

## **Supplementary Material**

### **Evidence for behavioural interventions addressing condom use fit and feel issues to improve condom use: a systematic review**

*Sydney Anstee<sup>A</sup>, Jonathan Shepherd<sup>B</sup>, Cynthia A. Graham<sup>A,D</sup>, Nicole Stone<sup>A</sup>, Katherine Brown<sup>C</sup>, Katie Newby<sup>C</sup> and Roger Ingham<sup>A</sup>*

<sup>A</sup>Centre for Sexual Health Research, Department of Psychology, Faculty of Environmental and Life Sciences, Shackleton Building (B44) Room 3073, University of Southampton, Southampton, Hampshire SO17 1BJ, UK.

<sup>B</sup>Southampton Health Technology Assessments Centre (SHTAC), Alpha House, Wessex Institute, Enterprise Road, University of Southampton Science Park, Southampton, Hampshire SO16 7NS, UK.

<sup>C</sup>Centre for Advances in Behavioural Science, Faculty of Health and Life Sciences, Richard Crossman Building (4th Floor), Coventry University, Priory Street, Coventry CV1 5FB, UK.

<sup>D</sup>Corresponding author. Email: C.A.Graham@soton.ac.uk

**File S1. Full list of studies retrieved (N = 123)**

1. Albarracin, J., Albarracin, D., & Durantini, M. (2008). Effects of HIV-prevention interventions for samples with higher and lower percents of Latinos and Latin Americans: A meta-analysis of change in condom use and knowledge. *AIDS and Behavior, 12*, 521-543.
2. Bailey, J. V., Murray, E., Rait, G., Mercer, C. H., Morris, R. W., Peacock, R., ...Nazareth, I. (2012). Computer-based interventions for sexual health promotion: Systematic review and meta-analyses. *International Journal of STD and AIDS, 23*, 408-413.
3. Bannink, R., Broeren, S., Joosten-van Zwanenburg, E., van As, E., van de Looij-Jansen, P., & Raat, H. (2014). Effectiveness of a web-based tailored intervention (E-health4Uth) and consultation to promote adolescents' health: randomized controlled trial. *Journal of Medical Internet Research, 16*, e143.
4. Borawski, E. A., Trapl, E. S., Adams-Tufts, K., Hayman, L. L., Goodwin, M. A., & Lovegreen, L. D. (2009). Taking be proud! Be responsible! To the suburbs: A replication study. *Perspectives on Sexual and Reproductive Health, 41*, 12-22.
5. Brown, L. K., Hadley, W., Donenberg, G. R., DiClemente, R. J., Lescano, C., Lang, D. M.,...Oster, D. (2013). Project STYLE: A multisite RCT for HIV prevention among youths in mental health treatment. *Psychiatric Services, 65*, 338-344.
6. Brown, L. K., Houck, C., Donenberg, G., Emerson, E., Donahue, K., & Misbin, J. (2013). Affect management for HIV prevention with adolescents in therapeutic schools: the immediate impact of project balance. *AIDS and Behavior, 17*, 2773-2780.
7. Bryan, A., Robbins, R. N., Ruiz, M. S., & O'Neill, D. (2006). Effectiveness of an HIV prevention intervention in prison among African Americans, Hispanics, and Caucasians. *Health Education and Behavior, 33*, 154-177.

8. Bryan, A. D, Schmiede, S. J., & Broaddus, M. R. (2009). HIV risk reduction among detained adolescents: A randomized, controlled trial. *Pediatrics*, *124*, e1180-e8.
9. Bull, S., Pratte, K., Whitesell, N., Rietmeijer, C., & McFarlane, M. (2009). Effects of an Internet-based intervention for HIV prevention: The Youthnet trials. *AIDS and Behavior*, *13*, 474-487.
10. Bull, S. S., Levine, D. K., Black, S. R., Schmiede, S. J., & Santelli, J. (2012). Social media-delivered sexual health intervention: A cluster randomized controlled trial. *American Journal of Preventive Medicine*, *43*, 467-474.
11. Calderon, Y., Leu, C. S., Cowan, E., Nickerson, J., & Brusalis, C. (2012). Project control-evaluation of a brief HIV counseling video to improve risk reduction behavior of teenagers. *Retrovirology*, *9*(1), P61.
12. Calloway, D. S., Long-White, D. N., & Corbin, D. E. (2014). Reducing the risk of HIV/AIDS in African American college students: an exploratory investigation of the efficacy of a peer educator approach. *Health Promotion and Practice*, *15*, 181-188.
13. Carmack, C., Lewis, R. K., & Roncancio, A. (2015). Get the message: Targeting beliefs to develop risk reduction intervention messages for African American adolescents. *American Journal of Community Psychology*, *55*, 396-410.
14. Charania, M. R., Crepaz, N., Guenther-Gray, C., Henny, K., Liao, A., Willis, L. A., & Lyles, C. M. (2011). Efficacy of structural-level condom distribution interventions: A meta-analysis of U.S. and international studies, 1998–2007. *AIDS and Behavior*, *15*, 1283-1297.
15. Chen, X., Stanton, B., Gomez, P., Lunn, S., Deveaux, L., Brathwaite, N., ...Harris, C. (2010). Effects on condom use of an HIV prevention programme 36 months postintervention: A cluster randomized controlled trial among Bahamian youth. *International Journal of STD & AIDS*, *21*, 622-630.

