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Self-Reported Penis Size and Experiences with Condoms Among Gay and Bisexual Men

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Abstract

As researchers and community-based providers continue to encourage latex condom use as a chief strategy to prevent HIV transmission among men who have sex with men, research is needed to better explore the intersecting associations among penis size (length and circumference), condom feel, ease of finding condoms, recent experience of condom failure (breakage and slippage), and unprotected anal sex. Data were taken from a 2010 community-based survey of self-identified gay and bisexual men in New York City ($n = 463$). More than half (51.4 %) reported penile length as 6–8 in. long (15–20 cm) and 31.5 % reported penile circumference as 4–6 in. around (10–15 cm). Variation in self-reported penile dimensions was significantly associated with men's attitudes toward the typical/average condom, difficulty finding condoms that fit, and the experience of condom breakage. Men who had engaged in recent unprotected insertive anal intercourse reported significantly higher values for both penile length and circumference, and these men were significantly more likely to report that the average/typical condom was “too tight.” Most men had measured their length (86.2 %) and/or circumference (68.9 %), suggesting that penile measurement might be a common and acceptable practice among gay and bisexual men. As HIV and STI prevention providers continue to serve as leading distributors of free condoms, these findings further highlight the need for condom availability to be in a variety of sizes. Improving condom fit and attitudes toward condoms may also improve condom use and minimize condom slippage and breakage.

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Keywords

Penis size; Penis measurement; Condoms; Gay and bisexual men; Sexual orientation

Introduction

The U.S. Centers for Disease Control and Prevention recommends the male latex condom as the best physical barrier one can use for preventing HIV and STI transmission (CDC, 2010a). In tandem, public health departments and other community-based providers include the distribution of free condoms as part of their comprehensive strategy to prevent the further transmission of HIV and STIs. For example, the New York City (NYC) Department of Health and Mental Hygiene (DOHMH) is the largest distributor of free condoms in the city (Burke et al., 2009, 2011). In 2007, the DOHMH distributed more than 36 million “standard” *Lifestyles*[®] condoms (personal communication with the Condoms and Materials Distribution Unit, NYC DOHMH, 2010). These condoms are 7.07 in. (18.0 cm) long and 2.13 in. (5.4 cm) across. Recognizing the need to offer a variety of condoms, in 2009 the DOHMH expanded their distribution to include seven additional types of male condoms in a limited set of locations. Of the seven additional types of condoms offered, only two (*Durex XXL* and *Durex Enhanced Pleasure*) were tailored to accommodate variation in penile dimensions—*Durex XXL* is a larger sized condom and *Durex Enhanced Pleasure* has a contoured shape for better (more snug) fit.

Men who have sex with men (MSM) remain disproportionately affected by HIV/AIDS. In 2009, MSM accounted for 61% of all new diagnoses of HIV infection, and 75% of all diagnosed HIV infections among males (CDC, 2010b; Prejean et al., 2011). It is no surprise that health and community service providers place substantial emphasis on correct and consistent condom use for MSM. Much of the existing research on MSM’s attitudes toward condoms centers on perceptions that condoms are a barrier to physical intimacy and pleasure (Bauermeister, Carballo-Diequez, Ventuneac, & Dolezal, 2009; Golub, Starks, Payton, & Parsons, 2011). Substantially less research has focused on perceptions of condom fit and feel, particularly among MSM. Researchers have argued that penis size can impact correct and consistent condom use and HIV/STI transmission (Reece et al., 2007, 2008). Herbenick and Reece (2006) have highlighted how there are only a limited range of condom sizes available, with a majority of manufacturers producing condoms to fit an “average” penis. Others suggested that experiences with the fit and feel of condoms (Crosby, Yarber, Sanders, & Graham, 2005; Grady, Klepinger, Billy, & Tanfer, 1993; Jadack, Fresia, Rompalo, & Zenilman, 1997) and condom breakage and slippage (Crosby et al., 2007, 2008; Herbenick & Reece, 2006; Rosenberg & Waugh, 1997) reduce consistent use by some men. As a result, this has been hypothesized to inadvertently lead to greater incidence of HIV and STIs (Herbenick & Reece, 2006; Reece et al., 2007, 2008).

