

Supplementary Table II: 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 480 black MSM in Tshwane, South Africa.

| Latent variable | Observed variable | # items | Items | Cronbach α | Standardized betas |
|---------------------|--|---------|--|-------------------|--------------------|
| External stigma | Recent social discrimination (past year) | 10 | How often did any of these things happen to you during the past year because people see you as feminine / because you are a man who has sex with men: ...had verbal insults and curses directed at you? | NA ¹ | 0.596 |
| | | | ...been threatened with physical violence? | | 0.797 |
| | | | ...had your personal possessions damaged or destroyed? | | 0.775 |
| | | | ...had objects thrown at you? | | 0.826 |
| | | | ...been chased or followed? | | 0.791 |
| | | | ...been spat on? | | 0.803 |
| | | | ...been punched, hit, kicked, or beaten? | | 0.795 |
| | | | ...been assaulted or wounded with a weapon? | | 0.801 |
| | | | ...been sexually harassed or abused (but not raped)? | | 0.680 |
| | | | ...been raped? | | 0.537 |
| Internalized stigma | Internalized homophobia | 7 | Sometimes I dislike myself for being a man who has sex with men. | .705 | 0.799 |
| | | | I wish I were only sexually attracted to women. | | 0.902 |
| | | | I have tried to become more sexually attracted to women. | | 0.818 |
| | | | I am ashamed of myself for being sexually attracted to other men. | | 0.846 |
| | | | I am comfortable with my sexual attraction to other men. | | -0.679 |
| | | | I feel that being attracted to men is a personal weakness for me. | | 0.572 |
| | | | If someone offered me the chance to be completely heterosexual, I would accept the chance. | | 0.704 |
| | Sexual orientation confusion | 4 | I am not totally sure what my sexual orientation is. | .909 | 0.806 |
| | | | I keep changing my mind about my sexual orientation. | | 0.897 |
| | | | I can't decide whether I am bisexual, homosexual, or heterosexual. | | 0.906 |
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| | | | I get very confused when I try to figure out my sexual orientation. | | 0.941 |
| Mental health | Depression | 2 | Over the last 2 weeks, how often have you been troubled by having little interest or pleasure in doing things? | .849 | 0.903 |
| | | | Over the last 2 weeks, how often have you been troubled by feeling down, depressed, or hopeless? | | 0.947 |
| | Anxiety | 2 | Have you ever in your life had an anxiety attack — suddenly feeling fear or panic? | NA | |
| | | | Have you had an anxiety attack in the last 4 weeks? | | 0.694 |
| Alcohol use | AUDIT-C | 3 | How often do you have a drink containing alcohol? | .849 | 0.796 |
| | | | How many drinks containing alcohol do you have on a typical day when you are drinking? | | 0.815 |
| | | | How often do you have six or more drinks on one occasion? | | 0.966 |
| Information-motivation-behavioral skills model constructs | Attitudes toward condom use | 4 | Always using condoms during insertive anal sex with a regular partner. | .696 | 0.772 |
| | | | Always using condoms during receptive anal sex with a regular partner. | | 0.728 |
| | | | Always using condoms during insertive anal sex with a sexual partner other than my regular partner. | | 0.839 |
| | | | Always using condoms during receptive anal sex with a sexual partner other than my regular partner. | | 0.800 |
| | Condom use self-efficacy | 6 | How difficult or easy would it be for you to: ... talk about condom use with regular partners? | .716 | 0.784 |
| | | | ... use condoms all the time with a sexual partner other than your regular partner? | | 0.766 |
| | | | ... get tested for HIV? | | 0.373 |
| | | | ... ask a partner to have an HIV test? | | 0.341 |
| | | | ... avoid any insertive anal sex without a condom? | | 0.744 |
| | | | ... avoid any receptive anal sex without a condom? | | 0.803 |

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| | Perceived social norm | 4 | Most people who are important to me think I should: ...use condoms during insertive anal sex with a regular partner. | .943 | 0.884 |
| | | | ...use condoms during receptive anal sex with a regular partner. | | 0.892 |
| | | | ...use condoms during insertive anal sex with a sexual partner other than my regular partner. | | 0.907 |
| | | | ...use condoms during receptive anal sex with a sexual partner other than my regular partner. | | 0.901 |
| | Intention to use condoms | 3 | How likely or unlikely is it that you will: ... always use a condom when you have insertive anal sex? | .875 | 0.688 |
| | | | ... always use a condom when you have receptive anal sex? | | 0.692 |
| | | | ... always talk with sexual partners about safer sex when you have anal sex? | | 0.764 |
| | HIV knowledge | 5 | It is safe to use condoms more than once. | NA ¹ | 0.651 |
| | | | Condoms only need to be used with prostitutes. | | 0.671 |
| | | | As long as both partners wash themselves after sex, it is not necessary to use condoms. | | 0.787 |
| | | | There is a cure for AIDS. | | 0.693 |
| | | | If someone has HIV you can see that straightaway. | | 0.565 |
| | Sexual risk behavior | Frequency of condomless anal intercourse in the past year | 2 | During the past year, how many times did you have anal sex in which you were penetrated by a man without a condom? During the past year, how many times did you penetrate a man without a condom? | NA ¹ |

1. NA = not applicable, count variable