16. Cooper, B., Toskin, I., Kulier, R., Allen, T., & Hawkes, S. (2014). Brief sexuality communication--a behavioural intervention to advance sexually transmitted infection/HIV prevention: a systematic review. *BJOG: An International Journal of Obstetrics and Gynaecology*, *121*, 92-103.
17. Copenhaver, M. M., Johnson, B. T., Lee, I. C., Harman, J. J., & Carey, M. P. (2006). Behavioral HIV risk reduction among people who inject drugs: Meta-analytic evidence of efficacy. *Journal of Substance Abuse Treatment*, *31*, 163-171.
18. Cornelius, J. B., Dmochowski, J., Boyer, C., St. Lawrence, J., Lightfoot, M., & Moore, M. (2013). Text-messaging-enhanced hiv intervention for african american adolescents: A feasibility study. *Journal of the Association of Nurses in AIDS Care*, *24*, 256-267.
19. Crosby, R., DiClemente, R. J., Charnigo, R., Snow, G., & Troutman, A. (2009). A brief, clinic-based, safer sex intervention for heterosexual African American men newly diagnosed with an STD: a randomized controlled trial. *American Journal of Public Health*, *99*, S96-103.
20. Crosby, R., & Salazar, L. F. (2015). Reduction of condom use errors from a brief, clinic-based intervention: a secondary analysis of data from a randomised, controlled trial of young black males. *Sexually Transmitted Infections*, *91*, 111-115.
21. Crosby, R. A., Charnigo, R. J., Salazar, L. F., Pasternak, R., Terrell, I. W., Ricks, J., Taylor, S., N. (2014). Enhancing condom use among Black male youths: a randomized controlled trial. *American Journal of Public Health*, *104*, 2219-2225.
22. Darbes, L., Crepaz, N., Lyles, C., Kennedy, G., & Rutherford, G. (2008). The efficacy of behavioral interventions in reducing HIV risk behaviors and incident sexually transmitted diseases in heterosexual African Americans. *AIDS*, *22*, 1177-1194.
23. Deveaux, L., Stanton, B., Lunn, S., Cottrell, L., Yu, S., Brathwaite, N., ... Harris, C. (2007). Reduction in human immunodeficiency virus risk among youth in developing countries. *Archives of Pediatrics and Adolescent Medicine*, *161*, 1130-1139.

24. Edwards, K. E., Gibson, N., Martin, J., Mitchell, S., & Andersson, N. (2011). Impact of community-based interventions on condom use in the Tlicho region of Northwest Territories, Canada. *BMC Health Services Research, 11*, S9.
25. Elliott, L., Henderson, M., Nixon, C., & Wight, D. (2013). Has untargeted sexual health promotion for young people reached its limit? A quasi-experimental study. *Journal of Epidemiology and Community Health, 67*, 398-404.
26. Emetu, R. E., Marshall, A., Sanders, S. A., Yarber, W. L., Milhausen, R. R., Crosby, R. A., & Graham, C. A. (2014). A novel, self-guided, home-based intervention to improve condom use among young men who have sex with men. *Journal of American College Health, 62*, 118-124.
27. Ferrer, R.A., Fisher, J. D., Buck, R., & Amico, K. R. (2011). Pilot test of an emotional education intervention component for sexual risk reduction. *Health Psychology, 30*, 656-660.
28. Fisher, H. H., Patel-Larson, A., Green, K., Shapatava, E., Uhl, G., Kalayil, E. J, ... Chen, B. (2011). Evaluation of an HIV prevention intervention for African Americans and Hispanics: Findings from the VOICES/VOCES Community-based Organization Behavioral Outcomes Project. *AIDS and Behavior, 15*, 1691-1706.
29. Frye, V., Henny, K., Bonner, S., Williams, K., Bond, K. T., Hoover, D. R., ... & Straight Talk Study Team (2013). "Straight Talk" for African-American heterosexual men: Results of a single-arm behavioral intervention trial. *AIDS Care, 25*, 627-631.
30. Garcia-Retamero, R., & Cokely, E. T. (2011). Effective communication of risks to young adults: Using message framing and visual aids to increase condom use and STD screening. *Journal of Experimental Psychology: Applied, 17*, 270-287.
31. Gaydos, C. A., Hsieh, Y. H., Galbraith, J. S., Barnes, M., Waterfield, G., & Stanton, B.(2008). Focus-on-Teens, sexual risk-reduction intervention for high-school adolescents:

Impact on knowledge, change of risk-behaviours, and prevalence of sexually transmitted diseases. *International Journal of STD and AIDS*, 19, 704-710.

32. Godin, G., Naccache, H., Cote, F., Leclerc, R., Frechette, M., & Alary, M. (2008).

Promotion of safe sex: evaluation of a community-level intervention programme in gay bars, saunas and sex shops. *Health Education Research*, 23, 287-297.

33. Gold, J., Lim, M. S. C., Hocking, J. S., Keogh, L. A., Spelman, T., & Hellard, M. E.

(2011). Determining the impact of text messaging for sexual health promotion to young people. *Sexually Transmitted Diseases*, 38, 247-252.

34. Goldberg, E., Millson, P., Rivers, S., Manning, S. J., Leslie, K., Read, S., ... Victor, J. C.

(2009). A Human Immunodeficiency Virus risk reduction intervention for incarcerated youth: A randomized controlled trial. *Journal of Adolescent Health*, 44, 136-145.

35. Harvey, S. M., Kraft, J. M., West, S. G., Taylor, A. B., Pappas-Deluca, K. A., Beckman,

L. J. (2009). Effects of a health behavior change model--based HIV/STI prevention intervention on condom use among heterosexual couples: a randomized trial. *Health Education and Behavior*, 36, 878-894.

36. Hennessy, M., Romer, D., Valois, R. F., Vanable, P., Carey, M. P., Stanton, B. ... Salazar,

L. (2013). Safer sex media messages and adolescent sexual behavior: 3-year follow-up results from project iMPPACS. *American Journal of Public Health*, 134-140.

37. Herbst, J. H., Beeker, C., Mathew, A., McNally, T., Passin, W. F. , Kay, L. S. ... Task

Force on Community Preventive Services (2007). The effectiveness of individual-, group-, and community-level HIV behavioral risk-reduction interventions for adult men who have sex with men: a systematic review. *American Journal of Preventive Medicine*, 32, S38-67.

38. Hightow-Weidman, L. B., Pike, E., Fowler, B., Matthews, D. M., Kibe, J., McCoy, R., &

Adimora, A. A. (2012). HealthMpowerment.org: feasibility and acceptability of delivering an internet intervention to young Black men who have sex with men. *AIDS Care*, 24, 910-920.

39. Hill, C. A., & Abraham, C. (2008). School-based, randomised controlled trial of an evidence-based condom promotion leaflet. *Psychology and Health, 23*, 41-56.
40. Hosek, S. G., Lemos, D., Hotton, A. L., Fernandez, M. I., Telander, K., Footer, D., & Bell, M. (2015). An HIV intervention tailored for black young men who have sex with men in the House Ball Community. *AIDS Care, 27*, 355-362.
41. Hurd, N. M., Valerio, M. A., Garcia, N. M., & Scott, A. A. (2010). Adapting an hiv prevention intervention for high-risk, incarcerated adolescents. *Health Education and Behavior, 37*, 37-50.
42. Jemmott III, J. B., Jemmott, L. S., Fong, G. T., & Morales, K. H. (2010). Effectiveness of an HIV/STD risk-reduction intervention for adolescents when implemented by community-based organizations: a cluster-randomized controlled trial. *American Journal of Public Health, 100*, 720-726.
43. Jemmott, J. B., Jemmott, L. S., & Fong, G. T. (2010). Efficacy of a theory-based abstinence-only intervention over 24 months: A randomized controlled trial with young adolescents. *Archives of Pediatrics and Adolescent Medicine, 164*, 152-159.
44. Johnson, B. T., Michie, S., & Snyder, L. B. (2014). Effects of behavioral intervention content on HIV prevention outcomes: A meta-review of meta-analyses. *Journal of Acquired Immune Deficiency Syndromes, 66*, S259-S70.
45. Johnson, B. T., Scott-Sheldon, L. A., Huedo-Medina, T. B., & Carey, M. P. (2011). Interventions to reduce sexual risk for human immunodeficiency virus in adolescents: a meta-analysis of trials, 1985-2008. *Archives of Pediatrics and Adolescent Medicine, 165*, 77-84.
46. Johnson, B. T., Scott-Sheldon, L. A. J., Smoak, N. D., LaCroix, J. M., Anderson, J.R., & Carey, M. P. (2009). Behavioral interventions for African Americans to reduce sexual risk of HIV: A meta-analysis of randomized controlled trials. *Journal of Acquired Immune Deficiency Syndromes, 51*, 492-501.