There is limited research on condom fit and feel among MSM. Reece, Briggs, Dodge, Herbenick, and Glover (2010) reported on a sample of 215 HIV positive men (59 % were gay and 22 % bisexual) in which participants reported specific characteristics of condoms that challenged fit and feel, including 21 % endorsing that condoms felt too tight, 16 % that

condoms were too short, and 19 % indicating that it was difficult to find size appropriate condoms. A second study of 178 African American MSM found 21% reported that condoms felt too tight, 18% reported that condoms felt too short, 10% reported that condoms felt too loose, and 7% reported that condoms felt too long (Reece et al., 2007). This study found that those who experienced slippage and/or breakage were more likely to indicate that condoms feel too tight.

Although Reece et al. provided insight into the experiences of African American MSM and HIV-positive men, such information among MSM more generally is unavailable. Furthermore, it is unclear how negative experiences with, and perceptions about, condoms are associated with condom use behavior among MSM. Finally, although there is some information on the attitudes of MSM toward condoms, there is limited knowledge as to how these factors are related directly to men's own penile dimensions (length and circumference).

Addressing these limitations, the present study reports on 463 gay and bisexual men. We compared responses on questions of penis size (length and circumference), condom feel, ease of finding condoms, and recent condom failure (breakage and slippage). Next, we compared men who had never measured their penile length and/or circumference with those who had measured on condom feel, ease of finding condoms, and recent condom failure (breakage and slippage). Finally, we compared men who had engaged in recent (<3months) unprotected insertive anal inter-course with a casual male partner (to those who had not) on penile length, circumference, condom feel, ease of finding condoms, and recent condom failure (breakage and slippage). Analyses were focused to the participant's use of condoms on his own penis—we were unable to investigate condom use for receptive anal sex because we did not have data on the dimensions of participants' partner's penis.

Method

Participants

In spring 2010, a cross-sectional, street-intercept method (Miller, Wilder, Stillman, & Becker, 1997) was adapted to survey 463 gay and bisexual men at a series of gay, lesbian, and bisexual (GLB) community events in NYC through the Sex and Love Study v8.0 (Grov, Parsons, & Bimbi, 2010; Pantalone, Bimbi, Holder, Golub, & Parsons, 2010). This approach to collecting data has been used in numerous studies (Carey, Braaten, Jaworski, Durant, & Forsyth, 1999; Chen, Kodagoda, Lawrence, & Kerndt, 2002; Kalichman & Simbaya, 2004; Rotheram-Borus et al., 2001), including those focused on GLB persons (Benotsch, Kalichman, & Cage, 2002; Kalichman et al., 2001), and has been shown to provide data that are comparable to those obtained from other more methodologically rigorous approaches (Halkitis & Parsons, 2002), such as time-space sampling.

At each community event, the research team hosted a booth, and a member of the research team actively approached each person who passed the booth. The response rate was high, with 76 % of those approached consenting. The self-reported paper-and-pencil survey required 15–20min to complete, and participants were handed the survey on a clipboard so that they could step away from others to complete the questionnaire privately. Adjacent to

our booth, and cordoned off by a curtain, we provided participants a separate seating area, including spaced apart chairs, such that participants could complete the survey in added privacy. When handing participants surveys, project staff emphasized the importance of confidentiality and instructed participants to keep their responses private. Once completed, participants deposited their own completed survey into a secure box at the booth. As an incentive, participants were given a voucher for free admission to a movie. Survey data were entered into an SPSS database and checked/verified by project staff for accuracy. All procedures were reviewed and approved by the sponsoring center's Institutional Review Board.

Measures

Participant Characteristics—Participants reported their age (in years), sexual identity, education, HIV status, STI history, and race and ethnicity. Response options are shown in Table 1.

