References

- UNAIDS 2018 HIV estimates.
- Combination HIV prevention: tailoring and coordinating biomedical, behavioural and structural strategies to reduce new HIV infections. A UNAIDS discussion paper. Geneva: UNAIDS; 2010.
- 3. Guidelines on provider-initiated HIV testing and counselling in health facilities. Geneva: World Health Organization; 2007.
- 4. Consolidated guidelines on HIV testing services. Geneva: World Health Organization; 2015.
- 5. Fonner V, Denison J, Kennedy CE, O'Reilly K, Sweat M. Voluntary counseling and testing (VCT) for changing HIV-related risk behavior in developing countries. Cochrane Database Syst Rev. 2012;9:CD001224.
- 6. Denison JA, O'Reilly KR, Schmid GP, Kennedy CE, Sweat MD. HIV voluntary counselling and testing and behavioral risk reduction in developing countries: a meta-analysis, 1990–2005. AIDS Behav. 2008 May;12(3):363-73. Epub 2007 Dec 27.
- 7. Corbett E, Makamure B, Cheung YB, Dauya E, Matambo R, Bandason T et al. HIV incidence during a cluster-randomized trial of two strategies providing voluntary counselling and testing at a workplace, Zimbabwe. AIDS. 2007;21(4):483-9.
- 8. Matuvo JK, Gray RH, Makumbi F, Wawer MJ, Serwadda D, Kigozi G et al. Voluntary HIV counselling and testing acceptance, sexual risk behavior and HIV incidence in Rakai, Uganda. AIDS. 2005;19(5):503-11.
- Machekano RW, McFarland W, Mbizvo MT, Bassett MT, Katzenstein D, Latif AS et al. Impact of HIV counselling and testing on HIV seroconversion and reported STD incidence among male factory workers in Harare, Zimbabwe. Cent Afr J Med. 1998;44(4):98-102.
- 10. Arthur GV, Nduba V, Forsythe S, Mutemi R, Odhiambo J, Gilks C et al. Behaviour change in clients of health centre-based voluntary counselling and testing services in Kenya. Sex Transm Infect. 2007;83(7):541-6.
- Rosenberg NE, Hauser BM, Ryan J, Miller WC. The effect of HIV counselling and testing on HIV acquisition in sub-Saharan Africa: a systematic review. Sex Transm Infect. 2016 Aug 16. pii: sextrans-2016-052651. doi: 10.1136/sextrans-2016-052651
- 12. Guidelines on couples HIV testing and counseling—including antiretroviral therapy for treatment and prevention in serodiscordant couples. Geneva: World Health Organization; 2012.

- 13. The Voluntary HIV-1 Counseling and Testing Efficacy Study Group. Efficacy of voluntary HIV-1 counselling and testing in individuals and couples in Kenya, Tanzania, and Trinidad: a randomised trial. Lancet. 2000;356:103-12.
- 14. Allen S, Meinzen-Derr J, Kautzman M, Zulu I, Trask S, Fideli U et al. Sexual behavior of HIV discordant couples after HIV counseling and testing. AIDS. 2003;17(5):733-40.
- 15. Rosenberg NE, Pettifor AE, De Bruyn G, Westreich D, Delany-Moretlwe S, Behets F et al. HIV testing and counseling leads to immediate consistent condom use among South African stable HIV-discordant couples. J Acquir Immune Defic Syndr. 2013;62(2):226-33.
- 16. Coates TJ, Kulich M, Celentano DD, Zelaya CE, Chariyalertsak S, Chingono A et al. Effect of community-based voluntary counselling and testing on HIV incidence and social and behavioural outcomes (NIMH Project Accept; HPTN 043): a cluster-randomised trial. Lancet Glob Health. 2014;2(5):e267-77.
- 17. Doherty T, Tabana H, Jackson D, Naik R, Zembe W, Lombard C et al. Effect of home based HIV counselling and testing intervention in rural South Africa: cluster randomised trial. BMJ. 2013;346:f3481. doi: https://doi.org/10.1136/bmj.f3481
- 18. Kennedy C, Fonner VA, Sweat MD, Okero FA, Baggaley R, O'Reilly KR et al. Provider-initiated HIV testing and counseling in low- and middle-income countries: a systematic review. AIDS Behav. 2013;17:1571-90.
- van't Hoog AH, Mbori-Ngacha DA, Marum LH, Otieno JA, Misore AO, Nganga LW et al. Preventing mother-to-child transmission of HIV in Western Kenya: operational issues. J Acquir Immune Defic Syndr. 2005 Nov 1;40(3):344-9.
- 20. Chandisarewa W, Stranix-Chibanda L, Chirapa E, Miller A, Simoyi M, Mahomva A et al. Routine offer of antenatal HIV testing ("opt-out" approach) to prevent mother-to-child transmission of HIV in urban Zimbabwe. Bull World Health Organ. 2007;85(11):843-50.
- 21. Stringer JSA, Sinkala M, Stout JP, Goldenberg RL, Acosta EP, Chapman V et al. Comparison of two strategies for administering nevirapine to prevent perinatal HIV transmission in high-prevalence, resource-poor settings. J Acquir Immune Defic Syndr. 2003;32(5):506-13.
- 22. Allen S, Serufilira A, Bogaerts J, Van de Perre P, Nsengumuremyi F, Lindan C et al. Confidential HIV testing and condom promotion in Africa. Impact on HIV and gonorrhea rates. JAMA. 1992;268:3338-43.
- 23. Desgrées-Du-Loû A, Brou H, Djohan G, Becquet R, Ekouevi DK, Zanou B et al. Beneficial effects of offering prenatal HIV counselling and testing on developing a HIV preventive attitude among couples. Abidjan, 2002–2005. AIDS Behav. 2009;13(2):348-55.
- 24. Xu F, Kilmarx PH, Supawitkul S, Manopaiboon C, Yanpaisarn S, Limpakarnjanarat K et al. Incidence of HIV-1 infection and effects of clinic-based counseling on HIV preventive behaviors among married women in northern Thailand. J Acquir Immun Defic Syndr. 2002;29(3):284-8.