47. Johnson, W. D, Diaz, R. M., Flanders, W. D., Goodman, M., Hill, A. N., Holtgrave D., ...McClellan, W. M. (2008). Behavioral interventions to reduce risk for sexual transmission of HIV among men who have sex with men. *Cochrane Database of Systematic Reviews*, (CD001230).
48. Jones, K. T., Gray, P., Whiteside, Y. O., Wang, T., Bost, D., Dunbar, E.,...Johnson, W. D. (2008). Evaluation of an HIV prevention intervention adapted for Black men who have sex with men. *American Journal of Public Health*, 98, 1043-1050.
49. Juzang, I., Fortune, T., Black, S., Wright, E., & Bull, S. A. (2011). A pilot programme using mobile phones for HIV prevention. *Journal of Telemedicine and Telecare*, 17, 150-153.
50. Kalichman, S. C., Zohren, L., & Eaton, L. A. (2014). Setting the bar high or setting up to fail? Interpretations and implications of the EXPLORE Study (HPTN 015). *AIDS and Behavior*, 18, 625-633.
51. Kelly, J. A., Amirkhanian, Y. A., Kabakchieva, E., Vassileva, S., Vassilev, B., McAuliffe. T. L., ... Dimitrov, B. (2006). Prevention of HIV and sexually transmitted diseases in high risk social networks of young Roma (Gypsy) men in Bulgaria: Randomised controlled trial. *British Medical Journal*, 333, 1098.
52. Kennedy, S. B., Nolen, S., Pan, Z., Smith, B., Applewhite, J., & Vanderhoff, K. J. (2013). Effectiveness of a brief condom promotion program in reducing risky sexual behaviours among African American men. *Journal of Evaluation in Clinical Practice*, 19, 408-413.
53. Kiene, S. M., & Barta, W. D. (2006). A brief individualized computer-delivered sexual risk reduction intervention increases HIV/AIDS preventive behavior. *Journal of Adolescent Health*, 39, 404-410.
54. Koblin, B. A., Bonner, S., Powell, B., Metralexis, P., Egan, J. E., Patterson, J.,... Van Tieu, H. (2012). A randomized trial of a behavioral intervention for black MSM: The DiSH study. *AIDS*, 26, 483-488.



55. Kogan, S. M., Yu, T., Brody, G. H., Chen, Y. F., Diclemente, R. J., Wingood, G. M., & Corso, P. S. (2012). Integrating condom skills into family-centered prevention: Efficacy of the strong African American families-teen program. *Journal of Adolescent Health, 51*, 164-170.
56. Kudo, Y. (2013). Effectiveness of a condom use educational program developed on the basis of the Information-Motivation-Behavioral Skills model. *Japan Journal of Nursing Science, 10*, 24-40.
57. Kurtz, S. P., Stall, R. D., Buttram, M. E., Surratt, H. L., & Chen, M. A randomized trial of a behavioral intervention for high risk substance-using MSM. *AIDS and Behavior, 17*, 2914-2926.
58. LaBrie, J. W., Pedersen, E. R., Thompson, A. D., & Earleywine, M. (2008). A brief decisional balance intervention increases motivation and behavior regarding condom use in high-risk heterosexual college men. *Archives of Sexual Behavior, 37*, 330-339.
59. LaCroix, J. M., Pellowski, J. A., Lennon, C. A., & Johnson, B. T. (2013). Behavioural interventions to reduce sexual risk for HIV in heterosexual couples: a meta-analysis. *Sexually Transmitted Infections, 89*, 620-627.
60. Lacroix, J. M., Snyder, L. B., Huedo-Medina, T. B., & Johnson, B. T. (2014). Effectiveness of mass media interventions for HIV prevention, 1986-2013: A meta-analysis. *Journal of Acquired Immune Deficiency Syndromes, 66*, S329-S340.
61. Lang, D.L. , DiClemente, R. J., Hardin, J. W., Crosby, R. A., Salazar, L. F., & Hertzberg, V. S. (2009). Threats of cross-contamination on effects of a sexual risk reduction intervention: fact or fiction. *Prevention Science, 10*, 270-275.
62. Lauby, J. L., LaPollo, A. B., Herbst, J. H., Painter, T. M., Batson, H., Pierre, A., & Milnamow, M. (2010). Preventing AIDS through live movement and sound: Efficacy of a

