	10	1											52.8	100.0	100.0	100.0	21.3	0.0	44.4	100.0
Hijra	16	9											6.69	70.2	82.7	100.0	0.0	0.0	0.0	0.0
59 Repeat surveys	to asses	s change	s in beh	aviour a:	nd preva	ilence of	HIV/S'	TIs in po	pulation	ns at risk	of HIV									

MSM-1: Shimoga District

)	Z		Kot	Ę	Pan	thi	Double	decker	Bisex	ual	Hijı	ą	Have a (regular sexual p	main) male artner	Have p parn	aying ter	Had paı with male partn	d sex or hijra ter	Have a r female s partr	egular exual ler
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Age in completed years																	-		-	
<20	10	5	27.3	60.0	0.0	0.0	72.7	40.0	0.0	0.0	0.0	0.0	61.4	80.0	74.1	80.0	0.0	0.0	50.0	0.0
20-24	30	21	20.9	26.8	8.6	4.3	67.6	64.5	2.9	4.3	0.0	0.0	44.6	41.4	59.7	44.9	9.4	8.7	22.0	8.7
25-29	16	12	5.7	16.7	0.0	0.0	88.6	83.3	5.7	0.0	0.0	0.0	11.4	33.3	100.0	16.7	0.0	25.0	0.0	58.3
30-34	8	13	0.0	14.6	13.5	7.3	75.7	62.1	10.8	16.0	0.0	0.0	24.3	29.1	55.6	14.6	21.6	14.6	0.0	78.2
35-39	6	9	10.0	9.4	0.0	18.8	77.5	71.9	12.5	0.0	0.0	0.0	22.5	29.7	100.0	0.0	0.0	0.0	0.0	7.9.7
40+	19	29	18.6	15.9	4.7	0.0	76.7	71.9	0.0	12.3	0.0	0.0	9.3	25.1	50.0	15.9	0.0	9.2	22.2	78.0
Educational attainment																				
Illiterate	19	28	32.2	30.9	0.0	0.0	58.6	59.2	9.2	9.9	0.0	0.0	35.6	34.9	38.7	27.6	4.6	13.2	0.0	51.9
1-5	25	2	18.9	0.0	7.2	0.0	73.9	100.0	0.0	0.0	0.0	0.0	23.4	0.0	65.4	0.0	11.7	0.0	44.8	100.0
6-10	31	38	8.3	14.4	2.8	9.6	82.8	71.2	6.2	4.8	0.0	0.0	28.3	41.1	80.5	19.2	2.8	12.0	0.0	66.1
11+	17	20	5.5	18.3	12.3	0.0	82.2	71.6	0.0	10.1	0.0	0.0	34.2	23.6	84.0	32.8	0.0	4.6	30.8	37.5
No formal schooling	0	1	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Marital status																				
Never married	45	39	21.8	37.2	1.9	4.9	74.3	57.9	1.9	0.0	0.0	0.0	45.1	38.1	65.6	42.1	4.4	7.3	22.8	0.0
Currently married	42	49	6.3	7.3	8.9	3.7	77.9	75.8	6.8	13.2	0.0	0.0	15.8	29.3	73.3	9.2	6.3	12.8	0.0	98.2
Other	5	1	40.0	0.0	0.0	0.0	60.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	25.0	0.0
Self identification																				
Kothi	15	19											44.6	48.3	58.6	63.8	0.0	15.5	0.0	20.7
Panthi	ŝ	4											42.9	50.0	100.0	0.0	19.0	25.0	0.0	50.0
Double Deckers/AC/ DC	68	59											24.3	26.4	68.4	16.8	4.2	6.0	23.9	60.8
Bisexual	4	7											52.9	55.6	55.6	0.0	23.5	27.8	0.0	100.0
Hijra	0												0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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District
Urban
3angalore
MSM-1: I

	4	7	Kot	æ	Pan	thi	Double (lecker	Bisex	ual	Hijı	e,	Have a (regular sexual p	main) male artner	Have pe parni	ıying er	Had pai with male partn	d sex or hijra ler	Have a re female s partn	gular exual er
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Age in completed years																				
<20	14	29	52.5	25.1	19.1	0.0	16.8	36.7	7.6	8.2	4.0	30.0	21.6	64.2	35.4	76.8	17.2	8.2	0.0	0.0
20-24	117	128	25.6	10.0	10.6	0.6	29.0	31.2	14.3	16.9	20.4	41.3	53.2	64.5	51.8	69.69	4.8	5.6	16.9	8.9
25-29	92	115	43.6	11.2	3.5	0.5	30.9	46.1	14.0	14.8	8.0	27.3	42.4	59.7	55.4	43.7	4.0	13.7	7.6	20.6
30-34	34	49	27.3	4.8	4.5	0.0	31.8	49.4	23.1	27.1	13.3	18.7	39.3	63.4	44.5	37.4	2.8	19.6	19.1	47.8
35-39	30	35	20.8	10.7	7.1	0.0	36.1	45.9	21.8	14.7	14.1	28.7	27.4	49.4	56.0	43.9	0.0	10.8	9.0	47.0
40+	34	47	23.7	15.1	18.6	0.0	27.6	39.6	20.9	34.9	9.2	10.4	26.6	56.8	26.1	19.0	5.9	6.6	10.9	71.1
Educational attainment																				
Illiterate	78	55	52.5	12.4	14.5	0.0	13.3	38.9	7.9	5.1	11.7	43.6	44.2	50.4	38.2	65.0	8.3	7.4	25.7	23.8
1-5	19	32	19.0	13.4	15.2	0.0	27.1	19.9	31.1	41.9	7.7	24.8	52.0	76.1	72.2	40.8	2.6	32.5	12.4	53.4
6-10	140	175	25.0	11.5	5.6	0.4	33.0	43.1	19.6	17.9	16.7	27.1	39.5	65.4	47.0	52.7	4.0	6.0	8.6	32.0
11+	84	131	27.0	9.8	7.4	0.5	40.0	45.3	14.4	20.7	11.2	23.8	42.2	55.0	60.6	39.3	2.8	13.8	7.0	20.7
No formal schooling	0	10	0.0	22.1	0.0	0.0	0.0	11.0	0.0	30.9	0.0	36.0	0.0	59.4	0.0	55.3	0.0	0.0	0.0	41.9
Marital status																				
Never married	214	311	39.6	12.4	10.1	0.5	32.6	39.2	12.5	9.9	5.3	38.1	40.4	59.5	61.6	56.8	5.7	9.7	6.1	4.6
Currently married	50	81	17.3	8.9	9.5	0.0	38.0	48.1	35.2	41.5	0.0	1.5	37.2	62.5	35.3	24.1	2.3	15.4	47.9	95.3
Other	57	11	11.0	5.8	1.6	0.0	7.6	29.0	11.8	65.3	68.0	0.0	55.6	71.0	23.6	53.7	1.5	0.0	4.9	58.7
Self identification																				
Kothi	108	48											53.2	53.7	63.8	64.6	2.2	13.5	3.0	19.5
Panthi	26	2											29.4	0.0	21.5	0.0	13.6	0.0	20.7	0.0
Double Deckers/AC/ DC	86	152											28.0	63.4	54.2	36.7	3.7	3.9	17.1	34.5
Bisexual	45	60											49.0	60.3	52.9	18.7	9.1	34.0	14.9	63.0
Hijra	56	141											47.1	60.2	18.5	80.8	0.0	4.2	0.0	0.6
61 Repeat surveys	to asses	s change	s in beha	wiour a	nd preva	nlence of	LS/VIH	Ils in poj	pulation	is at risk	of HIV									

MSM-1: Mysore District

	Z		Ko	thi	Pant	thi	Double	decker			ίΗ	ra	(regular sexual p) male artner	parn	ter	wiui intare parti	or hijra 1er	female s parti	ler
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Age in completed years																				
<20	8	3	87.5	31.3	0.0	0.0	0.0	0.0	0.0	0.0	12.5	68.8	75.0	68.8	83.3	68.8	0.0	0.0	0.0	0.0
20-24	22	29	54.5	56.5	0.0	0.0	36.4	19.3	0.0	3.1	9.1	21.1	50.0	45.3	80.0	70.8	0.0	0.0	50.0	3.7
25-29	24	18	37.5	44.2	0.0	12.5	37.5	23.1	0.0	5.8	25.0	14.4	70.8	28.8	52.9	76.9	9.5	0.0	0.0	13.5
30-34	19	21	52.6	50.8	5.3	0.0	31.6	32.2	0.0	5.9	10.5	11.0	73.7	42.4	50.0	72.9	6.3	0.0	0.0	27.1
35-39	20	15	65.0	61.2	0.0	5.9	25.0	17.6	0.0	0.0	10.0	15.3	60.0	43.5	91.7	85.9	5.6	0.0	25.0	23.5
40+	7	14	85.7	64.2	0.0	0.0	14.3	22.2	0.0	7.4	0.0	6.2	57.1	30.9	75.0	71.6	0.0	0.0	0.0	28.4
Educational attainment																				
Illiterate	23	28	60.9	60.6	0.0	3.2	13.0	7.7	0.0	4.5	26.1	23.9	65.2	43.2	66.7	81.9	10.0	0.0	0.0	18.7
1-5	8	9	50.0	48.5	0.0	0.0	50.0	18.2	0.0	0.0	0.0	33.3	37.5	51.5	100.0	66.7	0.0	0.0	0.0	18.2
6-10	38	35	60.5	54.8	2.6	6.5	21.1	21.1	0.0	3.0	15.8	14.6	76.3	41.7	86.2	75.9	3.1	0.0	20.0	20.1
11+	29	30	48.3	50.3	0.0	0.0	48.3	35.3	0.0	6.4	3.4	8.1	55.2	34.1	33.3	67.6	3.7	0.0	25.0	11.6
No formal schooling	2	1	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
Marital status																				
Never married	57	79	63.2	59.8	1.8	1.3	28.1	18.9	0.0	1.1	7.0	18.9	63.2	42.7	65.7	78.7	2.0	0.0	33.3	0.0
Currently married	32	19	59.4	37.0	0.0	11.1	37.5	34.3	0.0	17.6	3.1	0.0	62.5	26.9	70.0	66.7	7.1	0.0	11.1	83.3
Other	11	2	18.2	0.0	0.0	0.0	9.1	41.7	0.0	0.0	72.7	58.3	72.7	58.3	75.0	0.0	11.1	0.0	0.0	41.7
Self identification																				
Kothi	57	54											66.7	45.1	68.4	75.8	3.8	0.0	16.7	13.1
Panthi	1	3											100.0	38.9	100.0	27.8	0.0	0.0	0.0	66.7
Double Deckers/AC/ DC	29	23											55.2	33.3	60.0	75.4	4.0	0.0	16.7	28.6
Bisexual	0	4											0.0	0.0	0.0	45.8	0.0	0.0	0.0	29.2
Hijra	13	16											69.2	42.9	77.8	86.8	10.0	0.0	0.0	0.0

