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Let's Talk!, A South African Worksite-Based HIV Prevention Parenting Program

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Abstract

Purpose—South African adolescents have high HIV risk, yet few prevention interventions are effective. Parents play a pivotal role in youths' healthy sexual development and may be at-risk themselves. We tested whether *Let's Talk!*, a worksite-based parenting program, improves parent-child communication about HIV and sexual health, and parent condom use self-efficacy and behavior.

Methods—We culturally adapted *Let's Talk!* in two languages, drawing on formative research and community stakeholder input. We then conducted a small randomized test at a large public worksite in Cape Town. The intervention consisted of five weekly two-hour group sessions for parents of youth aged 11–15. Sixty-six parents [64% female] and their 64 adolescents [41% female] completed surveys before and 1–2 weeks post-intervention; surveys assessed comfort with talking about sex, communication about 16 HIV- and sex-related topics, and parents' condom use self-efficacy and behavior. Thirty-four Black-African (Xhosa-language) and 32 Coloured (mixed-race; Afrikaans-language) parent-child dyads participated. Parents were randomized to intervention (n=34) and control (n=32) groups; randomization was stratified by language.

Results—Multivariate regressions indicated that the intervention significantly increased parents' comfort with talking to their adolescent about sex, b(SE)=0.98(0.39), p=0.02, and the number of sex- and HIV-related topics discussed with their adolescent, b(SE)=3.26(1.12), p=0.005. Compared to control parents, intervention parents were more likely to discuss new sex- and HIV-related topics not discussed before the intervention, b(SE)=2.85(0.80), p<.001. The intervention significantly increased parents' self-efficacy for condom use, b(SE)=0.60(0.21), p=0.007.

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Implications and Contribution: South African adolescents have high HIV risk, yet few interventions have been effective. We found that *Let's Talk!*, a culturally tailored worksite-based HIV prevention parenting program, increased parents' communication with their child about sex and HIV when tested in a large municipal South African worksite – a critical first step in preventing youths' risk behavior.

Some of these data were presented at an oral poster discussion session at the XIX International AIDS Conference, July 2012, Washington DC.

Conclusions—*Let's Talk!* holds promise for improving parent-child communication, a critical first step in preventing HIV among youth.

Keywords

South Africa; HIV; adolescents; parents; communication

Introduction

HIV prevalence in South Africa is among the highest in the world, with young people especially affected. About 17% of 15–49-year-olds in South Africa are living with HIV,¹ with significant disparities between races. Rates are highest among Black Africans (14% overall prevalence, 33% antenatal prevalence) compared with those who are Coloured (i.e., mixed race; 2% overall prevalence, 7% antenatal prevalence) and White (<1% overall prevalence, 3% antenatal prevalence).^{2,3} HIV prevalence is relatively low among 10–14-year-olds, but increases sharply among older youth and young adults, particularly females.⁴ On average, South African adolescents initiate sexual intercourse at age 16.7 years; less than 5% have had sex before age 15.⁵

HIV prevention interventions for young adolescents could help teach safer sexual habits prior to sexual debut. However, many efforts to reduce HIV among South African youth—via national campaigns and school education—have had limited success.⁶–⁸ In South Africa, only one middle school intervention showed effects on reducing unprotected vaginal intercourse 12-months post-intervention in a randomized controlled trial.⁹

Parents can play a pivotal role in promoting adolescents' sexual health and reducing risk behaviors; specifically, they can engage in ongoing communication about sex, which has been associated with lower sexual risk in some sub-Saharan African studies.^{10–12} However, efforts to prevent HIV among youth in South Africa and globally generally have not included parents,¹³ and many parents in South Africa avoid addressing sexual issues,^{11,14} especially condom use.^{11,15} When communication occurs, it is commonly perceived to be prescriptive and judgmental.¹¹ One community-based parenting intervention in South Africa (CHAMP, the Collaborative HIV Prevention and Adolescent Mental Health Program), led to improvements in parent-reported frequency and comfort in discussing HIV and sex with adolescents.¹⁶ Such work shows promise in involving parents in prevention efforts.