theater-based HIV prevention intervention delivered to high-risk male adolescents in juvenile justice settings. *AIDS Education and Prevention*, 22, 402-416.

63. Lemieux, A. F., Fisher, J. D., & Pratto, F. (2008). A music-based HIV prevention intervention for urban adolescents. *Health Psychology*, 27(3), 349-357.

64. Letourneau, E. J., McCart, M. R., Asuzu, K., Mauro, P. M., & Sheidow, A. J. (2013). Caregiver involvement in sexual risk reduction with substance using juvenile delinquents: Overview and preliminary outcomes of a randomized trial. *Adolescent Psychiatry*, 3, 342-351.

65. Lim, M. S., Hocking, J. S., Aitken, C. K., Fairley, C. K., Jordan, L., Lewis, J. A., & Hellard, M. E. (2012). Impact of text and email messaging on the sexual health of young people: a randomised controlled trial. *Journal of Epidemiology and Community Health*, 66, 69-74.

66. Lomotey, M., Brown, J. L., & DiClemente, R. J. (2013). Targeting STD/HIV prevention interventions for heterosexual male adolescents in North and Central America: A review. *Current Pediatric Reviews*, 9, 376-382.

67. Lopez, L. M., Tolley, E. E., Grimes, D.A., Chen, M., & Stockton, L. L. (2013). Theory-based interventions for contraception. *Cochrane Database of Systematic Reviews*, 8, CD007249.

68. Malow, R. M., McMahon, R. C., Devieux, J., Rosenberg, R., Frankel, A., Bryant, V., ...Miguez, M. J. (2012). Cognitive behavioral HIV risk reduction in those receiving psychiatric treatment: A clinical trial. *AIDS and Behavior*, 16, 1192-1202.

69. Malow, R. M., Stein, J. A., McMahon, R. C., Devieux, J. G., Rosenberg, R., & Jean-Gilles, M. (2009). Effects of a culturally adapted HIV prevention intervention in Haitian youth. *Journal of the Association of Nurses in AIDS Care*, 20, 110-121.

70. Marcell, A. V., Allan, E., Clay, E. A., Watson, C., & Sonenstein, F. L. (2013). Effectiveness of a brief curriculum to promote condom and health care use among out-of-school young adult males. *Perspectives on Sexual and Reproductive Health, 45*, 33-40.
71. Markham, C. M., Peskin, M. F., Shegog, R., Baumler, E. R., Addy, R. C., Thiel, M., ... Tortolero, S. R. (2014). Behavioral and psychosocial effects of two middle school sexual health education programs at tenth-grade follow-up. *Journal of Adolescent Health, 54*, 151-159.
72. Marsch, L. A., Grabinski, M. J., Bickel, W. K., Desrosiers, A., Guarino, H., Muehlbach, B., ... Acosta, M. (2011). Computer-assisted HIV prevention for youth with substance use disorders. *Substance Use & Misuse, 46*, 46-56.
73. McCoy, C. B., De Gruttola, V., Metsch, L., & Comerford, M. (2011). A comparison of the efficacy of two interventions to reduce HIV risk behaviors among drug users. *AIDS and Behavior, 15*, 1707-1714.
74. Merakou, K., & Kourea-Kremastinou, J. (2006). Peer education in HIV prevention: An evaluation in schools. *European Journal of Public Health, 16*, 128-132.
75. Mevissen, F. E., Ruiter, R. A., Meertens, R. M., Zimbile, F., & Schaalma, H. P. (2011). Justify your love: testing an online STI-risk communication intervention designed to promote condom use and STI-testing. *Psychology and Health, 26*, 205-221.
76. Milhausen, R. R., Wood, J., Sanders, S. A., Crosby, R. A., Yarber, W. L., & Graham, C. A. (2011). A novel, self-guided, home-based intervention to promote condom use among young men: A pilot study. *Journal of Men's Health, 8*, 274-281.
77. Miller, K. S., Lin, C. Y., Poulsen, M. N., Fasula, A., Wyckoff, S. C., Forehand, R., ... Armistead, L. (2011). Enhancing HIV communication between parents and children: Efficacy of the parents matter! program. *AIDS Education and Prevention, 23*, 550-563.