- 25. Kiene SM, Bateganya M, Wanyenze R, Lule H, Nantaba H, Stein MD et al. Initial outcomes of provider-initiated routine HIV testing and counseling during outpatient care at a rural Ugandan hospital: risky sexual behavior, partner HIV testing, disclosure and HIV care seeking. AIDS Patient Care STDS. 2010;24:117-26.
- 26. Bentley ME, Spratt K, Shepherd ME, Gangakhedkar RR, Thilikavathi S, Bollinger RC et al. HIV testing and counseling among men attending sexually transmitted disease clinics in Pune, India: changes in condom use and sexual behavior over time. AIDS. 1998;12:1869-77.
- 27. Kamb ML, Fishbein M, Douglas JM Jr, Rhodes F, Rogers J, Bolan G et al. Efficacy of risk-reduction counseling to prevent human immunodeficiency virus and sexually transmitted diseases. JAMA. 1998;280(13):1161-7.
- 28. Metsch LR, Feaster DJ, Gooden L, Schackman BR, Matheson T, Das M et al. Effect of risk-reduction counseling with rapid HIV testing on risk of acquiring sexually transmitted infections: the AWARE randomized clinical trial. JAMA. 2013;310:1701-10.
- 29. Dilley JW, Woods WJ, Sabatino J, Lihatsh T, Adler B, Casey S et al. Changing sexual behavior among gay male repeat testers for HIV: a randomized, controlled trial of a single-session intervention. J Acquir Immune Defic Syndr. 2002;30(2):177-86.
- 30. Koblin B, Chesney M, Coates T; EXPLORE Study Team. Effects of a behavioral intervention to reduce acquisition of HIV infection among men who have sex with men: the EXPLORE randomised controlled study. Lancet. 2004;364:41-50.
- 31. Metsch LR, Feaster DJ, Gooden L, Matheson T, Mandler RN, Haynes L et al. Implementing rapid HIV testing with or without risk-reduction counseling in drug treatment centers: results of a randomized trial. Am J Public Health. 2012;102:1160-7.
- 32. Schackman BR, Metsch LR, Colfax GN, Leff JA, Wong A, Scott CA et al. The cost-effectiveness of rapid HIV testing in substance abuse treatment: results of a randomized trial. Drug Alcohol Depend. 2013;128:90-7.
- 33. Anaya HD, Hoang T, Golden JF, Goetz MB, Gifford A, Bowman C et al. Improving HIV screening and receipt of results by nurse-initiated streamlined counseling and rapid testing. J Gen Intern Med. 2008;23(6):800-7.
- 34. Figueroa C, Johnson C, Verster A, Baggaley R. Attitudes and acceptability on HIV self-testing among key populations: a literature review. AIDS Behav. 2015 Nov;19(11):1949-65.
- 35. Johnson CC, Kennedy C, Fonner V, Siegfried N, Figueroa C, Dalal S et al. Examining the effects of HIV self-testing compared to standard HIV testing services: a systematic review and meta-analysis. J Int AIDS Soc. 2017;20(1):21594.
- 36. Masters SH, Agot K, Obonyo B, Napierala Mavedzenge S, Maman S, Thirumurthy H. Promoting partner testing and couples testing through secondary distribution of HIV self-tests: a randomized clinical trial. Plos Med. 2016;13(11):e1002166.

The effectiveness of behavioural interventions to prevent HIV. A compendium of evidence.