62 Integrated Behavioural And Biological Assessment

Sub-sample of thos who have partner; NA: Not Available

63 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

MSM-2: Bellary District

	4	7	CCU main parn	with male ter*	CCU 1 paid n partr	with nale ter	CCU v female partno	with sex er*	Knowl of at lec STI syn tom	edge 1 nst 2 s	Ever tal an HIV AIDS ta	cen 2/	Contact by proje staffs	sct co	Given Indoms VGO sta	by Vi th th	sited cli c run by e proje	n- Ev cr der	er seen condom nonstra tion	- an	mber of y CBO	Ever or f to ha to ha in pa	beaten orced ive sex ist one ear	H	IV itive	Syph posit	ilis tive	High t syphi	ltre lis
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2 I	R-1 I	ξ-2 I	ζ-1 F	ג-2 R	-1 R	2 R	-1 R-	2 R-	l R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
Age in complete	ed years	5																											
<20	10	7	41.9	0.0	0.0	0.0	0.0	0.0	60.6	100.0	0.0	50.0 10	0.00	0.00	90.5 10	1 0.00	VA 50	06 0.(.5 100.	0 0.	0 0.0	13.3	0.0	11.6	0.0	0.0	0.0	0.0	0.0
20-24	34	33	32.1	96.2	100.0	100.0	0.0	0.0	55.6	86.9	38.2	77.6	92.4	95.2 8	33.5 9	12.8 I	JA 8j	.4 82	.5 96.	2 2.	5 52.2	30.6	7.6	35.2	23.6	16.9	16.2	6.6	13.1
25-29	18	15	45.5	46.7	0.0	0.0	15.6	6.2	35.5	68.9	14.4	80.9 10	0.00	3 0.00	32.4 8	1 19.4	VA 75	.5 90	.2 83.	7 0.	0 35.3	3 17.1	25.4	16.6	42.8	15.1	16.2	8.8	0.0
30-34	12	~	22.0	84.4	0.0	100.0	13.3	0.0	48.2	87.9	39.7	85.7 9	€.4	87.9 6	5.5 10	1 0.0	4A 100	0.0 73	.2 87.	9 0.	0 52.8	3 42.5	0.0	23.0	25.1	42.5	12.6	9.6	0.0
35-39	10	9	61.8	80.6	0.0	0.0	0.0	0.0	58.2	89.1	50.6	56.5	70.5 10	0.00	70.5 8	1 1.6	VA 85	1.1 70	.5 100.	0 11.	5 43.5	30.4	0.0	73.1	21.7	52.5	10.9	42.6	0.0
40+	16	8	34.9	100.0	0.0	100.0	13.8	14.2	30.4	74.9	29.3 10	3 0.00	32.1 10	0.00	77.0 10	10.0	4A 100	0.0 70	.7 100.	0 0.	0 52.2	0.0	10.1	27.0	12.1	22.2	0.0	6.3	0.0
Educational atta	uinmen	÷																											
Illiterate/ No formal school- ing	38	26	41.7	74.7	0.0	60.0	13.7	0.0	39.6	74.7	46.3	72.5 {	31.6 1	0.00	9.92	1.8	4A 84	I.8 67	.0 94.	2 0.	0 36.	1 28.0	16.4	34.2	35.3	27.3	17.6	10.0	8.3
1-5	13	ß	26.3	0.0	0.0	100.0	0.0	0.0	31.3	17.2	36.8 10	0.00	92.9	9.69	12.9 8	6.3 I	4A 68	3.0 85	.8 51.	5 0.	0 35.5	34.2	0.0	45.6	52.6	25.8	39.8	8.6	39.8
6-10	27	15	41.2	93.1	47.9	100.0	10.3	16.7	48.7	95.0	21.6	20.0	1.9 1.6	0.00	78.6 9	5.0 F	4A 82		.9 95.	0.0	0 56.5	5 9.3	5.0	34.0	21.0	27.5	5.5	10.8	0.0
11+	23	25	30.8	88.0	0.0	100.0	0.0	5.8	64.1	97.3	24.0	89.2 10	0.00	95.9 8	\$5.1 9	5.3 I	4A 85	3.5 81	.3 100.	0 8.	7 56.2	23.5	8.1	15.2	13.5	11.0	7.6	11.0	0.0
Marital status																													
Never married	59	38	33.9	90.7	100.0	71.4	0.00	100.0	48.1	85.8	25.2	73.8	93.8	95.7	78.6 9	06.5 1	VA 82	2.1 81	.8 94.	2 1.	4 51.8	3 25.3	8.7	24.2	34.5	9.4	18.6	7.7	11.6
Currently mar- ried	33	33	25.5	74.8	0.0	100.0	4.0	2.4	47.2	78.3	40.9	84.4	87.6	97.6	32.5 8	9.4 I	4A 87	7.3 82	.5 92.	5 3.	6 40.5	14.8	12.2	35.3	16.6	40.9	7.6	16.8	0.0
Other	6	0	76.8	0.0	0.0	0.0	0.0	0.0	42.3	0.0	31.3	0.0	74.0	0.0	55.3	0.0	AA (0.0 52	.6 0.	0 0.	0 0.0	32.1	0.0	62.4	0.0	43.3	0.0	0.0	0.0
Self identificatio	n																												
Kothi	20	23	35.0	87.7	0.0	71.4	0.0	0.0	50.1	76.8	15.6	78.5 8	31.7	97.1 8	31.7 9	1.3	VA 85	5.5 81	.7 94.	2 5.	4 55.3	31.7	5.1	35.5	44.3	22.3	18.5	17.0	18.5
Panthi	4	1	0.0	0.0	0.0	0.0	0.0	0.0	51.2	0.0	0.0	0.0 10	10.00	0.00	77.0	0.0	AA (0.0	.2 0.	0.0	0 0.(0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Double Deck- ers/AC/DC	51	40	33.9	81.8	47.9	100.0	4.4	5.4	30.4	90.5	22.7	78.8	90.2	95.5	72.2 9	7.1 I	VA 87	7.1 76	.4 98.	0 0.	0 44.9	11.6	12.1	26.9	11.6	24.3	4.0	7.9	0.0
Bisexual	10	1	40.4	100.0	0.0	0.0	23.9	0.0	100.0	0.001	58.5 10	00.0 10	0.00	0.00	91.5 10	10.0	4A 100	.0 91	.5 100.	0 0.	0 0.0	30.5	0.0	29.0	100.0	25.0	100.0	13.1	0.0
Hijra	16	9	44.4	79.5	0.0	0.0	0.0	0.0	61.7	69.2	59.0 10	0.00	94.0 10	3 0.00	37.9 10	0.0 I	VA 84	4.6 80	.9 84.	6 5.	6 47	1 44.8	23.1	47.9	53.8	23.0	54.1	7.7	0.0
*Sub-sample of th	or who	have p	artner:	NA: No	t Availa	ble																							

64 Integrated Behavioural And Biological Assessment

*Sub-sample of thos who have partner; NA: Not Available 65 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

oga District MSM-2: Shin

	Z		CCU main parnt	with male ter*	CCU v paid m partn	vith ale er	CCU w female partne	sex sex	Knowle of at lea STI syn toms	dge l st 2 l	Ever tak an HIN AIDS te	ten (Contact by proje staffs	N co	Given ndoms b (GO staf	Visi oy ic. F the	ted clin run by project	Eve a cc dem	r seen ondom onstra- ion	Mem any	ber of CBO	Ever be or for to have in past yea	aten ced s sex one r	HIV positive		Syphilis positive	Hig syj	h titre philis	
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2]	R-1 1	R-2 I	λ-1 F	ג-2 R	k-1 R	2 R	-1 R-	2 R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1 R	-2 R	-1 R-2	R-1	R-2	
Age in complete	ed years																												
<20	14	29	35.4	63.4	0.0	0.0	0.0	0.0	37.3	78.4	46.2	73.7 6	58.4 8	34.5 5	8.9 77	.7 N	A 82.	3 51.2	2 80.8	0.0	36.7	7.6	3.3	3.0 1	0.6	0.0	0.0	7.8	~
20-24	117	128	64.9	63.3	55.7	73.1	36.8	78.3	18.1	69.2	22.3 (59.5 7	73.4 8	38.1 7	2.2 75	5.2 N	A 83.	7 59.8	8 76.7	2.2	21.1	10.8	16.0	18.0 1	7.9	··6 0.6	F 6.2	2 7.4	
25-29	92	115	75.1	62.7	0.0	96.9	14.9	19.7	15.6	72.7	17.8	36.1 6	59.7	3.2 6	4.7 78	8.5 N	A 91.	3 55.3	3 87.7	0.5	35.0	9.4	11.4	18.6 1	7.5 10	2.1 6.3	7.4	1 2.2	
30-34	34	49	78.3	37.3	100.0	19.6	33.3	0.0	10.2	73.2	17.1	37.5 7	72.6 5	92.6 6	8.5 91	.6 N	A 93.	4 66.6	5 93.6	2.3	19.9	4.5	11.3	7.9	7.3	3.1 20.4	1.8	3 5.7	
35-39	30	35	70.2	75.0	0.0	0.00	6.2	8.1	7.0	69.8	33.5	55.0 6	59.4	9.9 6	2.6 61	N 6.	A 70.	6 39.1	1 78.4	1.7	33.6	7.6	29.8	19.7 4	3.0 10	5.4 31.0	12.3	5.3	
40+	34	47	77.5	59.7	36.4	44.7	10.8	3.1	19.9	62.0	0.6	58.1 7	78.1 5	94.7 5	8.1 80	.3 N	A 92.	6 51.4	4 78.0	0.0	28.6	14.4	1.2	40.8 1	4.0 18	3.3 4.		7 4.1	
Educational atta	unmen	Ţ																											
Illiterate/ No formal school- ing	78	65	60.8	78.4	37.2	0.00.	33.5	10.1	12.7	62.5	3 6.12	30.0	57.1 8	38.7 6	0.7 78	8.6 N	A 84.	3 51.4	4 82.7	1.6	17.0	1.11	23.5	24.2 2.	5.0 18	3.7 16.5	2.5	9 10.3	
1-5	19	32	96.2	40.0	0.001	10.2	16.9	4.1	24.4	77.7	40.1 §	35.5 8	8 8.95	37.0 8	9.8 84	l.8 N	A 94.	5 82.9	9 81.1	0.0	27.8	13.0	7.2	18.3 1	8.3 (0.0 12.0	0.0	3.4	- 11
6-10	140	175	69.5	65.6	0.0	59.4	23.1	10.7	16.5	67.4	14.5	72.0 7	71.8 5	0.8 6	7.9 79	.3 N	A 84.	5 55.7	7 80.5	0.6	27.7	11.5	14.6	17.2 1	9.5 1	11.6	9.6	6.5	
11+	84	131	70.9	50.9	0.001	90.1	5.3	24.4	18.0	74.8	24.5	7 6.87	73.0 9	01.0 6	4.4 74	8 N	A 90.	5 54.0	86.3	2.6	33.1	4.7	6.6	17.1 1	1.1	5.9 8.0	3.7	7 1.9	-
Marital status																													
Never married	214	311	71.0	62.1	47.7	85.0	51.5	40.6	14.5	72.1	16.2	76.3 7	73.7 8	39.6	8.9 77	.0 N	A 85.	4 59.2	2 82.8	1.7	29.4	9.1	11.8	15.4 1	9.5 1(0.1 10.5	7.0	5.6	10
Currently married	50	81	7.9.7	55.5	0.0	29.9	14.4	4.4	19.8	64.1	16.5	76.2 έ	58.3 5	91.6 5	5.7 80	.4 N	A 93.	0 44.3	3 82.4	0.0	27.3	9.2	13.3	26.0 1	1.0 10	3.6 14.7	10.1	1.4.1	
Other	57	11	57.9	20.7	0.0	0.0	0.0	80.3	22.1	88.4	43.1	76.8 6	59.1 10	0.0	9.1 94	l.2 N.	A 94.	2 54.2	2 100.0	1.1	12.3	13.2	11.6	28.1 1:	3.1 13	3.0 0.6	1.2	0.0	•
Self identification	n																												
Kothi	108	48	78.6	82.2	0.0	0.00	43.1	0.0	10.1	81.1	0.6	56.0 7	2 1.67	2.5 7	4.5 92	0.0 N	A 89.	1 71.0	92.4	1.6	30.1	9.4	14.3	26.1 2	6.7 13	2.2 3.0	.7.1	1.8	~
Panthi	26	2	91.2	0.0	66.8	0.0	40.7	0.0	21.4	0.0	25.3 10	2 0.00	76.4 10	0.0	1.6 100	0.0 N	A 100.	0 53.(0 100.0	0.0	0.0	0.0	0.0	12.9	0.0	2.7 0.0	2.7	0.0	-
Double Deck- ers/AC/DC	86	152	54.1	53.7	15.0	89.6	17.5	12.5	14.5	59.4	3.8	76.1 é	55.7 8	39.7 5	9.4 79	.5 N	A 86.	3 46.7	76.9	1.7	34.3	13.4	10.7	13.2 1:	2.1 1	1.0 10.3	10.2	5.1	
Bisexual	45	60	66.6	40.0	35.5	51.3	11.2	14.8	27.7	76.2	27.6	75.2 7	78.0 5	95.2 7	4.0 84	.6 N	A 91.	6 51.8	89.5	0.0	15.7	2.7	2.4	15.2	7.8 10	0.8 4.9	3.1	1.8	
Hijra	56	141	62.2	70.9	0.0	68.3	0.0 1	0.00	19.2	79.7	14.4	31.1 6	50.3 8	37.0 5	9.1 66	6.4 N	A 85.	9 47.9	9 84.1	2.4	27.9	17.0	20.4	23.4 2	9.7 14	4.6 19.0	5.1	8.3	
*Sub-sample of tl	or who	o have p	artner;	NA: No	t Availa	ble																							