78. Montanaro, E. A., & Bryan, A. D. (2014). Comparing theory-based condom interventions: health belief model versus theory of planned behavior. *Health Psychology, 33*, 1251-1260.
79. Mouttapa, M., Watson, D. W., McCuller, W. J., Reiber, C., Tsai, W., & Plug, M. (2010). HIV prevention among incarcerated male adolescents in an alternative school setting. *Journal of Correctional Health Care, 16*, 27-38.
80. Nelas, P., Aparicio, G., Duarte, J., Ferreira, M., Albuquerque, C., & Fernandes, C. (2013). Sexual education in school context: The efficiency of a training intervention. *Atencion Primaria, 45*, 208-215.
81. Neumann, M. S., O'Donnell, L., Doval, A. S., Schillinger, J., Blank, S., Ortiz-Rios, E., ... O'Donnell, C. R. (2011). Effectiveness of the VOICES/VOCES sexually transmitted disease/human immunodeficiency virus prevention intervention when administered by health department staff: Does it work in the "real world"? *Sexually Transmitted Diseases, 38*, 133-139.
82. Noar, S. M. (2008). Behavioral interventions to reduce HIV-related sexual risk behavior: Review and synthesis of meta-analytic evidence. *AIDS and Behavior, 12*(3), 335-3.
83. Nydegger, L. A., Keeler, A. R., Hood, C., Siegel, J. T., & Stacy, A. W. (2013). Effects of a one-hour intervention on condom implementation intentions among drug users in Southern California. *AIDS Care, 25*, 1586-1591.
84. O'Donnell, L., Stueve, A., Joseph, H. A., & Flores, S. (2014). Adapting the VOICES HIV behavioral intervention for Latino men who have sex with men. *AIDS and Behavior, 18*, 767-775.
85. O'Grady, M. A., Wilson, K., & Harman, J. J. (2009). Preliminary findings from a brief, peer-led safer sex intervention for college students living in residence halls. *Journal of Primary Prevention, 30*, 716-731.

86. Ota, E., Wariki, W. M., Mori, R., Hori, N., & Shibuya, K. (2011). Behavioral interventions to reduce the transmission of HIV infection among sex workers and their clients in high-income countries. *Cochrane Database of Systematic Reviews*, *12*, CD006045.
87. Pantin, M., Leonard, N. R., & Hagan, H. (2013). Sexual HIV/HSV-2 risk among drug users in New York City: an HIV testing and counseling intervention. *Substance Use & Misuse*, *48*, 438-445.
88. Peskin, M. F., Shegog, R., Markham, C. M., Thiel, M., Baumler, E. R., Addy, R. C., ...Emery, S. T. (2015). Efficacy of It's Your Game-Tech: A computer-based sexual health education program for middle school youth. *Journal of Adolescent Health*, *56*, 515-521.
89. Prado, G., Pantin, H., Huang, S., Cordova, D., Tapia, M. I., Velazquez, M. R., ...Jimenez, G. L. (2012). Effects of a family intervention in reducing HIV risk behaviors among high-risk Hispanic adolescents: A randomized controlled trial. *Archives of Pediatrics and Adolescent Medicine*, *166*, 127-133.
90. Read, S. J., Miller, L. C., Appleby, P. R., Nwosu, M. E., Reynaldo, S., Lauren, A., & Putcha, A. (2006). Socially optimized learning in a virtual environment: Reducing risky sexual behavior among men who have sex with men. *Human Communication Research*, *32*, 1-34.
91. Rhodes, S.D, Hergenrather, K. C., Bloom, F. R., Leichliter, J. S., & Montano, J. (2009). Outcomes from a community-based, participatory lay health adviser HIV/STD prevention intervention for recently arrived immigrant Latino men in rural North Carolina. *AIDS Education and Prevention*, *21*, 103-108.
92. Rhodes, S. D., McCoy, T. P., Vissman, A. T., DiClemente, R. J., Duck, S., Hergenrather, K. C., ...Eng, E. (2011). A randomized controlled trial of a culturally congruent intervention to increase condom use and HIV testing among heterosexually active immigrant Latino men. *AIDS and Behavior*, *15*, 1764-1775.