Penis Length and Circumference—Men were asked to indicate, “When erect (hard), what is the length of your penis?” and presented with six ordinal categories that included lengths in inches and centimeters. To facilitate precision, surveys included a drawing depicting an erect penis with an adjacent ruler demonstrating the measurement starting (i.e., penis base) and end point (i.e., tip of the glans penis). Penis circumference was assessed by asking men, “When erect (hard), what is the girth (circumference around) of your penis?” Men were presented with five ordinal categories that included circumference in inches and centimeters. Similar to length, men were shown a drawing depicting an erect penis with a measuring tape circumnavigating the penis shaft. Men were also given the option to indicate if they had never measured their penile length and/or circumference. Response options and the images are shown in Table 1.

Condom Feel and Ease of Finding Fitting Condoms—Similar to others' studies (Reece et al., 2007, 2010; Reece, Herbenick, & Dodge, 2009), men were presented with three semantic differential scales. First, they were asked, “For my penis length, the average/typical condom is,” with response ranging from “1-Too Short” to “5-Too Long.” Next, men were asked, “For my penis girth, the average/typical condom is,” with response choices ranging from “1-Too Tight” to “5-Too Loose.” Finally, men were asked, “Finding condoms that fit my penis is,” with choices ranging from “1-Easy” to “5-Difficult.”

Recent Condom Breakage, Slippage, and Condom Use—Similar to others' studies (Herbenick & Reece, 2006; Reece et al., 2008), men were asked, “In the last 3 months, how often have you experienced condom breakage (on your penis),” and “In the last 3 months, how often have you experienced condom slippage (on your penis).” Responses ranged from “0-Never Happens” to “5-Always Happens.” Men were also given the option to indicate that they had not worn a condom on their penis in the last 3 months. Finally, men indicated if they had engaged in unprotected insertive anal intercourse (UIAI) with a casual male partner in the last 3 months. Responses were coded 0= no, 1= yes.

Analytic Plan

When expected cell counts permitted, we used Chi-square. In addition, we used Goodman and Kruskal's Gamma and Spearman's rho rank correlation coefficient. Both measures are ideal for ordinal variables, providing indices for strength and direction of an association (Healey, 2009). The magnitude for Spearman's rho is interpreted similarly to a Pearson's r correlation coefficient, and Gamma can be conceptually interpreted as indicating proportional reduction in prediction error (i.e., percent of variation explained when using one variable to "predict" the other) (Kviz, 1981).

Results

Demographic Characteristics

Table 1 shows the characteristics of the sample. Ages ranged from 18 to 83years ($M=42.0$, $SD=11.88$), and 39% were men of color. Most men (92.9%) self-identified as gay and 4.5% as bisexual. All men reported sex with other men. Most participants (74.5 %) were HIV negative, 19.9 % were HIV positive, and 5.6% failed to report or were untested. The majority (63%) of men had contracted at least one STI during their life time and 46% were in a relationship with another man lasting 3 months or longer.

Penis Size, Condom Feel, and Condom Failure

A majority of men (51.4 %) reported their erect penis length as being between 6 and 8 in. long (15–20 cm). Mode response for penis circumference was 4–6 in. around (10–15cm) (31.5%). A vast majority of men (71.7%) reported that the "average/typical" condom was "just right" for their penis length and most (61.3%) found it "just right" for their circumference. Nevertheless, only 38.4% of men reported that finding condoms to fit their penis was "easy." Among the 322 men who reported using condoms on their own penis, 31.7% reported condom breakage, and 42.2% reported condom slippage in the last 3months (see Table 1).

Associations between Penis Size, Condom Fit, and Condom Failure

Table 2 presents a matrix of associations between all measures of penis size, condom feel, ease of finding condoms, and experience of condom failure (breakage and slippage). In these analyses, men who reported that they had never measured themselves were not included. Penis length was positively associated with penis circumference, difficulty finding condoms that fit, and condom breakage. Both penis length and circumference were inversely associated with finding the average condom to be "too long" and "too loose." There was a positive association between difficulty finding condoms that fit and condom breakage and slippage. Interpreting Gamma, 26% of the variation in condom breakage was explained by men's rating on the ease/difficulty of finding condoms that fit. Finally, there was a significant positive association between condom breakage and condom slippage (see Table 2 for all values).