Worksites are a promising yet untested setting in which to develop HIV prevention parenting programs. School-based interventions do not reach parents or truant adolescents (who may be most at-risk); and community interventions may not readily reach employed parents, who may have challenges with transport, scheduling, and childcare. Worksite programs overcome common challenges for reaching and engaging parents, who must make a special effort to attend programs in community settings. Moreover, in South Africa, the Department of Labour recommends that all worksites provide educational HIV programs for employees–and many employers, including almost all large worksites, already provide such programs.^{17,18} An additional motivation for employers to implement prevention programs is that workers with HIV have decreased productivity, and increased absenteeism, medical costs, and replacement costs.^{19,20} Despite the potential positive impact, worksite programs have not been rigorously evaluated,¹⁷ and no such programs have targeted parents.

A parenting program could have beneficial effects for parents as well as their adolescents. South African adults are often reluctant to attend HIV prevention programs because of the associated stigma, although they may still be at high risk: HIV prevalence among the employed in South Africa is estimated to be 10-25%.²⁰⁻²² A program focused on

adolescents and family relationships may be more attractive to parents than a program solely focused on adult HIV prevention, thereby promoting the health of both generations.

We conducted a randomized pilot test to examine whether *Let's Talk!*, a worksite-based HIV prevention program for parents, could improve parent-child communication about HIV and sexual health. We hypothesized that *Let's Talk!* would enhance parent-child communication, including prompting more parent-child conversations about HIV and sex. We also hypothesized that the program could lead to changes in parents themselves, including encouraging greater self-efficacy for condom use and greater condom use behavior.

Methods

Intervention Setting and Community Partnership

This study was conducted in the municipal Cape Town City Council (hereafter referred to as "City") worksites in the Western Cape province, which is 27% Black African, 54% Coloured, and 18% White. Official City languages are English, isiXhosa (spoken by the majority of Black Africans in the Western Cape), and Afrikaans (spoken by people who are Coloured). The City is Cape Town's largest employer, with a workforce of ~22,000 across multiple locations. We trained study facilitators from the City's pool of HIV peer educators.²³

Consistent with principles of community-based participatory research (CBPR),²⁴ the City was an engaged and equal partner throughout the research process, from formative intervention development research to intervention implementation. The community-academic study team also partnered with a community advisory board (CAB) composed of worksite representatives and staff at community-based organizations that emphasized adolescent, parent, and/or family social services, and HIV prevention. The CAB met at key points during the project to contribute to culturally relevant intervention adaptation, help interpret results, and provide feedback regarding intervention acceptability, feasibility, and sustainability.

Study Design

We evaluated *Let's Talk!* with two intervention and two wait-list control groups of parents/ caregivers (hereafter referred to as "parents"), stratified by language (Afrikaans vs. isiXhosa). Randomization was conducted following baseline assessment at the individual parent level, within worksite; parents entered the intervention ~one-week post-baseline. Parents and adolescents were surveyed at baseline and ~two-months post-baseline (one-totwo weeks after the end of the five week-intervention).

Intervention Protocol

The intervention consisted of five weekly two-hour group sessions for parents of adolescents aged 11–15; each group consisted of ~15 parents. As is standard for the City's HIV prevention programming for employees, parents were released from work for the sessions. The program was standardized and manualized across groups, and each group was led by a trained facilitator and co-facilitator who were City peer HIV educators.

Training consisted of two five-day workshops led by a doctoral-level clinical psychologist who modeled the program sessions and taught motivational interviewing principles²⁵ (i.e., a nonconfrontational style emphasizing open-ended questions, and reflective listening, as well as exploration of ambivalence about communication with adolescents about sex), for facilitators to use when interacting with and teaching parents.

Using formative qualitative research, worksite partner and CAB input, and data from a pretest-posttest process evaluation of one pilot intervention group, the program's content and structure were culturally adapted from Talking Parents, Healthy Teens (TPHT), a successful US-based program that led to improved parent-child communication about sex.^{26,27} For example, to fit into the basic structure of HIV prevention worksite workshops, the sessions were reorganized into weekly two-hour sessions over five weeks, rather than the eight one-hour lunchtime sessions that were better-suited to US worksites. A session was added on HIV (to replace part of a session on sexually transmitted infections in the US), and assertiveness skills were emphasized, given South Africa's high sexual violence rates.²⁸ To accommodate lower-literacy employees, program material was primarily conveyed verbally, fewer written materials were disseminated, pictures were added to written materials, and take-home activities were modified to allow children to scribe written portions. In addition, didactic material was shortened and discussion time was lengthened. Overall, all of the original US program skills were maintained because stakeholders felt that they were transferable to the South African context. Moreover, community stakeholders universally agreed that an HIV prevention parenting intervention was critically needed and culturally acceptable.