66 Integrated Behavioural And Biological Assessment

												Μ	ISM-2: N	Aysore D	listrict														
	z		CCU v main r parnt	vith nale er*	CCU w paid m partne	ith ale er	CCU w female : partne	ith sex	Knowle of at lea STI syn toms	dge E st 2 E 1P-	ver tak an HIV AIDS te:	en c	Contacte by projec staffs	Con NC	Given doms b 30 staff	Visite y ic r the F	ed clin- un by rroject	Ever a col demc ti	seen ndom instra- on	Memb any C	ar of t BO i	ever bea or force o have n past o year	ed sex	HIV positive		Syphilis positive	Hi, sy	gh titre philis	
	R-1	R-2	R-1	R-2	R-1	R-2 I	R-1 1	R-2	R-1 1	R-2 R	-1 R	-2 R	-1 R-	-2 R-	1 R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1 F	₹-2 R	t-1 R-	-2 R	-1 R-2	R-1	R-2	
Age in comple	eted yea	urs																											
<20	8	3	83.3	45.5	0.0	0.0	0.0	0.0	87.5	31.3 6	32.5 6	8.8 10	0.0 6	8.8 100	0.0 68.	8 NA	31.3	\$ 100.0	100.0	87.5	0.001	25.0	0.0	12.5	0.0 1.	2.5 0.	0 12.	5 0.0	-
20-24	22	29	63.6	27.0	0.0	0.0	0.0	0.0	81.8	90.1 2	3.8 8	(7.0 10	0.0 8	7.6 100	0.0 84.	5 NA	52.8	\$ 95.5	82.6	77.3	96.96	27.3	0.0	18.2 10	0.6 2	7.3 6.	8 13.	6 0.0	-
25-29	24	18	88.2	56.7	0.0	0.0	0.0	0.0	95.8	89.4 3	3.3 8	8.8 9	5.8 7.	4.0 87	.5 80.	8 NA	67.3	91.7	89.4	70.8	95.2	29.2	0.0 2	20.8	9.6 2	9.2 0.	0 16.	7 0.0	-
30-34	19	21	71.4	45.7	100.0	0.0	50.0	15.6	94.7	95.8 4	12.1 9	5.8 10	0.0	1.5 100	0.0 91.	5 NA	76.3	\$ 89.5	100.0	57.9	94.1	36.8	0.0 2	26.3 2.	2.9 1	0.5 4.	2 5.	3 0.0	-
35-39	20	15	75.0	54.1	0.0	0.0	16.7	0.0	80.0 1	00.0 2	1.1 8	0.0 10	0.0 10	0.0 100	0.0 100.	0 NA	74.1	95.0	100.0	75.0	100.0	40.0	0.0	30.0	0.0 3	0.0 12.	9 25.	0.0	-
40+		14	75.0	0.0	0.0	0.0	0.0	0.0	71.4 1	0.00	0.0 8	(4.0 10	0.0	3.8 100	0.0 93.	8 NA	60.5	; 71.4	84.0	71.4	100.0	14.3	0.0	28.6 3:	5.8 1	4.3 12.	3 0.	0 6.2	- 1
Educational a	ttainme	ent																											
Illiterate/ No formal schooling	25	29	66.7	53.8	100.0	0.0	16.7	0.0	91.3	92.9 2	27.3 5	10 10	0.0	2.3 100	.0 96.	8 NA	67.1	95.7	96.1	73.9	95.5	34.8	0.0	21.7 1.	1.0 1.	3.0 11.	0 13.	0.0	-
1-5	80	9	66.7	0.0	0.0	0.0	0.0	0.0	75.0	81.8 2	15.0 10	0.0 10	0.0 10	0.0 100	0.0 100.	0 NA	30.3	3 100.0	84.8	62.5	84.8	37.5	0.0	25.0 15	5.2 1.	2.5 15.	2 12.	5 15.2	- >
6-10	38	35	82.8	47.9	0.0	0.0	10.0	12.5	86.8	94.5 3	13.3 8	(2.9 9	7.4 8	8.4 97	.4 88.	4 NA	73.9	94.7	84.4	76.3	100.0	28.9	0.0	34.2 22	2.1 2.	8.9 7.	5 13.	2 0.0	-
11+	29	30	75.0	20.3	0.0	0.0	12.5	0.0	86.2	91.3 3	14.5 8	13.8 10	0.0 8	1.5 93	1.1 78.	6 NA	58.4	4 82.8	94.2	65.5	97.1	31.0	0.0	10.3	6.9 2	7.6 0.1	0 17.	2 0.0	-
Marital status																													
Never mar- ried	57	79	75.0	36.3	100.0	0.0	12.5	0.0	87.7	90.3 3	12.1 8	8.8 9	8.2 8	9.2 96	6.5 88.	I NA	62.5	89.5	91.5	68.4	97.8	28.1	0.0	19.3 1	1.9 1.	5.8 6.	1 8.	8 1.1	
Currently married	32	19	80.0	58.6	0.0	0.0	14.3	5.6	84.4 1	00.0	36.7 7	8.7 10	0.0	7.0 96	6.9 93.	5 NA	69.4	1 93.8	93.5	71.9	93.5	34.4	0.0	28.1 2	7.8 3	4.4 9.	3 21.	9.0	-
Other	11	2	75.0	0.0	0.0	0.0	0.0	0.0	90.9 1	0.00	6.4 10	0.0 10	0.0 5	8.3 100	0.0 58.	3 NA	58.3	3 100.0	41.7	9.06	0.001	36.4	0.0	27.3	0.0 2	7.3 0.	0 18.	2 0.0	-
Self identifica	tion																												
Kothi	57	54	81.6	49.2	100.0	0.0	20.0	0.0	91.2	89.5 3	16.4 8	3.3 9	8.2 9.	2.8 98	3.2 95.	1 NA	72.9	9.5	90.5	66.7	98.4	29.8	0.0 2	22.8	9.2 2	1.1 5.	2 14.	0 1.6	
Panthi	1	6	100.0	100.0	0.0	0.0	0.0	0.0 1	00.0 1	00.0 10	0.0	8.3 10	0.0 2	7.8 100	0.0 27.	8 NA	100.0	100.0	66.7	100.0	100.0	0.0	0.0 10	0.00	0.0	0.0	0.0	0.0	-
Double Deckers/ AC/DC	29	23	68.8	11.9	0.0	0.0	0.0	13.9	75.9	96.0 2	21.4 9	10	0.0	8.6 93	6.1 74.	6 NA	50.0) 93.1	92.1	72.4	96.0	31.0	0.0	24.1 19	9.8 2	7.6 7.	9 17.	2 0.0	-
Bisexual	0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	0.00	0.0	.5.0	0.0	9.2 0	.0 79.	2 NA	50.0	0.0	100.0	0.0	70.8	0.0	0.0	0.0 5-	4.2	0.0	0.	0.0	-
Hijra	13	16	66.7	17.2	0.0	0.0	0.0	0.0	92.3	93.4 2	3.1 10	0.0 10	0.0 10	0.0 100	0.0 100.	0 NA	50.5	5 100.0	92.3	92.3	0.001	38.5	0.0	15.4 18	8.7 2.	3.1 12.	1 7.	7 0.0	-
Sub-sample of	f thos w.	ho have	partnei	r; NA: N	lot Avail	able																							

67 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

Additional Indicators at a Glance for Clients of FSWs

							Clie	onts-1: Belga	um District									
	Z		Have a occ FSW pa	assional urtner	Have a regu partu	ılar FSW ıer	Have a mai sexual p:	in female artner	Have other ular, non-c cial partne past one	non-reg- ommer- r in the year	Had sex wit hijra pa	h a man/ rtner	Ever had a with F	anal sex SW	Heard of H	IV/AIDS	Feels at risl infected w AII	k of being ith HIV/ DS
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2
Age																		
<20	28	9	94.7	87.2	10.7	42.3	33.5	70.5	22.4	12.8	2.2	0.0	10.4	0.0	91.5	100.0	11.3	32.1
20-24	103	96	85.2	88.5	24.8	30.8	41.6	56.7	22.8	7.3	2.0	1.5	11.2	8.2	88.5	94.9	11.7	3.5
25-29	107	92	81.8	85.9	27.7	27.0	72.9	84.6	16.4	9.1	1.0	1.2	7.1	7.0	93.6	91.0	8.3	6.4
30-34	59	78	81.6	91.9	30.3	36.3	81.9	91.2	15.4	15.0	6.1	2.4	8.1	6.5	95.0	98.7	12.6	5.1
35-39	47	47	94.1	95.7	17.0	26.8	91.0	91.0	16.7	7.4	3.1	0.0	4.1	0.0	90.5	92.1	11.8	7.3
40-44	34	49	92.7	87.7	23.6	33.3	83.9	100.0	14.8	3.9	0.0	0.0	2.2	6.2	89.9	98.1	9.0	5.9
45+	32	48	90.1	74.8	19.2	36.3	97.0	98.1	6.3	14.8	3.1	0.0	3.7	3.8	81.7	90.5	14.0	6.7
Educational attainmen																		
Illiterate	104	145	90.6	86.3	18.0	32.3	71.1	90.3	9.1	9.7	4.2	0.0	7.3	8.0	77.4	90.6	12.6	4.6
1-5	52	43	84.4	86.2	29.4	32.9	78.1	79.2	25.3	12.6	3.3	0.0	6.3	2.1	85.7	91.6	8.8	10.4
6-10	165	146	86.3	87.4	21.2	31.6	63.5	83.1	16.0	7.1	1.7	1.5	10.6	5.9	95.6	97.4	9.8	4.5
11 +	91	82	83.2	92.0	32.0	30.0	6.99	72.4	24.1	12.9	1.1	2.8	3.4	3.8	100.0	97.3	12.0	8.8
Current marital status																		
Never married	145	72	89.1	90.1	20.8	25.3	20.5	15.3	21.9	3.2	1.8	1.5	11.1	9.8	91.8	97.1	12.9	6.3
Currently married	252	330	85.9	87.0	25.0	31.0	100.0	100.0	15.4	10.8	2.9	0.6	5.4	5.2	91.4	93.5	8.3	5.5
Other	13	14	65.4	94.4	40.4	74.4	9.0	34.2	6.8	16.7	0.0	9.2	7.8	0.0	72.7	100.0	39.3	13.5
Usual place of residenc	e																	
Localite	355	389	85.7	87.5	25.5	31.4	69.6	82.6	17.0	9.8	2.8	1.1	8.2	6.0	90.7	94.0	10.4	5.9
Non localite	55	27	90.3	92.1	15.3	36.0	59.4	89.7	20.4	8.7	0.0	0.0	4.2	3.4	92.2	100.0	13.2	6.9
Currently cohabiting																		
Yes	279	340	87.0	86.8	25.2	31.5	98.3	99.7	14.6	10.8	2.6	0.6	6.1	5.3	92.3	93.4	10.3	6.4
No	131	76	85.0	92.3	21.4	32.2	4.4	7.9	23.5	4.9	2.1	3.3	10.7	8.1	87.9	98.8	11.9	4.1
Place of solicitation																		
Public place	141	175	88.8	96.3	18.4	17.6	71.9	84.6	15.1	5.3	2.3	0.5	5.4	5.1	84.7	91.4	7.0	3.2
Brothel/hotel/lodge/ Dhaba	100	48	93.3	94.1	13.9	22.4	62.2	86.6	13.7	17.8	2.2	0.0	5.4	11.9	94.5	88.4	9.7	9.8
Home	165	90	80.6	84.2	34.9	50.9	69.1	83.7	22.7	13.7	2.7	0.0	11.1	6.0	93.0	97.9	14.8	5.9
Others	4	4	20.4	100.0	79.6	76.6	79.6	44.1	0.0	32.6	0.0	55.9	0.0	0.0	100.0	100.0	0.0	20.0