Associations between Penis Measurement Experience, Condom Feel, and Condom Failure

Table 3 reports comparisons between men who had previously measured their length and/or circumference to those who had not. Having measured one's length (or not) was not associated with ratings on the average condom's length, ease/difficulty in finding condoms that fit, recent condom breakage, recent condom slippage, or UIAI. In contrast, having measured one's circumference was related to several variables. Men who had measured their circumference were more likely to report the average/typical condom as being too tight. Men who had measured their circumference also reported more difficulty in finding condoms that fit, and were more likely to report recent condom breakage and condom slippage. Whether men had measured their circumference (or not) was unrelated to UIAI (see Table 3 for all values).

Recent Unprotected Insertive Anal Intercourse with a Casual Male Partner

Table 4 reports comparisons between men who had engaged in recent UIAI with a casual male partner (21.6 %, $n = 100$) and those who had not. Those who had engaged in recent UIAI reported significantly higher values for both penile length and circumference. Similarly, those who had engaged in UIAI were more likely to report that the average condom was "too tight." There was a marginally significant ($p < .10$) positive association between UIAI and condom breakage. UIAI was not associated with ratings on the average condom's length, ease of finding condoms that fit or recent experienced condom slippage.

Finally, we entered items from Table 4 that were significant at $p < .10$ into a logistic regression to identify factors associated with UIAI (1 = yes, 0 = no). When controlling for other effects, penile circumference was associated with ascending odds ratios for UIAI ($\text{AOR}_{\text{Circumference } 2-4 \text{ in.}} = 1.71$, $\text{CI}_{95\%} = 1.11-1.32$; $\text{AOR}_{\text{Circumference } 4-6 \text{ in.}} = 2.92$, $\text{CI}_{95\%} = 1.11-2.64$; $\text{AOR}_{\text{Circumference } 6-8 \text{ in.}} = 4.99$, $\text{CI}_{95\%} = 1.35-18.45$; $\text{AOR}_{\text{Circumference } 8+ \text{ in.}} = 8.53$, $\text{CI}_{95\%} = 1.49-48.75$). Other variables were not significant in the model.

Discussion

Although most men indicated their penis length was between 6 and 8 in. long (15–20 cm), there was a lot of variation self-reported length and circumference. This variation was significantly associated with men's attitudes toward the typical/average condom, difficulty finding condoms that fit, and the experience of condom breakage, which is consistent with prior research (Herbenick & Reece, 2006; Reece et al., 2009). Men who had engaged in recent UIAI reported significantly higher values for both penile length and circumference—and these men were significantly more likely to report that the average/typical condom was "too tight."

The extent to which men reported difficult experiences with condoms was similar to those identified by others (Reece et al., 2007, 2010) and, collectively, these findings provide further evidence of the large proportion of gay, bisexual, and other MSM who report problems with condom fit. As researchers and health providers continue to encourage condom use as a chief strategy to prevent HIV transmission among MSM, these results highlight the need to better explore the intersecting roles among penis size, condom feel,

ease of finding comfortably fitting condoms, the experience of condom failure, and unprotected anal sex.

We identified a significant association between prior experience measuring oneself and a variety of outcomes. Although prior experience with measuring length was largely unrelated to other variables, prior experience with measuring circumference was associated with multiple outcomes. In all, it seemed men who had never measured their circumference fared better—they were less likely to experience condom breakage or condom slippage, and indicated it was easier to find condoms that fit. This is not to suggest that measuring one's penile circumference somehow leads to negative outcomes. Instead, perhaps men who had difficulty using condoms felt it necessary to measure their own circumference in order to “diagnose” the problem.

Limitations

Though these findings are compelling, there are several limitations to consider. These data do not generalize to all gay and bisexual men, as this sample was limited to those who attended large-scale GLB events in NYC. As our analyses drew from cross-sectional data, causality should not be inferred nor do these analyses rule out the potential for confounding effects from other variables not assessed. Our sampling approach, however, may improve ecological validity for the types of individuals that attend large scale GLB events, and comprise a considerable (and accessible) portion of the gay, bisexual and MSM communities in NYC.