Table 1 shows a program description. In each of the first four sessions, parents learned two new communication skills. Parents had opportunities to practice each skill in a role play with another parent and in a take-home activity with their child. Parents also engaged in a facilitator-led group discussion on a topic relevant to that week's content. In the fifth session, parents practiced all skills using role-plays.

One observer, as well as the facilitator and co-facilitator, rated the coverage of manual topics in each session; across ratings and sessions, facilitators averaged 97% (SD=5%) of topics covered in the Afrikaans sessions and 89% (SD=16%) of topics covered in the Xhosa sessions. On a feedback form given to parents after each session, parents rated the session on a scale from 1, thumbs down, to 5, thumbs up; average ratings were high across Afrikaans (M=4.96, SD=0.19) and isiXhosa (M=4.87, SD=0.58) sessions. Across all sessions, parents provided 103 general comments in response to an open-ended question on the form. Nearly all (n=94; 91%) comments were favorable ("educational," "excellent," "engaging"), two were negative ("[teaching about condoms] can make a child think he is supposed to do sex"), and the remainder were neutral ("I'm thinking of doing [the skill] today").

Translation

Study materials (manual, surveys, handouts, etc.) were translated by one isiXhosa and one Afrikaans-speaking team member experienced with regional variations in language use and colloquialisms. Other native-speaking team members reviewed all final documents to ensure linguistic and cultural accuracy. Facilitators suggested additional revisions to the wording.

Participant Recruitment

Parents of 11–15-year-olds were recruited from five City departments (Solid Waste, Roads and Stormwater, Municipal Libraries, Electricity Maintenance, Parks and Recreation) across seven worksite regions (Crossroads, Delft, Gugulethu, Mitchells Plain, Nyanga, Phillipi, Strandfontein) via on-site informational sessions provided by the study team, as well as fliers and emails disseminated by site managers. Employees were eligible if they had 1 child aged 11–15-years-old who resided with them 2 days per week. Interested parents contacted the study team and were screened for eligibility; eligible parents provided written informed consent for themselves and written permission for their adolescent to be interviewed at home or by phone; adolescents provided assent.

Sixty-six parents [64% male, mean age 43 years (SD=7), range 23–59] and their 66 adolescents [44% girls; mean age 13 years (SD=1), range 11–15] participated, which included 34 isiXhosa-speaking and 32 Afrikaans-speaking parent-child dyads; seven parents were non-biological (four step-parents, three relatives). Thirty-four parents were randomized to the intervention group and 32 parents to the control group. Of those assigned to the intervention group, 68% of parents attended session 1, 76% session 2, 74% session 3, 71% session 4, and 82% session 5. In addition, 73% attended 4–5 sessions, 15% attended 2–3 sessions, 3% attended 1 session, and 9% attended no sessions.

Data Collection

Most parents (n=52) completed audio-computer-assisted self-interviews (ACASI) at the worksite; 14 completed surveys at home, due to scheduling difficulties. Study staff conducted face-to-face interviews with 63 adolescents whom parents had selected to participate in the assessment; due to scheduling issues, 3 were interviewed by telephone. All 66 parents, and 64 of the 66 adolescents, responded to the follow-up survey; two adolescents could not be reached at follow-up.

Parents and adolescents could choose to be surveyed in English or their native language (Afrikaans or Xhosa). Parents received 100 Rand (~US \$15) and adolescents selected a small gift (e.g., soccer ball) for participation in each survey. Boston Children's Hospital and Stellenbosch University institutional review boards approved the research.

Survey Content

Adaptation—Survey content was based on constructs used in *TPHT*. Prior to translation, we adapted, added, or dropped items based on qualitative interviews with parents and adolescents, as well as a pretest-posttest process evaluation of one intervention group. South African team members, including native isiXhosa and Afrikaans speakers, reviewed the final survey for cultural relevance and acceptability.