93. Rios-Ellis, B., Espinoza, L., Bird, M., Garcia, M., D'Anna, L. H., Bellamy, L., & Scolari, R. (2010). Increasing HIV-related knowledge, communication, and testing intentions among latinos: Protege tu Familia: Hazte la Prueba. *Journal of Health Care for the Poor and Underserved, 21*, 148-168.
94. Roberto, A. J., Zimmerman, R. S., Carlyle, K. E., & Abner, E. L. (2007). A computer-based approach to preventing pregnancy, STD, and HIV in rural adolescents. *Journal of Health Communication, 12*, 53-76.
95. Sanchez, J., De La Rosa, M., & Serna, C. A. (2013). Project Salud: Efficacy of a community-based HIV prevention intervention for Hispanic migrant workers in south Florida. *AIDS Education and Prevention, 25*, 363-375.
96. Scott-Sheldon, L. A, Fielder, R. L., & Carey, M. P. (2010). Sexual risk reduction interventions for patients attending sexually transmitted disease clinics in the United States: A meta-analytic review, 1986 to early 2009. *Annals of Behavioral Medicine, 40*, 191-204.
97. Scott-Sheldon, L. A. J., Huedo-Medina, T. B., Warren, M. R., Johnson, B. T., & Carey, M. P. (2011) Efficacy of behavioral interventions to increase condom use and reduce sexually transmitted infections: A meta-analysis, 1991 to 2010. *Journal of Acquired Immune Deficiency Syndromes, 58*, 489-498.
98. Slesnick, N., & Kang M. J. (2008). The impact of an integrated treatment on HIV risk behavior among homeless youth: a randomized controlled trial. *Journal of Behavioral Medicine, 31*, 45-59.
99. Somerville GG, Diaz S, Davis S, Coleman KD, Taveras S. (2006). Adapting the Popular Opinion Leader intervention for Latino young migrant men who have sex with men. *AIDS Education and Prevention, 18*, 137-148.

100. Spoth, R., Clair, S., & Trudeau, L. (2014). Universal family-focused intervention with young adolescents: Effects on health-risking sexual behaviors and STDs among young adults. *Prevention Science, 15*, S47-S58.
101. Stanton, B., Harris, C., Cottrell, L., Li, X., Gibson, C., Guo, J., ...Burns, J. (2006). Trial of an urban adolescent sexual risk-reduction intervention for rural youth: A promising but imperfect fit. *Journal of Adolescent Health, 38*, 55-e25.
102. Swanton, R., Allom, V., & Mullan, B. (2015). A meta-analysis of the effect of new-media interventions on sexual-health behaviours. *Sexually Transmitted Infections, 91*, 14-20.
103. Sznitman, S., Vanable, P. A., Carey, M. P., Hennessy, M., Brown, L. K., Valois, R. F., ...Romer, D. (2011). Using culturally sensitive media messages to reduce HIV-associated sexual behavior in high-risk African American adolescents: Results from a randomized trial. *Journal of Adolescent Health, 49*, 244-251.
104. Thurstone, C., Riggs, P. D., Klein, C., & Mikulich-Gilbertson, S. K. (2007). A one-session human immunodeficiency virus risk-reduction intervention in adolescents with psychiatric and substance use disorders. *Journal of the American Academy of Child & Adolescent Psychiatry, 46*, 1179-1186.
105. Trobst, K. K., Wiggins, J. S., Costa, Jr., P. T., Herbst, J. H., McCrae, R. R., & Masters, III, H. L. (2000). Personality psychology and problem behaviors: HIV risk and the Five-Factor Model. *Journal of Personality, 68*, 1233-1252.
106. Villarruel, A. M. Jemmott III, J. B., & Jemmott, L. S. (2006). A randomized controlled trial testing an HIV prevention intervention for Latino youth. *Archives of Pediatrics and Adolescent Medicine, 160*, 772-777.
107. von Sadvoszky, V., Draudt, B., & Boch, S. (2014). A systematic review of reviews of behavioral interventions to promote condom use. *Worldviews on Evidence-Based Nursing, 11*, 107-117.