Our survey included a broad array of demographic and sexual health questions; however, it has its limitations. Consistent with the brief street-intercept survey method (Miller et al., 1997), many of the questions were quantitative and close-ended. For example, we did not gather detailed data on HIV or STI testing behavior. Among MSM, HIV is transmitted predominately via anal sex with male partners (CDC, 2008, 2010c). As such, our focus was on anal intercourse between men; we did not collect data with regard to female partners. In addition, some questions had less than ideal wording—condom slippage and condom breakage data might have been more useful were we to gather frequency responses. And, although efforts were taken to ensure confidentiality, there was potential for socially desirable responses in the reporting of sensitive information.

Given the wide availability and distribution of “standard” condoms in NYC, our analyses asked participants to rate the “average/typical” condom. NYC MSM encounter such “standard” condoms at a variety of gay bars/clubs, bookstores, adult video stores, bathhouses, sex clubs, private sex parties, and at large scale GLB events. These are also the type of condom predominantly distributed by community service organizations and care providers. Further, the NYC DOHMH also advertises its NYC-branded condom on billboards across the city, on radio, and TV. Our focus on the “average/typical” condom enabled us to understand how MSM view these condoms; nevertheless, we recognize participants' own interpretation of this wording may not be universal nor does this measure capture the actual condoms participants may have used. Further, instead of men reflecting on condom use over a 3-month period, another approach to collecting data could be to use event-specific measures. Such alternate approaches carry inherent strengths and limitations.

Our research questions focused on condom size as it related to length/width and slippage/breakage. Other factors to consider include condom texture, shape, lubrication, and flavor.

Researchers have noted that gay and bisexual culture is filled with imagery emphasizing the size of one's genitalia (Bergling, 2007; Drummond & Filiault, 2007; Grov et al., 2010; Moskowitz & Hart, 2011). Many men-seeking-men websites (the modal way in which gay and bisexual men find sex partners in the U.S.) (Chiasson et al., 2006) have incorporated penile dimensions as a prominent feature in members' profiles (adjacent to characteristics like height, weight, race, and sexual position). Users can post and search for nude photos and websites often allow users to restrict their search based on penis sizes. Taken together, we believe an emphasis on penile dimensions is ingrained into many facets of gay culture and there are norms prompting gay and bisexual men to know their own dimensions. In support of this, we found that a majority of participants had experience measuring themselves and felt comfortable reporting these dimensions on our survey. Further, results from our study were similar to another in which gay men measured their partners and found penises to be an average length of 6.0 in. (15.3 cm) and average circumference of 4.9 in. (12.5 cm) (Harding & Golombok, 2002). Notably, Harding and Golombok followed up with participants 3 months later and found similar values for length (15.2 cm) and circumferences (12.6 cm). They found no association between measurement discrepancies and age, social class, education, ethnicity, or employment status. Similarly, Reece and Herbenick (personal communication, 2011), in their studies on penis size have asked participants to measure themselves using a Fit Kit and separately with a ruler. They too found a strong correlation between reports (~.80).

That being said, there are several noteworthy limitations in how we collected these data. For example, some research on penis size among gay and bisexual men used normative ratings (e.g., "above average," "below average") (e.g., Grov et al., 2010), and we believe that our use of a standard metric (inches and cm) was an improvement. Nevertheless, we could have allowed men to write in the actual length and circumference (rather than selecting from categories), but this may have resulted in additional missing and unusable data. Response options in our survey were in 2-in. increments (e.g., 4–6 in., 6–8 in.); however, future research might consider a finer array of categories (e.g., 1 in. increments). Yet, our use of a wider increment might have better accommodated measurement error (e.g., someone who mismeasured himself at 5.5 in, when he was actually 4.9 in, would have been captured in the same category: "4–6 in."). In order to improve the accuracy of self-reported penile dimensions, our survey included two drawings depicting erect penises and adjacent rulers indicating measurement starting and endpoints. Nevertheless, there was no guarantee that the drawings we showed men reflected how they actually measured themselves. We also did not collect data on amount of time since most recent measurements. Given that our study was conducted at large scale community events, it was not feasible for participants to measure themselves, or the research team to perform measurements on site (which, in and of itself, could impact participation rates). Taken together, future researchers must weigh the costs and benefits of different data collection strategies and know that no one approach may result in "best" data.