Socio-demographic covariates—Parents reported their age, gender, education (highest completed grade), occupation (job title), whether they lived with a partner (as married or unmarried), and their relationship to the child (e.g., biological parent, grandparent). Parents also reported age and gender of the target child whom they selected to participate in the assessment. We used the Hollingshead four factor social status index to assess socio-economic status (SES) ²⁹; lower scores on its range of 8–66 indicate lower social status. It has been significantly correlated with the Household Economic and Social Status Index, a measure validated for South Africa.³⁰ The Hollingshead index typically includes parents' and co-parents' occupation; due to insufficient information, we used index parent occupation only.

Communication about HIV and sex—Parents reported whether they had ever discussed each of 16 topics related to HIV and sex with the target child (see Table 4); adolescents reported whether they had ever discussed these topics with the index parent. Topics were drawn from *Let's Talk!*'s session content and modeled after a similar *TPHT* measure. Responses were summed and coded as number of topics discussed at baseline and follow-up, and number of new topics discussed at follow-up that had not been discussed at baseline. Baseline internal reliabilities were strong (parent =92; adolescent =.86).

Comfort talking about sex—*Let's Talk!* aims to increase parents' comfort in talking with their child about sex, by providing practice through role plays and suggesting strategies (e.g., how to open the conversation using "opening lines" and identifying "teaching moments," such as a dating scene in a television show). To examine this aspect of *Let's*

Talk!, we adapted one item from the Speaking Extent and Comfort Scale (SPEACS)³¹, which assesses general comfort with conversations with different people in one's network; we adapted the SPEACS to measure comfort with talking about sex with one's adolescent (for parents) and with one's parent (for adolescents): "Please indicate the number that best describes how comfortable you feel, in general, when you talk with this child/parent about sex" with response options 1, *not at all comfortable* to 7, *very comfortable*.

Parents' self-efficacy for condom use and condom use behaviors—We used a 7-item scale³² to assess condom use self-efficacy, or parents' confidence in being able to use a condom in a variety of situations (=.80). A sample item is: "How sure are you that you would be able to use a condom every time that you had sexual intercourse?" with response options 1=not at all sure, 2=a little sure, 3=somewhat sure, 4=pretty sure, and 5=very sure. Parents were also asked the number of times that they had vaginal and anal sex in the past three months, and of those times, the number of times that a condom was used; we derived a dichotomous variable of *no condom use* vs. *any condom use* across sexual acts. Similar sexual behaviour measures have been used in prior South African research.³³

Statistical Analysis

For each continuous parent and child outcome, we conducted a multivariate linear regression predicting the outcome with intervention group (intervention vs. control), baseline value of the outcome variable, and language (isiXhosa vs. Afrikaans). For condom use, a dichotomous outcome, we used logistic regression. To test for covariates, we added each socio-demographic characteristic one at a time to this basic model; socio-demographic characteristics that were significantly (p<.05) associated with any of the outcomes were added to the basic model.

In follow-up exploratory analyses, we used logistic regression models to test whether parentchild communication on each of the 16 discussion topics changed as a result of the intervention (i.e., whether any of the topics were more likely to be discussed postintervention in the intervention vs. control group); models predicted whether each topic was discussed post-intervention with intervention group (intervention vs. control), baseline value of whether the topic was discussed, and language.

Because none of the child outcomes significantly changed as a result of the intervention (as shown in Table 3), they will not be discussed further.

Results

Participants

All 66 parents who expressed interest after the worksite presentations about eligibility criteria were found to be eligible. All parents gave consent to contact their adolescent for the study, and all 66 adolescents participated at baseline. The intervention and control groups did not significantly differ on socio-demographic characteristics (Table 2).

Communication about Sex and HIV

Sum of topics discussed—Table 3 shows the coefficients for the intervention indicator for number of topics discussed, and Figure 1 depicts the average number of topics discussed at both time-points in the intervention and control groups. A significant intervention effect indicated that the number of topics discussed since baseline was significantly larger for intervention parents than for control parents. At baseline, means did not differ between intervention parents (M=7.8, SD=4.8) and control parents (M=8.3, SD=5.7), p=.34. After the intervention, intervention parents reported discussing an average of 12.4 (SD=4.3) topics

with their adolescent, while control parents reported an average of 9.3 (SD=5.7) topics. The difference between the pre-to-post increases in the intervention means versus the control means was significant (p = .005). The number of new topics discussed since baseline–that had not been discussed before the start of the intervention–was greater among intervention parents (M=5.9, SD=4.7) than control parents (M=2.8, SD=3.6), p<.001.