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	Z		Have a occ FSW pa	assional urtner	Have a reg parti	ular FSW ner	Have a ma sexual p	in female vartner	Have other ular, non-c cial partne past one	non-reg- commer- er in the 2 year	Had sex wii hijra pa	'h a man/ rtner	Ever had a with F	anal sex 3SW	Heard of H	IV/AIDS	Feels at rish infected w AII	t of being ith HIV/ S
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2
Age																		
<20	23	6	97.4	90.3	70.3	55.2	22.2	19.4	11.9	0.0	11.4	0.0	6.4	22.4	94.6	100.0	17.5	8.5
20-24	142	106	97.0	84.2	51.9	29.2	48.5	39.2	10.7	7.4	1.7	8.9	4.5	8.1	95.9	100.0	5.6	5.4
25-29	89	121	99.2	90.2	49.3	24.7	83.6	73.8	8.3	7.2	5.9	6.7	5.5	8.1	96.8	100.0	14.1	5.1
30-34	56	69	95.0	78.9	60.3	37.3	87.1	95.2	4.6	8.0	1.4	10.8	1.4	12.7	97.4	98.7	19.6	10.1
35-39	51	46	98.4	86.5	49.1	29.4	94.6	96.4	2.9	0.0	3.0	8.6	3.0	13.4	95.2	100.0	8.6	6.2
40-44	31	30	100.0	80.6	63.2	25.7	97.5	100.0	4.9	3.0	2.5	3.4	10.8	10.8	94.7	100.0	14.5	6.1
45+	32	20	97.6	89.9	51.1	24.5	84.0	100.0	8.9	3.9	0.0	8.8	0.0	3.9	97.6	100.0	4.1	3.9
Educational attainment	ţ																	
Illiterate	144	170	98.3	86.0	54.8	23.6	75.1	77.0	3.4	4.1	0.5	6.1	4.5	8.1	93.8	99.5	7.0	8.7
1-5	92	45	93.6	77.9	46.8	39.4	71.6	76.8	5.5	10.3	5.1	19.0	3.2	17.4	94.1	100.0	14.0	6.1
6-10	144	144	0.66	86.0	55.4	34.0	68.3	71.5	11.6	6.9	5.7	4.4	6.1	9.8	97.9	100.0	12.0	4.5
11+	50	42	98.8	90.5	60.8	25.5	59.4	56.8	13.5	5.3	0.0	15.9	1.5	8.5	100.0	100.0	11.2	2.2
Current marital status																		
Never married	134	106	97.3	85.9	54.0	28.5	15.9	0.0	8.5	7.1	3.5	12.0	3.2	8.8	94.7	100.0	9.2	5.7
Currently married	284	293	97.8	85.7	54.6	29.2	99.4	9.66	8.0	5.5	2.9	6.4	4.8	10.2	97.0	99.7	11.6	6.4
Other	9	2	100.0	42.9	32.4	100.0	0.0	0.0	0.0	0.0	14.1	0.0	14.1	0.0	88.8	100.0	15.8	0.0
Usual place of residence	e																	
Localite	407	392	97.6	85.6	54.3	28.3	71.0	73.2	7.7	6.1	3.5	7.9	4.7	9.5	95.9	8.66	10.7	6.2
Non localite	17	6	97.3	84.8	49.6	71.4	53.9	60.3	13.0	0.0	0.0	8.3	0.0	20.7	100.0	100.0	13.2	6.9
Currently cohabiting																		
Yes	298	293	97.9	85.7	57.4	29.2	95.2	9.66	9.0	5.5	2.7	6.4	4.7	10.2	97.2	7.66	12.7	6.4
No	126	108	97.0	85.2	46.3	29.5	11.5	0.0	5.8	7.0	4.5	11.9	3.7	8.7	93.6	100.0	6.4	5.6
Place of solicitation																		
Public place	238	71	98.1	92.8	46.7	8.3	76.9	78.6	8.5	2.4	3.7	8.0	4.1	10.4	96.3	100.0	9.8	3.9
Brothel/hotel/lodge/ Dhaba	66	78	97.7	90.1	67.8	25.3	60.1	68.6	9.4	8.4	2.9	11.8	4.1	11.4	95.9	100.0	15.9	7.3
Home	119	157	96.8	88.6	54.0	21.7	67.4	71.2	6.1	4.2	1.2	4.3	5.3	8.1	96.1	100.0	7.9	5.8
Others	1	17	100.0	81.5	0.0	56.5	100.0	81.1	0.0	4.0	100.0	4.6	0.0	9.2	100.0	100.0	0.0	15.2

69 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

	Z		Have a occ FSW pa	assional rtner	Have a regu partn	ılar FSW ıer	Have a ma sexual p	in female artner	Have other ular, non-c cial partne past one	non-reg- ommer- r in the year	Had sex wit hijra pa	h a man/ rtner	Ever had a with F	anal sex SW	Heard of H	IV/AIDS	Feels at ris infected w AII	k of being ith HIV/ DS
	RI	R2	R1	R2	RI	R2	R1	R2	R1	R2	R1	R2	R1	R2	RI	R2	R1	R2
Age																		
<20	14	5	100.0	100.0	0.0	22.9	16.6	0.0	16.5	0.0	0.0	0.0	5.5	0.0	100.0	76.3	5.5	0.0
20-24	88	85	90.0	82.9	20.2	60.3	25.6	26.1	17.1	11.8	2.8	0.0	0.9	7.0	96.0	95.8	17.4	6.4
25-29	103	104	92.3	83.4	15.2	52.4	52.5	65.4	23.7	11.9	2.8	1.6	4.5	4.7	96.9	96.4	7.3	3.3
30-34	83	63	97.6	89.0	9.4	46.4	89.9	85.6	34.9	7.0	1.1	4.2	9.9	1.6	97.2	95.8	0.9	1.4
35-39	55	46	96.6	86.0	6.4	65.0	92.6	98.0	27.2	7.1	0.0	1.6	4.2	12.8	94.2	96.8	6.3	1.7
40-44	37	45	97.3	86.1	10.7	46.3	89.3	95.9	23.6	5.9	0.0	2.3	2.6	6.5	92.0	97.8	4.6	1.9
45+	46	37	98.3	75.2	4.6	45.0	96.1	100.0	21.9	11.3	0.0	2.2	3.1	0.0	88.0	95.3	6.2	2.3
Educational attainment																		
Illiterate	96	92	97.0	83.3	8.3	55.2	84.6	86.9	21.0	4.9	2.5	0.9	5.3	0.0	91.1	94.2	4.4	0.0
1-5	55	27	95.5	84.8	11.0	61.9	76.0	85.3	36.2	19.4	1.8	0.0	5.7	0.0	97.0	82.2	8.1	3.5
6-10	214	202	94.9	84.8	12.0	49.5	60.5	62.7	20.7	10.8	0.8	2.2	3.5	5.9	95.6	98.3	8.1	4.2
11+	62	64	90.4	83.5	17.5	57.7	51.6	64.1	34.8	8.1	1.8	2.6	6.3	14.5	98.7	97.4	9.0	4.0
Current marital status																		
Never married	167	134	89.7	79.2	20.8	56.3	16.1	14.0	21.1	10.7	2.1	2.0	3.3	7.2	97.4	96.5	9.5	4.0
Currently married	251	247	98.0	86.7	6.5	51.0	100.0	100.0	26.9	8.7	1.1	1.7	5.6	3.8	94.9	95.7	6.1	2.5
Other	8	4	100.0	100.0	0.0	74.7	11.4	72.9	34.1	26.4	0.0	0.0	0.0	51.7	45.5	100.0	0.0	21.1
Usual place of residence	a																	
Localite	418	361	94.8	84.4	11.8	52.7	6.99	70.1	24.1	7.7	1.5	1.9	4.7	5.8	95.1	96.5	7.5	2.9
Non localite	8	24	100.0	82.0	11.1	58.4	71.6	74.2	63.9	38.2	0.0	0.0	0.0	0.0	100.0	89.2	0.0	7.6
Currently cohabiting																		
Yes	278	259	96.1	86.9	10.3	52.0	100.0	99.6	26.1	9.1	1.0	1.6	5.5	4.1	95.1	95.9	7.8	3.1
No	148	126	92.5	78.7	14.8	55.4	1.6	9.2	22.2	10.6	2.4	2.1	3.0	8.4	95.3	96.3	6.4	3.4
Place of solicitation																		
Public place	118	118	96.4	91.6	7.8	52.9	68.1	73.3	19.7	10.8	1.9	0.9	3.4	3.2	93.2	95.0	7.7	5.4
Brothel/hotel/lodge/ Dhaba	46	45	97.2	90.6	4.5	38.5	67.5	73.6	21.6	13.6	1.6	10.1	6.1	13.3	97.0	94.2	1.7	2.1
Home	261	87	93.8	80.8	14.4	53.5	66.7	77.0	27.6	5.0	1.2	0.9	4.9	5.4	95.7	96.2	8.4	4.9

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	Z		Have a occ FSW pi	cassional artner	Have a regu partn	ılar FSW ıer	Have a ma sexual p	in female artner	Have other ular, non-c cial partne past one	non-reg- commer- er in the year	Had sex wi hijra pa	th a man/ urtner	Ever had with J	anal sex FSW	Heard of F	IIV/AIDS	Feels at ris infected w AII	k of being ith HIV/ DS
	R1	\mathbb{R}^2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	\mathbb{R}^2	RI	R2	R1	R2
Age																		
<20	14	IJ	97.9	100.0	3.9	0.0	19.7	0.0	27.3	19.3	17.8	8.1	1.8	16.3	79.8	100.0	4.8	7.1
20-24	88	85	89.2	92.4	34.0	19.2	35.3	27.6	28.8	4.3	17.5	5.2	15.1	8.0	88.2	99.5	13.1	5.3
25-29	103	104	87.4	96.3	48.8	22.0	53.8	58.5	27.6	6.4	11.8	3.2	13.4	12.6	93.5	99.2	10.7	4.5
30-34	83	63	88.1	91.1	35.5	20.2	90.3	85.2	25.4	11.3	21.9	5.3	11.7	11.9	92.0	100.0	20.3	4.5
35-39	55	46	91.3	88.4	40.9	30.9	94.1	97.2	21.2	7.9	10.6	0.7	15.9	14.3	86.9	100.0	10.2	3.1
40-44	37	45	77.2	90.8	48.0	25.6	90.1	96.6	15.7	8.5	14.5	3.5	18.9	12.6	93.1	98.6	9.9	3.7
45+	46	37	84.2	86.8	59.7	31.4	92.3	100.0	19.1	7.2	3.1	1.7	24.0	10.9	82.2	98.8	10.3	8.5
Educational attainment																		
Illiterate	96	92	95.0	96.8	31.8	21.8	75.9	81.4	18.0	7.5	23.2	4.0	19.6	13.7	79.4	97.6	18.7	3.5
1-5	55	27	80.3	91.9	41.4	23.7	67.3	80.0	27.8	5.1	11.4	6.3	15.2	8.8	87.3	100.0	12.4	5.1
6-10	214	202	87.6	91.2	47.8	21.5	69.0	64.4	25.4	6.5	10.3	3.1	15.4	10.9	91.9	100.0	12.5	5.5
11+	62	64	85.1	88.2	35.4	29.1	55.7	59.8	28.5	10.8	17.7	2.9	8.5	12.3	95.6	100.0	7.5	4.6
Current marital status																		
Never married	167	134	86.8	93.4	37.0	21.9	25.5	1.5	28.7	8.9	13.6	5.8	12.8	9.5	87.5	100.0	11.9	5.0
Currently married	251	247	88.3	91.5	45.2	23.9	95.5	99.4	22.7	6.9	14.9	2.6	16.4	12.7	90.6	99.2	13.0	4.7
Other	8	4	88.1	61.5	29.4	38.5	45.5	0.0	10.4	0.0	0.0	0.0	15.0	0.0	100.0	100.0	15.1	0.0
Usual place of residence	0																	
Localite	418	361	87.3	91.9	41.9	23.5	68.1	69.0	25.2	7.6	14.7	3.6	15.1	11.8	89.9	99.4	13.0	4.9
Non localite	8	24	93.8	100.0	39.8	11.4	64.8	68.3	19.0	0.0	7.0	0.0	12.8	0.0	84.6	100.0	8.0	0.0
Currently cohabiting																		
Yes	278	259	87.8	91.4	45.4	24.3	94.6	99.2	21.7	6.8	14.8	2.6	15.7	12.6	90.9	99.2	13.5	4.7
No	148	126	87.4	93.4	34.9	21.3	17.3	0.4	30.6	8.9	13.0	5.8	13.7	9.6	87.0	100.0	11.0	5.0
Place of solicitation																		
Public place	118	118	92.2	98.1	41.2	10.3	66.5	72.5	28.9	5.2	15.2	3.5	18.3	14.0	90.9	98.4	11.9	5.4
Brothel/hotel/lodge/ Dhaba	46	45	89.6	100.0	30.2	4.3	70.2	66.9	17.2	0.0	11.2	3.1	13.9	6.9	90.0	100.0	10.7	2.3
Home	261	87	81.5	95.4	51.2	26.4	68.9	69.4	24.8	14.9	14.7	3.1	13.0	16.1	87.6	0.66	14.0	7.3