Conclusion

These limitations notwithstanding, this study provided additional insight into MSM's penis sizes as they relate to attitudes and experiences with condoms, an area with limited research. As HIV and STI prevention providers continue to serve as leading distributors of free condoms, these findings further highlight the need for condom availability to be in a variety of sizes—a “one size fits all” approach to condom distribution may not meet the needs of many MSM who fall outside the range of the “average” condom. Most men had measured both their length and circumference, suggesting that measuring oneself might be a common and acceptable practice—and this may be an opportunity for providers to initiate discussions with MSM about the match between condom size and penile dimensions.

In recent years, condom manufactures have responded to increased demand for product diversity by introducing an expanded range of condom sizes, shapes, colors, flavors, and textures. Some HIV prevention providers have begun to distribute a wider array of products, though often in limited supply. Given our current findings, we recommend HIV prevention providers and MSM themselves become more familiar with the range of new products that exist. By improving condom fit and attitudes toward condoms, we may effectively improve condom use while minimizing condom slippage and breakage.

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Table 1Sample characteristics, penis size, condom feel, and condom failure $N = 463$

	<i>n</i>	%		<i>n</i>	%
Sexual identity			Erect penis length		
Gay	430	92.9	Less than 2 in. long (<4.5 cm)	0	0
Bisexual	21	4.5	2–4 in. long (4.5–10 cm)	8	1.7
“Other” reports sex with men	11	2.4	4–6 in. long (10–15 cm)	91	19.7
Race and ethnicity			6–8 in. long (15–20 cm)	238	51.4
Black	70	15.1	8–10 in. long (20–25 cm)	55	11.9
White	283	61.1	10+ in. long (25 cm+)	7	1.5
Latino	61	13.2	Never measured the length	29	6.3
Asian/Pacific Islander	25	5.4	Erect penis girth (circumference around)		
Other	22	4.8	<2 in. around (<4.5 cm)	6	1.3
Education			2–4 in. around (4.5–10 cm).	122	26.3
Less than high school	23	5.0	4–6 in. around (10–15 cm)	146	31.5
Some college	85	18.4	6–8 in. around (15–20 cm)	37	8.0
College degree	183	39.5	8+ in. around (20 cm+)	8	1.7
Graduate school	162	35.0	Never measured the girth	106	22.9
Type of area where raised			For my penis length, the average condom is		
Urban	234	50.5	1 Too short	26	5.6
Suburban	167	36.1	2	46	9.9
Rural	58	12.5	3 Just right	332	71.7
Currently has health insurance			4	27	5.8
No	49	10.6	5 Too long	4	0.9
Yes	394	85.1	For my penis girth, the average condom is		
In a relationship for at least 3 months	211	45.6	1 Too tight	58	12.5
Employment status			2	64	13.8
Full time	329	71.1	3 Just right	284	61.3
Part time	40	8.6	4	24	5.2
Not working	38	8.2	5 Too loose	3	0.6
Student not working	15	3.2	Finding condoms that fit my penis is

	<i>n</i>	%		<i>n</i>	%
Retired	23	5.0	1 Easy	178	38.4
On disability/SSI	13	2.8	2	67	14.5
Sexually transmitted infections (ever in life)			3	129	27.9
Any STI	291	62.9	4	47	10.2
Anal/genital warts (HPV)	83	17.9	5 Difficult	10	2.2
Anal/genital herpes (HSV2)	37	8.0	Experienced condom breakage (on your penis), <3 months ^a		
Crabs, scabies, pubic lice	219	47.3	0 Never happens	220	68.3
Gonorrhea/Chlamydia/other urinary tract infection	131	28.3	1	74	23.0
Hepatitis B (HBV)	56	12.1	2	19	5.9
Hepatitis C (HCV)	18	3.9	3	8	2.5
Syphilis	57	12.3	4 Always happens	1	0.3
HIV status			Experienced condom slippage (on your penis), <3 months ^a		
HIV positive	92	19.9	0 Never happens	185	57.8
HIV negative	345	74.5	1	95	29.7
Unknown (refused, never tested)	26	5.6	2	30	9.4
UAI with a casual male partner, <3 months	100	21.6	3	6	1.9
			4 Always happens	4	1.3