Specific topics discussed—As shown in Table 4, the intervention increased discussion on a number of topics. For example, intervention parents were nearly five times more likely to discuss the steps of condom use than were control parents; at baseline 35% of intervention parents and 34% of control parents had ever discussed the steps of condom use with their child, whereas 71% of intervention parents versus 38% of control parents did so after the baseline survey, p=.006.

Comfort talking about sex—As shown in Table 3, intervention parents felt more comfortable than control parents talking with their child about sex after, versus before, the intervention. On average, intervention parents (M=3.39, SD=1.84) and control parents (M=4.1, SD=2.2) had similar comfort ratings at baseline (p=.17), whereas intervention parents showed increased comfort (M=5.0, SD=1.7) post-intervention and control parents did not (M=4.3, SD=1.9), p=.02.

Condom use self-efficacy and behavior—The intervention led to greater self-efficacy for condom use among intervention parents, but not among control parents. Intervention parents showed increased self-efficacy from baseline (M=3.8, SD=1.0) to follow-up (M=4.6, SD=0.8), whereas control parents remained similar at both time points (baseline M=4.1, SD=1.0 vs. follow-up M=4.1, SD=1.0), p=.007. Results for condom use behavior were not significant, p=.30.

Discussion

Our randomized study – the first worksite-based HIV prevention intervention for parents in sub-Saharan Africa – suggests that *Let's Talk!* had beneficial effects on parent-child communication. On average, parents in *Let's Talk!* reported that they had broached an average of six new HIV- and sex-related topics with their adolescent following the intervention. Moreover, the intervention increased discussions specifically about condom use, a topic that has been reported to be uncommon in parent-adolescent conversations in sub-Saharan Africa.¹¹ Although we did not measure long-term effects, our intervention increased parent-child communication – a protective factor that has been associated with lower sexual risk among adolescents in some studies in sub-Saharan Africa¹¹ – and thus has the potential to reduce adolescents' long-term risk.

Parents' own self-efficacy for condom use increased following the intervention, showing that *Let's Talk!*'s effects extend to parents as well as the parent-child relationship. Numerous studies, including in South Africa, have shown a significant relationship between self-efficacy for condom use and condom use behavior^{34,35}; thus, these results are encouraging. However, our follow-up period was too short to assess whether the intervention's effects on self-efficacy in turn led to greater condom use. In South Africa, both adults and adolescents are at high HIV risk, yet adults are reluctant to attend prevention programs or to get tested due to associated high stigma.^{36,37} A program for parents can help to de-stigmatize HIV by focusing parents on the need to protect their children, while simultaneously educating parents.

Importantly, our research was conducted as a partnership with the City's peer educator program. We drew program facilitators from the worksite's existing pool of peer HIV

educators, and thus built worksite capacity for new HIV prevention programming, increasing the likelihood of sustainability. Worksite peer educators play a unique and promising grassroots role in the South African HIV epidemic:²³ peer educators operate within worksite social networks to impart HIV knowledge into informal and formal exchanges.

Consistent with prior parenting intervention research in sub-Saharan Africa, our intervention had an effect on parents' perceptions of parent-child communication^{11,16} but did not show an effect on adolescents' perceptions. Due to the pilot nature of our study, the nonsignificant results are likely due to insufficient statistical power. A greater number of worksites, parents, and adolescents would be needed for a full effectiveness test. Moreover, adolescents received a weaker dose of the intervention compared to parents, as they did not directly participate in program sessions; thus a larger number of adolescents and a longer follow-up would be needed to show an effect. Intervention effects also may have been diluted by children talking with other adults (and not only the index parent), including close relatives, and by parents talking with other children (not only the index child). We also recognize the potential for parent perceptions to be influenced by social desirability: parents who took the program were likely to recognize the topics on the survey as ones covered in the sessions and may have wanted to show that they learned from the program. A larger randomized controlled trial is needed to measure effects of the intervention among all adolescents in the family; to determine whether youths' close relationships with other adults weaken effects for parental communication; and to assess whether the findings for parents hold over time, when social desirability effects are likely to weaken.