71 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

Clients-1: Mysore District

	4	-	Have a occ FSW på	assional urtner	Have a regu parti	ılar FSW ıer	Have a mai sexual p	in female artner	Have other ular, non-c cial partno past ono	non-reg- commer- er in the e year	Had sex wi hijra p	tth a man/ artner	Ever had with I	anal sex FSW	Heard of H	IV/AIDS	Feels at risk infected wi AID	of being th HIV/ S
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2
Age																		
<20	8	8	50.0	63.7	87.5	69.0	0.0	19.6	0.0	0.0	0.0	0.0	0.0	0.0	75.0	64.8	50.0	9.3
20-24	75	73	73.3	65.7	62.7	53.2	22.7	18.6	14.7	0.0	9.3	16.7	2.7	5.3	85.3	85.5	53.1	24.5
25-29	85	91	76.5	59.6	64.7	60.3	8.2	12.8	10.6	1.3	9.4	8.9	2.4	0.0	85.9	82.4	52.1	39.2
30-34	57	66	71.9	68.8	80.7	53.8	7.0	24.2	12.3	3.7	8.8	10.9	1.8	4.3	87.7	83.6	48.0	28.9
35-39	65	58	81.5	76.1	67.7	66.7	12.3	15.3	0.0	0.0	4.6	5.9	1.5	0.9	86.2	81.4	50.0	31.8
40-44	54	36	75.9	73.6	74.1	71.2	7.4	29.7	9.3	0.0	1.9	7.0	0.0	0.0	88.9	82.6	45.8	18.8
45+	81	93	75.3	77.7	74.1	55.6	13.6	22.6	7.4	0.0	6.2	5.8	4.9	1.1	87.7	81.5	52.1	17.0
Educational attainment	Ŀ																	
Illiterate	170	225	67.1	68.5	71.8	58.7	10.6	16.7	10.0	0.7	5.3	9.3	1.8	1.9	82.4	74.7	62.9	31.3
1-5	26	17	76.9	91.9	80.8	43.2	0.0	12.6	7.7	0.0	15.4	2.9	3.8	0.0	88.5	86.8	26.1	0.0
6-10	161	117	84.5	71.3	64.0	60.4	11.8	21.5	8.1	1.7	8.1	10.0	3.1	3.4	88.8	90.06	46.2	17.4
11+	68	66	73.5	65.6	77.9	61.8	20.6	28.1	8.8	0.0	4.4	8.2	1.5	0.0	91.2	95.3	41.9	36.7
Current marital status																		
Never married	100	126	73.0	54.1	77.0	60.0	13.0	9.1	13.0	0.9	12.0	12.6	2.0	1.7	84.0	78.9	45.2	41.1
Currently married	320	284	76.3	78.3	68.1	57.3	11.9	25.3	7.5	0.8	5.3	7.5	2.5	2.1	87.5	84.6	51.8	20.6
Other	5	15	60.0	40.1	80.0	85.7	0.0	0.0	20.0	0.0	0.0	8.7	0.0	0.0	80.0	70.1	75.0	34.1
Usual place of residence	e																	
Localite	333	395	74.5	68.9	72.7	60.5	8.7	20.1	7.5	0.6	5.4	9.0	1.8	1.5	88.6	83.3	54.2	26.9
Non localite	91	26	78.0	79.9	61.5	36.4	23.1	14.8	14.3	4.2	12.1	12.0	4.4	7.9	79.1	76.4	36.1	27.3
Currently cohabiting																		
Yes	349	291	76.2	78.1	68.5	58.3	12.6	25.1	8.6	0.8	5.7	7.3	2.3	2.1	86.8	84.3	50.2	21.2
No	76	134	71.1	51.5	78.9	60.5	9.2	7.5	10.5	0.9	11.8	13.0	2.6	1.6	85.5	78.2	52.3	40.1
Place of solicitation																		
Public place	407	245	74.9	72.8	71.0	55.7	12.3	15.4	8.1	0.8	6.1	8.4	2.2	1.9	86.7	78.6	51.0	22.5
Brothel/hotel/lodge/ Dhaba	6	68	88.9	65.1	55.6	54.5	11.1	17.7	33.3	1.6	11.1	8.3	11.1	1.5	66.7	80.8	33.3	27.5
Home	7	78	71.4	57.7	71.4	78.5	0.0	30.9	14.3	0.6	42.9	6.5	0.0	0.0	100.0	91.1	42.9	39.3

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	4	1	Have a occ FSW pa	cassional artner	Have a reg partı	ular FSW ner	Have a ma sexual p	in female bartner	Have other ular, non-c cial partn	: non-reg- commer- er in the	Had sex wi hijra p	th a man/ artner	Ever had with	anal sex FSW	Heard of F	IIV/AIDS	Feels at ris infected v AU	k of being ith HIV/ DS
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	IN	Nz	IN	N2	VI	V2	IN	V2	VI	V2	W	2	M	N2	W	V2	W	Z
Age																		
<20	28	NA	80.1	NA	61.4	NA	39.5	NA	17.4	NA	0.0	NA	0.0	NA	96.7	NA	15.3	NA
20-24	121	NA	70.4	NA	68.2	NA	62.4	NA	29.3	NA	0.0	NA	0.7	NA	97.7	NA	13.1	NA
25-29	113	NA	66.8	NA	70.2	NA	82.3	NA	23.0	NA	3.2	NA	2.7	NA	98.2	NA	10.6	NA
30-34	65	NA	60.8	NA	66.6	NA	85.9	NA	17.1	NA	0.0	NA	1.4	NA	98.4	NA	12.1	NA
35-39	43	NA	59.8	NA	76.2	NA	92.4	NA	12.8	NA	2.3	NA	2.3	NA	90.1	NA	9.5	NA
40-44	27	NA	77.5	NA	62.3	NA	87.7	NA	11.7	NA	0.0	NA	11.8	NA	89.1	NA	3.7	NA
45+	37	NA	61.8	NA	78.3	NA	83.1	NA	5.6	NA	0.0	NA	2.8	NA	92.0	NA	6.1	NA
Educational attainment																		
Illiterate	142	NA	70.0	NA	63.7	NA	78.1	NA	20.9	NA	1.9	NA	3.0	NA	90.8	NA	10.7	NA
1-5	66	NA	65.2	NA	71.1	NA	96.9	NA	17.4	NA	1.4	NA	3.0	NA	98.6	NA	4.5	NA
6-10	146	NA	69.5	NA	73.2	NA	75.0	NA	21.7	NA	0.6	NA	2.7	NA	98.1	NA	11.3	NA
11+	80	NA	60.3	NA	70.9	NA	56.9	NA	19.2	NA	0.0	NA	0.0	NA	100.0	NA	16.3	NA
Current marital status																		
Never married	130	NA	70.5	NA	66.1	NA	35.2	NA	25.9	NA	1.4	NA	0.9	NA	98.6	NA	17.3	NA
Currently married	279	NA	6.99	NA	70.4	NA	99.3	NA	18.7	NA	1.0	NA	3.2	NA	95.8	NA	8.2	NA
Other	25	NA	55.3	NA	73.0	NA	30.5	NA	10.9	NA	0.0	NA	0.0	NA	87.5	NA	8.7	NA
Usual place of residenc	e																	
Localite	328	NA	67.8	NA	73.6	NA	76.4	NA	21.5	NA	0.9	NA	3.1	NA	96.3	NA	8.8	NA
Non localite	106	NA	65.8	NA	56.6	NA	74.8	NA	16.9	NA	1.6	NA	0.0	NA	95.7	NA	17.5	NA
Currently cohabiting																		
Yes	331	NA	66.7	NA	72.8	NA	98.6	NA	20.4	NA	1.1	NA	3.0	NA	95.5	NA	8.9	NA
No	103	NA	69.4	NA	58.1	NA	3.2	NA	20.1	NA	0.9	NA	0.0	NA	98.1	NA	17.7	NA
Place of solicitation																		
Public place	53	NA	42.0	NA	85.7	NA	73.5	NA	20.0	NA	1.7	NA	4.0	NA	98.1	NA	15.1	NA
Brothel/hotel/lodge/ Dhaba	13	NA	100.0	NA	62.7	NA	93.2	NA	25.1	NA	0.0	NA	0.0	NA	100.0	NA	8.0	NA
Home	352	NA	69.8	NA	66.0	NA	76.0	NA	20.3	NA	1.1	NA	2.0	NA	95.8	NA	10.1	NA

