

Supplementary Table I: Overview of the instruments used to estimate the latent variables in the hypothesized model, scale characteristics, items, reliability (Chronbach α), and factor loadings (standardized betas) in a sample of 199 black men who have sex with men in Tshwane, South Africa.

Latent variable	Observed variable	# Items	Items	Cronbach α	Standardized betas
External stigma	Recent social discrimination (past year)	9	Did any of these things happen to you during the past year because you are effeminate: ... verbal insults directed at you	NA ¹	0.577
			... threatened with physical violence		0.808
			... your personal property damaged or destroyed		0.690
			... objects thrown at you		0.832
			... chased or followed		0.846
			... spat upon		0.728
			... punched, hit, kicked, or beaten		0.904
			... assaulted or wounded with a weapon		0.862
			... sexually harassed		0.671
Internalized stigma	Internalized homophobia	10	Sometimes I dislike myself for being a man who has sex with other men.	.724	0.829
			I wish I were only sexually attracted to women.		0.805
			I am glad to be sexually attracted to other men.		
			I have tried to become more sexually attracted to women.		0.724
			I have tried to undergo a religious cleansing (to be reborn) so I can be heterosexual.		0.846
			I am not proud of myself for being sexually attracted to other men.		
			I am comfortable with my sexual attraction to other men.		
			I feel that being attracted to men is a personal shortcoming for me.		
			If someone offered me the chance to be completely heterosexual, I would accept the chance.		
			Whenever I think a lot about having sex with men, I feel critical about myself.		
	Sexual orientation confusion	4	I'm not totally sure what my sexual orientation is.	.891	0.829
			I keep changing my mind about my sexual orientation.		0.805
			I can't decide whether I am bisexual or homosexual.		0.724

			I get very confused when I try to figure out my sexual orientation.		0.846
Mental health	Depression	7	I couldn't seem to experience any positive feeling at all.	.855	
			I found it difficult to work up the initiative to do things.		0.737
			I felt that I had nothing to look forward to.		0.860
			I felt down-hearted and blue.		0.732
			I was unable to become enthusiastic about anything.		0.901
			I felt I wasn't worth much as a person.		
			I felt that life was meaningless.		0.829
	Anxiety	7	I was aware of dryness of my mouth.	.812	0.680
			I experienced breathing difficulty (e.g. excessively rapid breathing, breathlessness in the absence of physical exertion).		0.815
			I experienced trembling (e.g. in the hands).		0.843
			I was worried about situations in which I might panic and make a fool of myself.		
			I felt I was close to panic.		0.785
			I was aware of the action of my heart in the absence of physical exertion (e.g. sense of heart rate increase, heart missing a beat).		0.816
			I felt scared without any good reason.		0.882
Alcohol use	AUDIT-C	3	How often do you have a drink containing alcohol?	.876	0.851
			How many drinks containing alcohol do you have on a typical day when you are drinking?		0.788
			How often do you have six or more drinks on one occasion?		0.925
Information-motivation-behavioral skills model constructs	Attitudes toward condom use	4	Always using condoms during insertive anal sex with a steady partner would be very nice	.879	0.935
			Always using condoms during receptive anal sex with my steady partner would be very nice.		0.923
			Always using condoms during insertive anal sex with a sexual partner other than a steady partner would be very nice.		0.935
			Always using condoms during receptive anal sex with a sexual partner other than a steady partner would be very nice.		0.915
	Condom use self-efficacy	6	How difficult or easy would it be for you to: ... talk about condom use with regular/steady partners?	.761	0.867

			... use condoms all the time with a sexual partner other than steady?		0.888	
			... get tested for HIV?		0.736	
			... ask a partner to have HIV test?		0.701	
			... not have any insertive anal sex without a condom?		0.756	
			... not have any receptive anal sex without a condom?		0.781	
	Perceived social norm	4		Most people who are important to me think I should: ... use condoms during insertive anal sex with my steady partner	.857	0.873
				... use condoms during receptive anal sex with my steady partner.		0.930
				... use condoms during insertive anal sex with a sexual partner other than my steady partner.		0.921
				... use condoms during receptive anal sex with a sexual partner other than my steady partner.		0.926
	Intention to use condoms	3		If I have insertive anal sex, I intend to always use a condom.	.792	0.789
				If I have receptive anal sex, I intend to always use a condom.		0.991
				If I have anal sex, I intend to always talk with sexual partners about safer sex.		0.830
	HIV knowledge	4		As long as both partners wash themselves after sex, it is not necessary to use condoms.	NA ¹	0.926
				Having a shower after sex prevents the spread and infection of HIV, therefore it is not necessary to use condoms.		0.913
				It is easy to get HIV by sharing a meal with someone who is HIV infected.		0.771
				You can tell by looking at someone if they have HIV.		0.714
Sexual risk behavior	Frequency of condomless anal intercourse in the past two months	2	In the past two months, how many times did you penetrate a man without a condom?	NA ¹		
			In the past two months, how many times were you penetrated?			

1. NA = not applicable, count variable