Due to the generalized nature of the HIV epidemic in South Africa and the multiple factors that contribute to risk behaviors and biological transmission, any single approach to HIV prevention is unlikely to be sufficient. Multi-pronged, multi-level approaches are needed, which involve national, community, and school efforts alongside family-based interventions.³⁸ Promising approaches have already been developed for schools, community agencies, and faith-based organizations.^{9,39,40} We believe that worksite-based parenting interventions should be added as one more strategy for the HIV prevention toolkit. A family-oriented worksite parenting approach can be valuable in complementing other efforts, through strengthening the home environment.

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Figure 1.

Parent Report of Number of Sex- and HIV-related Topics discussed with Adolescent at Baseline and Follow-up (n = 66 parents)

Table 1

Let's Talk! Program Session Outline

Session	Communication Skill	Weekly Take-Home Activities
1. Building Your Relationship with Your Child Focus: Teaching parents the importance of communication; learning new skills to promote open dialogue with adolescents.	Five Strategies to Encourage Adolescents to Talk. Facilitating communication with adolescents using verbal and nonverbal techniques. <u>Catching Your Child Doing Something Good</u> . Reinforcing adolescents' strengths by noticing and commenting on a positive behavior. <u>Also covered</u> : Reinforcing appropriate supervision	<u>Parents</u> 1. Use five strategies to encourage child to talk. 2. Catch child doing two things that parent likes.
2. Talking about Sensitive Topics <u>Focus:</u> Identifying personal attitudes regarding conversations about sex; overcoming fears of talking to adolescents about sex and HIV.	Thinking of Your Opening Line Ahead of Time.Practicing how to start conversations about sex in advance.Overcoming Your Adolescent's Reluctance to Talk about Sex. Surmounting roadblocks to positive communication about sex.Also covered:Using teaching moments to begin conversations about sex & HIV; Thinking from the teen's perspective: reasons for and against having sex.	<u>Parents</u> : 1. Use teaching moments and opening lines to start a conversation about a sensitive topic with child. 2. Have a conversation with child about reasons for and against having sex.
3. Talking about HIV & Condoms <u>Focus:</u> Understanding and discussing HIV stigma and empathy; reviewing the steps of proper condom use.	<u>How to Use a Condom.</u> Reviewing the steps of correct condom use and learning how to teach child these steps. <u>Also covered</u> : Facts and myths about HIV; Learning about HIV stigma and empathy; Tips for talking with adolescents about HIV.	<u>Parents</u> :1. Play and discuss an HIV facts game with child. 2. Play a game about proper condom use and related obstacles to condom use with child.
4. Building Assertiveness Skills <u>Focus:</u> Learning ways to empower adolescents to firmly exercise their view-points and respect the view- points of others.	<u>Teach Your Child Alternative Actions and Delay Tactics.</u> Learning to teach child how to exit a pressure situation by offering a different activity and cooling down a situation. <u>Avoiding Sex Without Condoms</u> . Discussing strategies for applying assertiveness skills sexual situations to ensure condom use partner. <u>Also covered:</u> Help your child say "no" peer pressure; Teaching respect.	<u>Parents:</u> 1. Teach assertiveness skills to child through role- play exercise and follow-up questions. 2. Ask child questions to stimulate discussion about what "no" means and how to respect that decision.
5. Putting It All Together & Staying Motivated Focus: Reviewing skills learned and exploring barriers & motivators for using the skills.	<u><i>Review.</i></u> Parents review and role-play all of the skills taught in the program, and identify the next conversation they will have with their child on sex and HIV; parents are encouraged to stay in touch with one another.	

Table 2

Baseline Participant Characteristics by Treatment Group

	Intervention (n=34)	Control (n=32)	Total (n=66)
Parent gender (Female)	35%	38%	36%
Child gender (Female)	38%	50%	44%
Live with Partner	71%	66%	68%
Biological Parent	88%	91%	89%
Parent Age	M=43.9, SD=6.5	M=42.8, SD=8.0	M=43.3, SD=7.2
Child Age	M=12.7, SD=1.1	M=12.8, SD=1.4	M=12.8, SD=1.3
Socio-economic Status ¹	M=27.8, SD=10.9	M=25.7, SD=12.4	M=26.8, SD=11.6

Note: Based on Fisher's exact tests (for dichotomous characteristics) and t-tests (for continuous characteristics), no significant differences emerged in baseline demographic data between groups (all p-values>0.05).