73 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

Clients-2: Belgaum District

	Z	Co don cas	nsistent cor a use with o ional FSWs	1- Condo	onsistent om use with llar FSWs*	Cons condom main f sexual p	istent use with emale artner*	Consis condon with mal- partn	stent n use e/hijra er*	Consistent dom use d anal sex v FSW*	t con- uring vith	Ever take HIV/AID	n an S test	Active Sypl	illis	High-ti Syphil	is	HIV		-VSH	Ģ
	R1 R	2 F	11 R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2
Age	-		-	-	-					-	-			-	-						
<20	28	9	51.2 87	7.2	7.5 42.3	4.1	32.1	2.2	0.0	6.6	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.3	18.9	2.4	24.5
20-24	103	96	57.4 71	4.	7.8 18.6	5.2	4.1	0.0	1.5	6.6	8.2	7.6	16.2	2.7	1.0	1.1	0.0	3.6	0.0	14.7	3.2
25-29	107	92	40.0 63	1.5 15	5.0 17.4	3.2	0.0	0.0	1.2	3.8	6.0	20.4	21.2	2.8	1.2	1.0	0.0	6.7	1.2	23.4	19.1
30-34	59	78	41.9 72	1.9 15	7.2 19.6	9.0	2.2	1.3	2.4	5.6	5.1	20.4	33.3	3.7	1.7	1.4	1.7	7.7	4.7	30.6	18.5
35-39	47	47	29.1 67	11 11	1.1 16.9	1.7	0.0	3.1	0.0	1.7	0.0	10.8	23.5	11.2	4.3	5.8	0.0	13.0	5.2	56.8	40.7
40-44	34	49	38.7 65	.6	3.4 25.1	5.4	3.9	0.0	0.0	2.2	3.9	23.6	31.8	0.0	4.1	0.0	0.0	2.4	6.1	35.1	43.8
45+	32	48	22.3 53	.3	2.8 22.6	2.8	4.4	0.0	0.0	0.0	3.8	17.4	20.6	15.2	0.0	7.7	0.0	8.1	2.9	59.9	42.5
Educational attainme	nt		-	-	-					-	-			-				-			
Illiterate	104	145	37.4 63	.6	2.2 19.3	2.2	3.3	2.2	0.0	2.3	7.2	8.5	19.8	8.6	3.8	3.7	0.9	8.0	3.3	35.6	26.9
1-5	52	43	33.6 57	.6 15	5.5 23.7	2.9	0.0	0.0	0.0	4.8	2.1	17.9	23.0	5.5	5.6	5.5	0.0	3.8	3.2	29.0	23.9
6-10	165	146	47.3 68	.2	7.0 19.7	5.8	1.4	0.4	1.5	7.1	4.5	15.1	25.7	2.8	0.0	0.6	0.0	4.9	1.8	25.3	22.3
11+	91	82	45.9 75	.9 23	3.2 19.5	6.0	6.0	0.0	2.8	1.6	3.8	19.1	25.9	1.1	0.0	0.0	0.0	8.0	4.6	23.3	17.7
Current marital statu	s																				
Never married	145	72	57.2 79	.2 12	2.6 16.1	5.5	8.4	0.4	1.5	7.2	9.8	6.8	13.0	1.7	1.5	0.6	0.0	6.1	0.0	15.5	5.0
Currently married	252	330	35.1 63	8.	9.9 19.3	4.3	0.9	0.9	0.6	2.9	4.3	19.6	25.4	4.8	2.0	2.1	0.4	5.7	3.8	32.6	25.8
Other	13	14	30.0 80	.1 5	50.9	0.0	18.8	0.0	9.2	0.0	0.0	15.9	28.4	23.7	0.0	13.2	0.0	16.5	0.0	79.8	43.6
Usual place of resider	Ice																				
Localite	355	389	41.9 65.	.7 11	7 19.4	4.7	2.6	0.8	1.1	5.0	5.2	14.9	23.4	3.9	1.7	2.2	0.3	6.8	2.5	26.5	23.2
Non localite	55	27	49.1 87	.5	5.3 27.4	1 3.9	6.9	0.0	0.0	1.0	3.4	14.3	23.1	6.1	4.1	0.0	0.0	2.9	11.3	35.7	21.0
Currently cohabiting																					
Yes	279	340	37.8 63	1.8 10	0.2 19.3	5.9	2.3	0.8	0.6	3.5	4.4	18.3	25.4	4.6	1.9	2.2	0.4	5.4	3.7	29.9	25.6
No	131	76	53.7 81	.8	1.9 23.0	2.0	5.3	0.5	3.3	6.2	8.1	7.6	14.2	3.5	1.3	1.3	0.0	7.9	0.0	23.6	12.2
Place of solicitation																					
Public place	141	175	33.5 72	.5 8	3.7 12.7	. 1.4	0.6	0.6	0.5	4.1	4.5	12.4	22.3	1.8	3.3	0.0	0.8	4.2	3.1	25.2	21.0
Brothel/hotel/ lodge/Dhaba	100	48	63.5 73	.8	4.7 17.1	5.3	10.1	0.5	0.0	5.4	11.9	16.5	31.4	7.2	2.1	3.1	0.0	6.2	2.0	24.7	19.0
Home	165	90	36.1 70	1.7 1.5	7.2 28.2	6.8	3.1	0.9	0.0	3.9	6.0	15.9	25.5	4.0	1.1	2.5	0.0	7.9	1.2	32.5	20.4
Heard/seen/read adve	ertisement o	r message	e on condon	ns in the J	past six moi	nths															
No	39	27	32.0 30	3 8	3.3 3.3	0.0	0.0	0.0	0.0	1.9	0.0	0.0	9.3	5.3	5.3	2.8	0.0	6.3	0.0	23.0	37.0
Yes	371	393	44.1 69	.6 11	1.0 21.1	5.1	3.0	0.8	1.2	4.6	5.4	16.4	24.3	4.1	1.6	1.8	0.3	6.2	3.2	28.4	22.4
Heard/seen/read adv	ertisements/	messages	on STI in th	he past si:	x months																
No	226	90	38.5 62	5 1.	9.5 3.0	3.7	2.5	1.0	0.0	4.5	8.6	8.4	14.9	3.6	4.0	0.9	0.0	5.2	0.0	29.3	19.1
Yes	184	329	48.4 68	.4 12	24.6	5.7	2.9	0.3	1.4	4.2	4.1	22.7	25.7	5.1	1.3	3.2	0.4	7.5	3.8	26.1	24.0
*Sub-sample of those v	vho have par	tner; NA:	Not Availat	əle																	

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	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2
Age																						
<20	23	6	58.0	69.7	40.0	42.1	4.1	0.0	0.0	0.0	0.0	22.4	16.4	10.0	7.1	0.0	0.0	0.0	7.1	0.0	7.9	13.1
20-24	142	106	44.0	67.4	20.1	20.8	4.4	0.0	1.2	6.6	3.1	6.5	12.2	19.1	0.5	2.7	0.0	0.0	3.3	4.8	13.0	8.2
25-29	89	121	51.1	73.9	15.8	18.7	1.4	1.0	2.0	6.7	4.0	5.8	16.5	26.7	12.1	1.8	5.9	0.0	8.3	4.5	29.9	18.7
30-34	56	69	46.1	61.5	28.3	27.2	3.1	0.0	0.0	10.8	0.0	7.3	20.5	28.8	2.9	0.0	0.0	0.0	3.4	11.7	24.9	23.3
35-39	51	46	11.9	59.3	4.5	11.8	0.0	1.7	0.0	4.1	0.0	8.9	18.6	31.3	12.2	4.5	0.0	0.0	9.2	12.2	34.5	22.1
40-44	31	30	16.9	58.4	7.3	17.3	0.0	0.0	0.0	3.4	2.5	6.3	17.1	26.5	6.3	5.5	0.0	0.0	9.8	3.4	64.4	17.2
45+	32	20	21.9	50.1	12.3	14.9	0.0	0.0	0.0	8.8	0.0	3.9	20.8	14.5	6.1	0.0	0.0	0.0	8.2	0.0	58.6	30.3
Educational attainn	nent																					
Illiterate	144	170	37.2	70.5	17.5	17.4	1.5	0.0	0.0	5.6	2.2	5.1	12.9	21.6	8.4	4.1	1.4	0.0	5.0	7.2	33.6	18.0
1-5	92	45	33.6	53.3	12.5	22.2	2.1	0.0	1.1	15.3	1.5	13.7	17.2	26.4	4.8	2.1	0.0	0.0	9.1	10.1	25.4	15.0
6-10	144	144	40.8	63.5	18.8	22.5	2.3	1.4	1.7	3.7	2.9	7.2	15.1	22.3	4.8	0.8	2.3	0.0	4.5	5.2	21.1	18.0
11 +	50	42	48.5	69.4	27.8	21.1	6.0	0.0	0.0	13.6	0.0	6.2	23.1	43.0	4.1	0.0	0.0	0.0	7.4	2.1	27.2	14.0
Current marital stat	tus																					
Never married	134	106	54.9	68.4	30.6	18.6	5.3	0.0	0.7	10.5	2.7	6.4	14.4	24.2	2.9	1.9	0.0	0.0	4.8	5.7	10.3	13.1
Currently married	284	293	31.9	65.2	12.6	20.2	1.1	0.7	0.9	5.5	1.8	7.1	16.8	24.8	7.5	2.4	1.9	0.0	5.9	6.5	34.2	18.9
Other	9	2	31.4	42.9	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	0.0	0.0	0.0	0.0	0.0	38.8	0.0	70.4	0.0
Usual place of resid	ence																					
Localite	407	392	39.9	66.5	18.8	19.6	2.7	0.5	0.9	6.7	2.2	6.6	15.1	24.6	4.8	2.1	0.4	0.0	5.7	6.4	27.3	17.1
Non localite	17	6	35.8	42.1	13.5	40.0	0.0	0.0	0.0	8.3	0.0	20.7	31.6	21.4	22.4	8.5	13.8	0.0	10.9	0.0	16.5	23.4
Currently cohabitir.	ß																					
Yes	298	293	34.7	65.2	15.8	20.2	2.5	0.7	0.9	5.5	1.9	7.1	17.1	24.8	7.4	2.4	1.8	0.0	6.2	6.5	32.4	18.9
No	126	108	51.2	68.0	24.7	19.8	2.4	0.0	0.7	10.3	2.5	6.3	13.7	23.9	2.2	1.9	0.0	0.0	5.5	5.6	13.4	12.8
Place of solicitation																						
Public place	238	71	37.1	80.8	13.4	4.5	1.6	1.7	1.8	8.0	2.1	9.0	12.2	15.6	6.3	4.2	0.4	0.0	5.0	6.1	25.9	18.9
Brothel/hotel/ lodge/Dhaba	66	78	52.5	58.1	26.9	14.0	4.0	0.0	0.0	8.6	0.6	7.0	21.8	23.2	4.9	5.3	3.8	0.0	9.8	7.5	27.9	12.2
Home	119	157	30.4	72.8	19.0	18.8	2.6	0.0	0.0	4.3	3.4	5.5	17.4	30.4	6.0	0.5	0.0	0.0	4.1	5.7	27.1	20.7
Heard/seen/read ad	vertisement	or mess	age on co	ndoms ir	the past	six month	S															
No	30	4	23.0	79.1	12.3	0.0	2.7	0.0	0.0	0.0	0.0	31.3	14.2	26.1	2.8	0.0	0.0	0.0	4.9	26.1	25.9	20.9
Yes	394	398	40.9	65.8	18.9	20.3	2.5	0.5	0.9	6.8	2.2	6.7	16.2	24.5	6.0	2.3	1.3	0.0	6.1	6.1	26.7	17.2
Heard/seen/read ad	vertisement	s/messag	ges on ST	l in the p	ast six mo	onths																
No	147	91	33.9	64.2	11.0	24.0	2.5	0.0	0.5	3.4	1.6	5.3	5.6	37.3	8.2	2.3	0.0	0.0	3.9	6.3	29.0	20.9
Yes	277	311	42.7	66.4	22.4	19.0	2.5	0.6	1.0	7.8	2.3	7.4	21.7	20.8	4.5	2.3	1.9	0.0	7.2	6.3	25.4	16.3
*Sub-sample of those	: who have p	artner; N	IA: Not A	vailable																		