108. Wang, K., Brown, K., Shen, S-Y., & Tucker, J. (2011). Social network-based interventions to promote condom use: A systematic review. *AIDS and Behavior, 15*, 1298-1308.
109. Williams, M. L., Bowen, A. M., Timpson, S.C., Ross, M. W., Atkinson, J. S. (2005). HIV prevention and street-based male sex workers: An evaluation of brief interventions. *AIDS Education and Prevention, 18*, 204-215.
110. Wilton, L., Herbst, J. H., Coury-Doniger, P., Painter, T. M., English, G., Alvarez, M. E., ...Carey, J. W. (2009). Efficacy of an HIV/STI prevention intervention for black men who have sex with men: Findings from the many men, many voices (3MV) project. *AIDS and Behavior, 13*, 532-544.
111. Wu, E., El-Bassel, N., McVinney, L. D., Hess, L., Remien, R. H., Charania, M., & Mansergh, G. (2011). Feasibility and promise of a couple-based HIV/STI preventive intervention for methamphetamine-using, black men who have sex with men. *AIDS and Behavior, 15*, 1745-1754.
112. Wyatt, G. E., Williams, J. K., Gupta, A., & Malebranche, D. (2012). Are cultural values and beliefs included in U.S. based HIV interventions? *Preventive Medicine, 55*, 362-370.
113. Zule, W. A., Bobashev, G. V., Reif, S. M., Poulton, W., Coomes, C. M., & Wechsberg, W. M. (2013). Results of a pilot test of a brief computer-assisted tailored HIV prevention intervention for use with a range of demographic and risk groups. *AIDS and Behavior, 17*, 3045-3058.
114. Armstrong, B., Kalmuss, D., Franks, M., Hecker, G., & Bell, D. (2010). Creating teachable moments: A clinic-based intervention to improve young men's sexual health. *American Journal of Men's Health, 4*, 135-144.
115. Aronson, R. E., Rulison, K. L., Graham, L. F., Pulliam, R. M., McGee, W. L., Labban, J. D., ...Rhodes, S. D. (2013). Brothers Leading Healthy Lives: Outcomes from the pilot testing



of a culturally and contextually congruent HIV prevention intervention for black male college students. *AIDS Education and Prevention*, 25, 376-393.

116. Bowen, A. M., Williams, M. L., Daniel, C. M., & Clayton, S. (2008). Internet based HIV prevention research targeting rural MSM: feasibility, acceptability, and preliminary efficacy. *Journal of Behavioral Medicine*, 31, 463-477.

117. Lyles, C. M., Kay, L. S., Crepaz, N., Herbst, J. H., Passin, W. F., Kim, A. S., ...Mullins, M. M. (2007). Best-evidence interventions: Findings from a systematic review of HIV behavioral interventions for US populations at high risk, 2000-2004. *American Journal of Public Health*, 97, 133-143.

118. Noar, S. M., Black, H. G., & Pierce, L. B. (2009). Efficacy of computer technology-based HIV prevention interventions: a meta-analysis. *AIDS*, 23, 107-115.

119. Norton, W. E., Fisher, J. D., Amico, K. R., Dovidio, J. F., & Johnson, BT. (2012). Relative efficacy of a pregnancy, sexually transmitted infection, or human immunodeficiency virus prevention-focused intervention on changing sexual risk behavior among young adults. *Journal of American College Health*, 60, 574-582.

120. Protogerou, C., & Johnson, B. T. (2014). Factors underlying the success of behavioral HIV-prevention interventions for adolescents: A meta-review. *AIDS and Behavior*, 18, 1847-1863.

121. Sanderson, C. A., & Yopyk, D. J. A. (2007). Improving condom use intentions and behavior by changing perceived partner norms: An evaluation of condom promotion videos for college students. *Health Psychology*, 26, 481-487.

122. Scott-Sheldon, L. A. J., & Johnson, B. T. (2006). Eroticizing creates safer sex: A research synthesis. *Journal of Primary Prevention*, 27, 619-640.

123. Tobin, K. E., Kuramoto, S. J., Davey-Rothwell, M. A., & Latkin, C. A. (2011). The STEP into Action study: a peer-based, personal risk network-focused HIV prevention intervention with injection drug users in Baltimore, Maryland. *Addiction, 106*, 366-375.