Note some variables have missing data

UAI unprotected insertive anal intercourse

^a Percentages are nested among men who used condoms on their penis in the last 3 months, *n* = 322

Table 2

Correlations among penis size and condom fit and feel

1			2			3			4			5			6		
Erect penis length ^a			Erect penis girth ^b			For my penis length, the average condom is (too short... too long, range 1-5)			For my penis girth, the average condom is (too tight... too loose, range 1-5)			Finding condoms that fit my penis is (easy... difficult, range 1-5)			In the last 3 months how often have you experienced condom breakage on your penis (never ... always, range 0-4) ^c		
<i>n</i>	<i>G</i>	<i>r_s</i>	<i>n</i>	<i>G</i>	<i>r_s</i>	<i>n</i>	<i>G</i>	<i>r_s</i>	<i>n</i>	<i>G</i>	<i>r_s</i>	<i>n</i>	<i>G</i>	<i>r_s</i>	<i>n</i>	<i>G</i>	<i>r_s</i>
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	316	0.53 ***	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	394	-0.52 ***	314	-0.39 ***	-0.23 ***	—	—	—	—	—	—	—	—	—	—	—	—
4	392	-0.45 ***	313	-0.50 ***	-0.35 ***	433	0.74 ***	0.53 ***	428	-0.14	-0.10 *	—	—	—	—	—	—
5	391	0.15 *	311	0.06	0.05	430	-0.13	-0.09	428	-0.14	-0.10 *	—	—	—	—	—	—
6	292	0.25 **	237	0.12	0.07	321	-0.04	-0.02	319	-0.05	-0.03	319	0.26 ***	0.17 **	—	—	—
7	290	-0.002	237	-0.06	-0.04	319	-0.07	-0.03	318	0.11	0.07	317	0.21 *	0.15 *	311	0.64 ***	0.43 ***

G Goodman and Kruskal's gamma, *r_s* Spearman's rho (rank correlation coefficient)

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^a Among men who measured their length (*n*=399)
^b Among men who measured their girth (*n*=319)
^c Among men who used condoms on their penis (*n*=322)
^{*} *p*<.05,
^{**} *p*<.01,
^{***} *p*<.001

Table 3

Associations between penis measurement experience and condom fit and feel

	Previously measured own penis length?						Previously measured own penis girth?					
	No	%	Yes	n	%	r_s	No	%	Yes	n	%	r_s
For my penis length, the average condom is												
1 Too short	2	0.5	23	5.4	–	–0.06	6	5.7	17	5.4	–	–0.03
2	1	3.4	43	10.9			7	6.7	37	11.8		
3 Just right	25	86.2	298	75.6			87	82.9	234	74.5		
4	1	3.4	26	6.6			5	4.8	22	7.0		
5 Too long	0	0.0	4	1.0			0	0.0	4	1.3		
For my penis girth, the average condom is												
1 Too tight	2	6.9	55	14.0	–	–0.30 [†]	8	7.6	47	15.0	–	–0.23 [*]
2	1	3.4	61	15.6			11	10.5	52	16.6		
3 Just Right	26	89.7	249	63.5			81	77.1	192	61.3		
4	0	0	24	6.1			4	3.8	20	6.4		
5 Too loose	0	0	3	0.8			1	1.0	2	0.6		
Finding condoms that fit my penis is												
1 Easy	14	48.3	160	40.9	–	0.19	57	53.8	118	37.9	–	0.27 ^{***}
2	5	17.2	60	15.3			17	16.0	48	15.4		
3	9	31.0	115	29.4			23	21.7	99	31.8		
4	1	3.4	46	11.8			7	6.6	39	12.5		
5 Difficult	0	0	10	2.6			2	1.9	7	2.3		
Condom breakage (on your penis) < 3 months ^a												
Has not happened	15	75.0	198	67.8	0.45	0.18	58	79.5	155	65.4	5.13 [*]	0.34 ^{**}
Has happened	5	25.0	94	32.2			15	20.5	82	34.6		
Condom slippage (on your penis) < 3 months ^a												
Has not happened	15	71.4	164	56.6	1.77	0.32	50	68.5	130	54.9	4.26 [*]	0.28 [*]
Has happened	6	28.6	126	43.4			23	31.5	107	45.1		
Has used condoms on own penis, < 3 months												