75 Repeat surveys to assess changes in behaviour and prevalence of HIV/STIs in populations at risk of HIV

Clients-2: Shimoga Distric

	Z	do. ca	onsistent m use wit sional FS	con- h oc- Ws* re	Consistent ndom use v gular FSW	t vith cond sexu	Consisten dom use v ain femal ual partn	t C vith cc le wit er*	Consisten ondom us h male/hi partner*	t Co se do ijra a	msistent o m use du nal sex wi FSW*	:on- ring E ith HI	ver taken [V/AIDS	an A test A	ctive Syp	hilis	High-ti Syphil	is	ЛН		HSV	5
	R1 F	22	R1	R2	RI R	2 R	1 R	2 R	1 R	2 F	KI I	82 H	5	R2	R1	R2	R1	R2	R1	R2	R1	R2
Age	-		-	-			-															
<20	14	5	69.4	100.0	0.0	22.9	0.0	0.0	0.0	0.0	5.5	0.0	0.0	58.5	0.0	0.0	0.0	0.0	0.0	0.0	4.8	23.1
20-24	88	85	50.8	61.7	9.5 4	42.1	1.2	6.0	1.9	0.0	0.0	6.0	6.4	20.6	0.8	0.0	0.8	0.0	0.0	0.0	11.2	2.4
25-29	103	104	45.9	58.2	7.5	33.9	2.2	8.6	0.0	0.8	4.5	4.7	17.9	35.0	1.0	2.9	0.0	0.0	0.0	2.0	14.4	8.6
30-34	83	63	40.2	71.8	3.3	28.7	0.0	4.6	0.0	4.2	0.9	1.6	13.6	47.5	9.5	0.0	0.9	0.0	6.0	0.0	34.2	4.5
35-39	55	46	22.5	62.7	0.0	49.1	1.5	13.1	0.0	1.6	0.0	9.6	12.1	46.0	2.8	2.4	0.0	2.4	0.0	0.0	38.3	16.8
40-44	37	45	29.1	61.7	5.4 3	30.4	2.1	0.0	0.0	2.3	0.0	2.4	18.2	37.1	2.1	4.8	0.0	0.0	9.7	6.1	17.6	36.5
45+	46	37	13.3	51.3	3.1 2	20.8	0.0	0.0	0.0	2.2	0.0	0.0	9.7	13.1	1.5	0.0	1.5	0.0	8.1	7.0	57.2	42.6
Educational attainme	ent																					
Illiterate	96	92	18.9	63.7	3.8 4	41.5	2.5	6.0	1.5	0.9	0.8	0.0	11.2	26.4	7.6	1.0	0.7	0.0	7.9	1.8	36.6	12.9
1-5	55	27	34.8	65.3	1.9 4	45.7	0.0	2.9	0.0	0.0	2.1	0.0	7.0	26.9	3.3	0.0	0.0	0.0	0.0	0.0	28.5	17.4
6-10	214	202	45.8	59.5	5.4 3	30.0	0.5	5.8	0.0	1.8	2.0	5.0	13.8	37.5	1.8	2.0	0.7	0.6	1.9	2.5	24.3	12.1
11+	62	64	49.1	65.9	9.3 5	37.5	1.7	8.4	0.0	2.6	0.0	10.6	15.2	35.3	0.0	2.1	0.0	0.0	1.3	1.3	10.0	18.4
Current marital statu	S																					
Never married	167	134	56.3	57.5	10.1 3	36.9	2.0	7.4	1.0	1.4	2.8	5.8	8.9	25.1	0.9	1.2	0.9	0.0	0.5	0.9	11.0	4.8
Currently married	251	247	28.2	64.1	2.2 3	33.9	0.6	5.1	0.0	1.7	0.6	2.9	15.1	37.6	4.3	1.9	0.3	0.5	4.6	2.5	34.7	18.2
Other	8	4	0.0	78.9	0.0	53.5	0.0	25.3	0.0	0.0	0.0	51.7	0.0	72.9	11.4	0.0	0.0	0.0	0.0	0.0	30.1	21.1
Usual place of reside	nce																					
Localite	418	361	38.0	62.9	5.1 3	35.2	1.1	5.7	0.4	1.7	1.5	4.6	12.8	35.1	3.2	1.7	0.5	0.3	3.0	1.7	26.0	14.3
Non localite	8	24	66.8	47.7	11.1	33.4	0.0	11.3	0.0	0.0	0.0	0.0	0.0	13.5	0.0	0.0	0.0	0.0	0.0	5.2	11.1	4.6
Currently cohabiting																						
Yes	278	259	29.9	64.1	5.1 3	34.4	1.7	7.1	0.0	1.6	1.0	3.1	15.0	37.4	4.7	1.8	0.8	0.4	4.2	2.4	32.2	18.1
No	148	126	55.3	57.6	5.3	36.5	0.0	3.9	1.1	1.4	2.4	6.9	7.7	26.0	0.0	1.3	0.0	0.0	0.5	1.0	12.7	4.3
Place of solicitation																						
Public place	118	118	29.3	66.7	4.4	43.2	3.3	4.7	0.0	0.9	0.0	2.5	14.7	32.1	2.0	0.8	0.6	0.0	1.8	1.5	21.7	13.2
Brothel/hotel/ lodge/Dhaba	46	45	44.5	84.5	4.5	36.1	0.0	1.9	0.0	10.1	4.7	10.9	15.3	44.9	1.4	0.0	0.0	0.0	0.0	0.0	12.5	15.5
Home	261	87	40.9	53.5	5.6	26.3	0.4	7.6	0.6	0.9	1.5	3.5	11.2	45.2	3.9	0.0	0.6	0.0	4.1	3.3	30.0	9.5
Heard/seen/read adv	ertisement o	or messag	je on conc	loms in th	ne past six i	nonths																
No	27	17	17.7	45.0	2.9 2	20.8	0.0	0.0	0.0	0.0	0.0	0.0	2.9	19.6	2.7	0.0	0.0	0.0	2.9	0.0	16.3	14.8
Yes	399	372	39.9	62.7	5.3	35.7	1.2	6.3	0.4	1.6	1.5	4.5	13.2	34.3	3.1	1.7	0.5	0.3	3.0	2.0	26.3	13.7
Heard/seen/read adv	ertisements/	message	s on STI i	n the past	six month	s																
No	150	75	28.2	49.7	4.4	21.2	1.8	1.3	0.0	0.0	1.8	0.0	5.8	18.1	1.5	1.8	0.0	0.0	3.4	2.3	27.0	13.0
Yes	276	314	44.1	64.9	5.6	38.4	0.7	7.2	0.6	1.9	1.3	5.4	16.2	37.4	4.0	1.6	0.8	0.4	2.8	1.8	25.0	13.9
*Sub-sample of those v	who have par	tner; NA	: Not Ava	ilable																		

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	Z	<u> </u>	Consistent lom use wi casional F9	con- th oc- sWs*	Consis condom u regular 1	tent se with 3SWs*	ondom us main fer sexual par	e with ale vith rtner*	condom u condom u vith male/1 partner	hijra de	ouisisient om use di anal sex w FSW*	vith H	šver taken IV/AIDS	an test A	ctive Sypl	illis	High-tit Syphili	re	ЛН	5	-VSH	5
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	1	51	R2	R1	R2	R1	R2	R1	R2
Age																						
<20	14	ß	55.6	94.0	3.9	0.0	3.8	0.0	2.0	8.1	1.8	16.3	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	6.0
20-24	88	85	51.3	81.7	19.5	16.1	7.1	0.0	14.2	2.5	7.6	5.9	11.7	13.4	4.3	0.0	2.6	0.0	0.8	0.5	10.1	4.7
25-29	103	104	46.8	88.3	28.5	19.2	4.4	0.0	5.8	3.2	4.7	11.1	26.0	21.8	3.2	0.0	3.0	0.0	2.4	4.7	16.4	16.1
30-34	83	63	36.4	82.3	17.5	15.7	3.2	0.0	11.5	3.8	4.6	8.9	13.6	19.4	3.0	3.0	1.2	1.7	3.4	3.1	26.1	20.1
35-39	55	46	30.7	71.1	17.6	20.5	0.5	0.0	4.7	0.7	2.0	13.5	14.1	17.7	5.8	1.8	0.7	0.0	5.4	3.3	45.7	20.6
40-44	37	45	35.1	79.8	25.1	10.8	2.2	0.0	4.3	3.5	12.3	12.6	5.2	20.4	3.5	0.0	0.9	0.0	2.1	2.7	43.9	25.6
45+	46	37	38.7	65.3	34.6	20.5	0.7	0.0	1.0	1.7	19.1	6.7	6.9	15.9	4.4	0.0	0.0	0.0	0.7	0.0	45.0	26.5
Educational attainm	tent																					
Illiterate	96	92	28.9	82.8	10.7	15.7	3.3	0.0	5.9	4.0	5.6	9.8	8.6	14.3	8.2	2.0	4.7	1.1	3.8	5.8	29.8	20.9
1-5	55	27	34.9	64.1	23.3	16.4	0.6	0.0	10.0	3.8	6.1	7.3	13.6	14.4	1.6	0.0	1.6	0.0	1.0	1.4	17.6	26.7
6-10	214	202	44.7	82.0	25.3	16.6	4.0	0.0	5.2	1.8	7.9	9.5	13.1	20.3	2.8	0.6	1.1	0.0	2.0	0.3	26.9	12.4
11+	62	64	47.6	80.4	24.8	19.8	4.4	0.0	15.1	2.9	4.1	11.7	26.5	17.9	3.2	0.0	0.3	0.0	3.1	4.4	23.3	16.3
Current marital stat	us																					
Never married	167	134	54.3	85.2	22.1	17.3	6.8	0.0	9.8	4.4	6.1	8.3	15.9	15.8	4.8	1.1	3.2	0.4	2.9	1.1	13.5	8.9
Currently married	251	247	33.9	78.3	23.1	16.8	1.7	0.0	6.8	2.0	7.5	10.6	14.4	18.8	3.3	0.6	0.8	0.2	2.2	3.2	34.0	20.1
Other	8	4	58.5	30.8	13.7	38.5	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0
Usual place of reside	nce																					
Localite	418	361	42.3	80.1	22.8	17.1	3.8	0.0	8.3	2.8	6.6	9.9	15.1	18.0	3.6	0.8	1.7	0.3	2.1	2.6	25.5	16.4
Non localite	80	24	39.2	90.06	19.4	11.4	0.9	0.0	1.6	0.0	9.3	0.0	12.8	0.0	7.3	0.0	1.7	0.0	6.1	0.0	30.5	23.8
Currently cohabitin,	50																					
Yes	278	259	36.0	78.0	23.4	16.8	4.2	0.0	7.2	2.0	7.1	10.5	14.5	18.7	3.6	0.6	0.9	0.2	2.6	3.2	33.2	20.0
No	148	126	53.6	85.2	20.9	17.4	2.7	0.0	9.1	4.4	6.3	8.3	15.7	15.9	4.3	1.1	3.4	0.4	2.0	1.1	11.8	8.8
Place of solicitation																						
Public place	118	118	38.6	68.3	17.8	5.8	4.1	0.0	7.8	2.6	6.1	11.4	16.5	8.7	5.1	0.6	2.1	0.0	4.3	2.2	26.6	18.3
Brothel/hotel/ lodge/Dhaba	46	45	45.7	95.2	16.3	3.2	3.9	0.0	7.9	1.8	7.0	5.8	11.2	30.0	2.9	0.0	1.6	0.0	2.1	5.1	26.6	19.2
Home	261	87	43.1	87.0	31.4	16.7	3.0	0.0	7.7	2.1	7.4	13.6	13.8	24.6	2.8	1.0	1.0	1.0	0.6	1.5	24.0	14.4
Heard/seen/read adv	vertisemen	nt or mess	age on con	doms in	the past	six month	s															
No	48	11	21.2	35.0	16.0	14.0	2.1	0.0	4.3	0.0	2.7	0.0	2.8	0.0	3.8	0.0	0.0	0.0	4.1	0.0	31.1	8.1
Yes	637	675	43.7	81.0	23.1	17.1	3.8	0.0	8.1	2.8	7.1	10.0	15.8	18.1	3.8	0.8	1.9	0.3	2.3	2.6	25.5	16.6
Heard/seen/read adv	vertisemei	nts/messa	ges on STI	in the p	ast six mc	nths																
No	287	93	38.3	58.5	16.9	4.1	5.2	0.0	4.9	0.0	2.7	9.2	8.8	4.1	2.9	2.0	2.1	0.0	1.9	1.7	24.0	19.1
Yes	398	594	44.8	83.6	26.7	19.0	2.5	0.0	10.0	3.2	9.8	9.9	19.3	20.0	4.5	0.6	1.5	0.3	2.8	2.7	27.3	16.0
*Sub-sample of those	who have	partner; ♪	IA: Not Ava	ulable																		