¹Socio-economic status as assessed by the Hollingshead Index²⁹

Table 3

Effects of Let's Talk! on Parent-Child Communication and Parent Condom Use Self-Efficacy (n=66 parents)

	Interventi	ion (n=34)	Control	(n=32)	Adjusted Coefficient	Effect Size	
	Pre M(SD)	Post M(SD)	Pre M(SD)	Post M(SD)	b(SE)	SD	Р
Parent Outcomes							
Comfort Talking to Child about Sex	3.4(1.8)	5.0(1.7)	4.1(2.1)	4.3(1.9)	1.0(0.4)	0.5	.015
Number of Sex and HIV Topics Discussed	7.8(4.8)	12.4(4.3)	8.3(5.7)	9.3(5.7)	3.3(1.1)	0.6	.005
Number of New Sex and HIV Topics Discussed at Follow-Up		5.9(4.7)		2.8(3.6)	2.9(0.8)	0.6	<001
Self-Efficacy for Condom Use	3.8(1.0)	4.6(0.8)	4.1(1.0)	4.1(1.0)	0.6(0.2)	0.6	.007
Child Outcomes							
Comfort Talking to Parent about Sex	4.1(1.9)	4.6(1.8)	3.7(1.9)	4.2(1.8)	0.2(0.4)	0.1	.60
Number of Sex and HIV Topics Discussed	7.2(4.7)	9.2(4.8)	9.4(4.0)	9.2(5.1)	1.3(1.1)	0.3	.24
Number of New Sex and HIV Topics Discussed at Follow-Up		3.5(3.3)		2.6(2.7)	0.3(0.7)	0.1	.66

Note: Multivariate tests controlled for participants' primary language (Afrikaans vs. Xhosa) and for baseline value of the outcome. Models controlling for other parent and child socio-demographics (e.g., socio-economic status, age) yielded similar results.

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Table 4

Effect of *Let's Talk!* on Individual Topics Discussed by Parent with Child (n=66 parents)

	Control	Group	Interventi	on Group	
Topic	% Discussed (Pre)	% Discussed (Post)	% Discussed (Pre)	% Discussed (Post)	Odds Ratio (95% Confidence Interval)
How children's bodies change physically as they grow up	56	69	53	79	2.1(0.6, 8.4)
How women get pregnant	23	59	50	74	2.2(0.7,7.0)
How child will make decisions about whether or not to have sex	47	50	35	79	$4.3(1.4,13.2)^{*}$
What sex is	26	66	38	76	2.1(0.7,6.8)
How to prevent pregnancy	53	63	53	85	$3.9(1.1, 13.7)^{*}$
How condoms can prevent HIV	99	56	62	74	2.2(0.8, 6.3)
Steps of how to use a condom	34	38	35	71	$5.0(1.6, 15.8)^{**}$
How to prevent getting HIV	63	75	71	91	3.3(0.8, 14.0)
What to do if partner doesn't want to use a condom	41	47	47	74	$3.1(1.1,9.0)^{*}$
Importance of not pressuring others to have sex	38	63	44	85	$3.6(1.0,12.9)^{*}$
Reasons why people like to have sex	34	50	32	62	$4.6(1.4, 15.0)^{*}$
Reasons why child should not have sex	95	56	50	79	$4.7(1.3, 17.6)^{*}$
How to say no if someone wants to have sex and your child doesn't want to	99	53	38	71	$3.3(1.0,10.8)^{*}$
Consequences of alcohol & drug use	72	75	62	79	1.7(0.5, 5.8)
How to recognize violence and abuse in relationships	59	63	62	71	1.4(0.5, 4.2)
Homosexuality/people being gay	20	47	47	71	$3.42(1.1, 10.9)^{*}$
* p<05					

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* p<01 *** p<001 Note: results based on logistic regressions predicting discussion after baseline, controlling for language and whether the topic had ever been discussed prior to baseline.