	Previously measured own penis length?						Previously measured own penis girth?					
	No			Yes			No			Yes		
	n	%		n	%		n	%		n	%	
No	9	31.0		107	27.4	0.18	34	32.4		80	25.6	1.80
Yes	20	69.0		284	72.6		71	67.6		232	74.4	
Unprotected anal insertive sex with a casual partner, <3 months												
No	17	77.3		258	75.7	0.03	72	80.0		199	73.4	1.56
Yes	5	22.7		83	24.3		18	20.0		72	26.6	

– χ^2 cannot be calculated, expected counts fall below 5 in one or more cell

G Goodman and Kruskal's gamma, r_s Spearman's rho (rank correlation coefficient)

^a Note: $n = 322$ used condoms on their penis in the last 3 months

[†] $p = .059$,
^{*} $p < .05$,
^{**} $p < .01$,
^{***} $p < .001$

Associations between unprotected insertive anal intercourse, penile dimensions, and condom fit and feel

Table 4

Unprotected insertive anal intercourse with a casual male partner, last 3 months						
	No		Yes		χ^2	r_s
	n	%	n	%		
Erect penis length						
2–6 in. long (4.5–15 cm)	67	26.0	11	13.3	7.07*	0.14**
6–8 in. long (15–20 cm)	155	60.1	54	65.1		
8 in. or more (20 cm+)	36	14.0	18	21.7		
Erect penis girth (circumference around)						
<4 in. around (<10 cm)	84	42.2	22	30.6	9.46**	0.16**
4–6 in. around (10–15 cm)	92	46.2	31	43.1		
6 in. or more around (15 cm+)	23	11.6	19	26.4		
For my penis length, the average condom is						
1 Too short	15	5.4	7	7.4	–	–0.07
2	30	10.9	14	14.9		
3 Just right	209	75.7	67	71.3		
4	19	6.9	5	5.3		
5 Too long	3	1.1	1	1.1		
For my penis girth, the average condom is						
1 Too tight	30	10.9	21	22.6	–	–0.25*
2	47	17.1	14	15.1		
3 Just Right	178	64.7	55	59.1		
4	17	6.2	3	3.2		
5 Too loose	3	1.1	0	0.0		
Finding condoms that fit my penis is						
1 Easy	117	43.0	37	38.9	–	0.06
2	47	17.3	11	11.6		
3	74	27.2	34	35.8		
4	30	11.0	8	8.4		
5 Difficult	4	1.5	5	5.3		

Unprotected insertive anal intercourse with a casual male partner, last 3 months									
	No		Yes		χ^2		G	r_s	
	n	%	n	%	n	%			
Experienced condom breakage (on your penis) in the last 3 months ^a									
Has not happened	143	71.5	47	59.5	3.76 [†]	0.26 [†]		0.12 [*]	
Has happened	57	28.5	32	40.5					
Experienced condom slippage (on your penis) in the last 3 months ^a									
Has not happened	119	59.2	38	49.4	2.20	0.20		0.09	
Has happened	82	40.8	39	50.6					

– χ^2 cannot be calculated, expected counts fall below 5 in one or more cells
 G Goodman and Kruskal's gamma, r_s Spearman's rho (rank correlation coefficient)

^a Note: $n = 322$ used condoms on their penis in the last 3 months

[†] $p < .10$,
^{*} $p < .05$,
^{**} $p < .01$