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	Z	040	onsistent co m use with asional FSW	01- 0c- con s ⁷ s* re	Consistent dom use witl gular FSWs*	Cons condom main sexual I	iistent use with female vartner*	Consis condor with male partne	tent 1 use e/hijra er*	Consistent dom use d anal sex v FSW*	t con- uring	Ever taken IIV/AIDS	t an A test	ctive Syph	ilis	High-tit Syphili	er e	НIV		-ASH	2
	R1	R2	RI R2	2 F	kl R2	R1	R2	R1	R2	R1	R2	R1	R2	R1 F	2	R1	R2	R1	R2	R1	R2
Age																					
<20	8	8	25.0 4	41.8	75.0 50.	6 0.0	100.0	0.0	100.0	0.0	100.0	0.0	47.2	100.0	0.0	100.0	0.0	100.0	0.0	75.0	0.0
20-24	75	73	45.3 2	21.3	54.7 57.	9 14.7	96.5	5.3	88.9	2.7	97.1	25.3	37.0	100.0	0.0	100.0	0.0	96.0	0.0	93.2	0.0
25-29	85	91	43.5 2	5.6	48.2 54.	2 2.4	98.0	4.7	92.9	2.4	100.0	24.7	47.9	100.0	0.0	100.0	6.4	92.9	3.1	74.7	1.8
30-34	57	66	38.6 1	7.4	52.6 68.	4 5.3	94.1	3.5	92.7	0.0	97.6	24.6	54.4	92.6	3.7	92.6	0.0	91.2	0.0	70.4	7.5
35-39	65	58	47.7 1	4.2	49.2 45.	5 4.6	95.9	1.5	94.1	1.5	99.1	16.9	46.3	92.2	0.0	95.3	4.6	93.8	2.8	56.3	12.5
40-44	54	36	29.6 2	:7.5	31.5 55.	7 3.7	100.0	1.9	96.4	0.0	100.0	25.9	45.9	96.2	0.0	96.2	5.1	96.3	0.0	60.4	7.5
45+	81	93	46.9 2	5.2	50.6 60.	3 4.9	91.0	2.5	94.2	1.2	98.9	22.2	42.9	98.7	2.4	100.0	0.7	96.3	0.7	52.6	3.0
Educational attainm	ent																				
Illiterate	170	225	40.0 2	6.5	55.3 61.	1 5.9	96.7	1.2	91.2	1.8	98.9	25.3	54.9	96.3	1.2	97.6	3.8	90.6	2.2	62.8	3.9
1-5	26	17	42.3	8.1	38.5 73.0	5 0.0	90.2	7.7	97.1	0.0	100.0	7.7	47.2	100.0	10.9	100.0	6.9	96.2	0.0	56.0	8.0
6-10	161	117	44.1 1	5.3	44.1 48.4	1 5.0	94.2	5.6	94.4	1.2	97.7	20.5	31.6	98.7	0.0	98.7	0.8	97.5	0.0	75.8	8.2
11+	68	66	44.1 2	3.4	48.5 52.3	3 10.3	94.8	1.5	96.6	1.5	100.0	27.9	35.9	93.8	0.0	95.4	0.0	97.1	0.0	70.8	0.0
Current marital statu	IS																				
Never married	100	126	47.0 2	0.4	59.0 52.0	5 7.0	9.66	6.0	89.8	2.0	98.7	22.0	48.0	100.0	0.0	100.0	0.9	93.0	0.9	76.5	2.9
Currently married	320	284	40.6 2.	3.2	45.6 59.0	5 5.6	93.4	2.5	94.7	1.3	98.7	22.8	43.1	96.1	1.6	97.1	3.4	95.0	1.4	65.6	4.7
Other	5	15	60.0 2	1.6	60.0 44	2 0.0	100.0	0.0	91.3	0.0	100.0	40.0	70.1	100.0	0.0	100.0	0.0	100.0	0.0	100.0	18.2
Usual place of reside	nce																				
Localite	333	395	40.2 2.	2.9	47.4 55.5	4.2	95.5	2.1	93.1	0.6	99.1	23.1	43.7	96.9	1.2	97.5	2.3	94.6	0.8	69.69	5.0
Non localite	91	26	49.5 1	12.5	53.8 67.	9 11.0	94.4	7.7	91.7	4.4	94.1	22.0	67.2	97.8	0.0	98.9	4.9	94.5	4.9	64.8	0.0
Currently cohabiting	50																				
Yes	349	291	41.5 2	23.1	46.4 59.	3 5.7	93.6	2.6	94.8	1.1	98.8	22.3	42.9	96.4	1.6	97.3	3.3	94.0	1.3	65.5	4.6
No	76	134	46.1 2	20.6	60.5 51.	9 6.6	9.66	6.6	89.3	2.6	98.8	25.0	51.0	100.0	0.0	100.0	0.9	97.4	0.9	82.7	4.7
Place of solicitation																					
Public place	407	245	42.8 1	8.1	48.6 57	9 6.1	95.2	2.9	93.4	1.2	98.3	23.1	45.4	97.2	0.4	98.0	1.8	94.6	1.3	69.2	6.0
Brothel/hotel/ lodge/Dhaba	6	68	33.3 3	18.3	44.4 65.	4 0.0	97.6	11.1	94.7	11.1	98.5	11.1	40.4	100.0	2.5	100.0	6.6	100.0	2.6	88.9	0.0
Home	~	78	42.9 2	.4.9	71.4 44.	7 0.0	96.9	14.3	95.3	0.0	100.0	28.6	55.4	85.7	0.6	85.7	2.2	85.7	0.0	14.3	5.2
Heard/seen/read adv	rertisement	or messa	ge on condo.	ms in th	e past six mo	nths															
No	67	118	43.3 3	15.4	40.3 71.0	0 1.5	97.7	0.0	93.3	0.0	100.0	9.0	69.4	93.9	1.2	93.9	5.3	92.5	2.7	66.7	5.5
Yes	358	307	42.2 1	7.3	50.6 51.4	5 6.7	94.6	3.9	93.0	1.7	98.3	25.4	36.2	97.7	1.1	98.6	1.5	95.0	0.6	69.0	4.3
Heard/seen/read adv	rertisement	s/message	s on STI in	the past	six months																
No	37	113	43.2 3	13.6	32.4 64.	7 5.4	97.2	2.7	94.3	0.0	100.0	8.1	69.3	100.0	1.3	100.0	1.7	86.5	1.7	71.4	5.5
Yes	388	312	42.3 1	8.2	50.5 54.	2 5.9	94.9	3.4	92.6	1.5	98.3	24.2	36.8	96.8	1.0	97.6	2.9	95.4	1.0	68.4	4.3
*Sub-sample of those	who have pé	utner; N⁄	A: Not Availa	ıble																	

ssment 78 Integrated Behavioural And Biological Asse

	V-2	R2		NA	NA	NA	NA	NA	NA	NA	
	SH	R1		5.1	14.6	33.1	47.9	70.6	72.4	52.7	
	N	R2		NA	NA	NA	NA	NA	NA	NA	
	IH	R1		4.0	5.0	12.9	16.3	26.1	29.1	18.1	
	-titre iilis	R2		NA	NA	NA	NA	NA	NA	NA	
	High. Sypl	R1		0.0	0.8	0.0	0.0	0.0	3.9	5.9	
	șy philis	\mathbb{R}^2		NA	NA	NA	NA	NA	NA	NA	
	Active S	R1		0.0	0.8	0.9	0.0	2.2	11.2	5.9	
	ken an DS test	\mathbb{R}^2		NA	NA	NA	NA	NA	NA	NA	
	Ever tal HIV/AI	R1		25.2	21.3	22.9	20.7	28.6	27.9	31.1	
rict	ent con- : during X* with N*	R2		NA	NA	NA	NA	NA	NA	NA	
alkot Dist	Consiste dom use anal se FSV	R1		0.0	0.7	2.7	1.4	2.3	0.0	0.0	
its-2: Bage	stent m use le/hijra ner*	R2		NA	NA	NA	NA	NA	NA	NA	
Clier	Consi condo with ma parti	R1		0.0	0.0	0.8	0.0	2.3	0.0	0.0	
	istent use with emale artner*	\mathbb{R}^2		NA	NA	NA	NA	NA	NA	NA	
	Cons condom main f sexual p	R1		9.8	5.8	1.6	3.6	4.8	0.0	0.0	
	istent use with FSWs*	R2		NA	NA	NA	NA	NA	NA	NA	
	Cons condom regular	R1		25.6	27.5	25.2	25.3	24.2	10.3	19.4	
	ent con- with oc- I FSWs*	R2		NA	NA	NA	NA	NA	NA	NA	
	Consist dom use casiona	R1		49.5	44.5	30.5	30.4	27.4	27.6	19.7	
	7	R2		NA	NA	NA	NA	NA	NA	NA	
	4	R1		28	121	113	65	43	27	37	nent
			Age	<20	20-24	25-29	30-34	35-39	40-44	45+	Educational attains

Educational attainm	ent																					
Illiterate	142	NA	29.4	NA	17.5	NA	1.5	NA	1.3	NA	1.5	NA	22.3	NA	2.3	NA	1.5	NA	21.0	NA	47.1	NA
1-5	66	NA	30.2	NA	16.4	NA	1.4	NA	0.0	NA	1.4	NA	20.8	NA	2.8	NA	1.4	NA	13.1	NA	44.3	NA
6-10	146	NA	38.6	NA	28.0	NA	3.9	NA	0.0	NA	1.9	NA	20.4	NA	1.5	NA	0.8	NA	6.8	NA	30.0	NA
11+	80	NA	38.6	NA	36.6	NA	9.1	NA	0.0	NA	0.0	NA	35.1	NA	1.3	NA	0.0	NA	11.4	NA	20.6	NA
Current marital stati	18																					
Never married	130	NA	38.7	NA	26.7	NA	8.3	NA	0.7	NA	6.0	NA	23.7	NA	0.7	NA	0.0	NA	7.6	NA	16.1	NA
Currently married	279	NA	33.5	NA	23.6	NA	1.9	NA	0.4	NA	1.7	NA	20.7	NA	2.3	NA	1.6	NA	12.7	NA	41.3	NA
Other	25	NA	20.1	NA	20.8	NA	0.0	NA	0.0	NA	0.0	NA	57.6	NA	4.5	NA	0.0	NA	52.3	NA	88.7	NA
Usual place of reside	nce																					
Localite	328	NA	28.6	NA	23.3	NA	2.7	NA	0.3	NA	1.8	NA	22.7	NA	1.6	NA	0.6	NA	13.4	NA	37.7	NA
Non localite	106	NA	50.9	NA	27.6	NA	6.8	NA	0.8	NA	0.0	NA	27.3	NA	3.0	NA	2.0	NA	13.5	NA	32.4	NA
Currently cohabiting	50																					
Yes	331	NA	32.6	NA	23.9	NA	4.6	NA	0.3	NA	1.8	NA	21.7	NA	1.9	NA	1.3	NA	13.7	NA	39.8	NA
No	103	NA	39.7	NA	25.9	NA	0.9	NA	0.9	NA	0.0	NA	30.6	NA	2.1	NA	0.0	NA	12.6	NA	25.5	NA
Place of solicitation																						
Public place	53	NA	18.2	NA	23.9	NA	3.7	NA	0.0	NA	0.0	NA	30.4	NA	0.0	NA	0.0	NA	8.5	NA	43.0	NA
Brothel/hotel/ lodge/Dhaba	13	NA	53.6	NA	31.9	NA	8.0	NA	0.0	NA	0.0	NA	22.8	NA	0.0	NA	0.0	NA	23.6	NA	61.2	NA
Home	352	NA	35.2	NA	22.9	NA	3.7	NA	0.5	NA	1.4	NA	22.0	NA	2.4	NA	1.2	NA	13.5	NA	34.9	NA
Heard/seen/read adv	rertisemen	nt or mess	age on con	ndoms in	the past s	six month	s															
No	67	NA	30.5	NA	16.3	NA	1.3	NA	0.0	NA	0.0	NA	13.4	NA	3.4	NA	1.7	NA	12.7	NA	35.7	NA
Yes	367	NA	34.9	NA	25.9	NA	4.1	NA	0.5	NA	1.6	NA	25.7	NA	1.7	NA	0.8	NA	13.5	NA	36.5	NA
Heard/seen/read adv	rertisemen	its/messa	ges on STI	in the p:	ast six mo.	nths																
No	247	NA	36.2	NA	20.4	NA	2.0	NA	0.4	NA	1.5	NA	18.5	NA	2.1	NA	0.9	NA	12.0	NA	36.4	NA
Yes	188	NA	31.7	NA	29.5	NA	5.9	NA	0.5	NA	1.1	NA	30.8	NA	1.7	NA	1.1	NA	15.3	NA	36.4	NA
*Sub-sample of those	who have	partner; N	VA: Not Av.	ailable																		

nce of HIV/STIs in populations at risk of HIV ur and prevale **79** Repeat surveys to assess changes in behav

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