- 37. Wang Z, Lau J, Ip M, Ho S. A randomized controlled trial evaluating efficacy of promoting a home-based HIV self-testing with online counseling on increasing HIV testing among men who have sex with men. AIDS Behav. 2018;22(1):190-201.
- 38. Jamil MS, Prestage G, Fairley CK, Grulich AE, Smith KS, Chen M et al. Effect of availability of HIV self-testing on HIV testing frequency in gay and bisexual men at high risk of infection (FORTH): a waiting-list randomised controlled trial. Lancet HIV. 2017;4(6):e241-50.
- 39. Katz D, Golden M, Hughes J, Farquhar C, Stekler J. HIV self-testing increases HIV testing frequency in high-risk men who have sex with men: a randomized controlled trial. J Acquir Immune Defic Syndr. 2018;78(5):505-12.
- 40. Balan IC, Carballo-Diéguez A, Frasca T, Dolezal C, Ibitoye M. The impact of rapid HIV home test use with sexual partners on subsequent sexual behavior among men who have sex with men. AIDS Behav. 2014;18:254-62.
- 41. Kumwenda M, Munthali A, Phiri M, Mwale D, Gutteberg T, MacPherson E et al. Factors shaping initial decision-making to self-test amongst cohabiting couples in urban Blantyre, Malawi. AIDS Behav. 2014;18(Suppl 4):S396-404.
- 42. Marks G, Crepaz N, Senterfitt JW, Janssen RS. Meta-analysis of high-risk sexual behaviour in persons aware and unaware they are infected with HIV in the United States. J Acquir Immune Defic Syndr. 2005;39:446-53.
- 43. Turner A, Miller WC, Padian NS, Kaufman JS, Behets FM, Chipato T et al. Unprotected sex following HIV testing among women in Uganda and Zimbabwe: short- and long-term comparisons with pre-test behaviour. Int J Epidemiol. 2009;38:997-1007.
- 44. Venkatesh K, de Bruyn G, Mayer KH, Cheng H, Blanchard K, Ramjee G et al. Changes in sexual risk behavior before and after HIV seroconversion in southern African women enrolled in a HIV prevention trial. J Acquir Immune Defic Syndr. 2011;57:435-41.
- 45. McClelland R, Hassan WM, Lavreys L, Richardson BA, Mandaliya K, Ndinya-Achola J et al. HIV-1 acquisition and disease progression are associated with decreased high-risk sexual behaviour among Kenyan female sex workers. AIDS. 2006;20:1969-73.
- 46. Rietmeijer CA. Risk reduction counselling for prevention of sexually transmitted infections: how it works and how to make it work. Sex Transm Infect. 2007;83:2-9.
- 47. Hao C, Huan X, Yan H, Yang H, Guan W, Xu X et al. A randomized controlled trial to evaluate the relative efficacy of enhanced versus standard voluntary counseling and testing on promoting condom use among men who have sex with men in China. AIDS Behav. 2012;16(5):1138-48.
- 48. Yang C, Tobin K, Latkin C. Perceived serosorting of injection paraphernalia sharing networks among injection drug users in Baltimore, MD. AIDS Behav. 2001;15:16-21.

- 49. Smith B, Jewett A, Burt RD, Zibbell JE, Yartel AK, DiNenno E. "To share or not to share?" Serosorting by hepatitis C status in the sharing of drug injection equipment among NHBS-IDU2 participants. J Infect Dis. 2013;208:1934-42.
- 50. Weller SC, Davis-Beaty K. Condom effectiveness in reducing heterosexual HIV transmission. Cochrane Database Syst Rev. 2002;1:CD003255.
- 51. Smith DK, Herbst JH, Zhang X, Rose CE. Condom effectiveness for HIV prevention by consistency of use among men who have sex with men in the United States. J Acquir Immune Defic Syndr. 2015;68(3):337-44.
- 52. Gallo M, Kilbourne-Brook M, Coffey PS. A review of the effectiveness and acceptability of the female condom for dual protection. Sexual Health. 2012;9:18-26.
- 53. Rehle TM, Hallett TB, Shisana O, Pillay-van Wyk V, Zuma K, Carrara H et al. A decline in new HIV infections in South Africa: estimating HIV incidence from three national HIV surveys in 2002, 2005 and 2008. PLoS One. 2010;5(6):e11094.
- 54. Charania MR, Crepaz N, Guenther-Gray C, Henny K, Liau A, Willis LA et al. Efficacy of structural-level condom distribution interventions: a meta-analysis of U.S. and international studies, 1998–2007. AIDS Behav. 2011;15(7):1283-97.
- 55. The business case for female condoms. Global Health Visions: New York; 2014.
- 56. Johnson LJ, Hallett TB, Rehle TM, Dorrington RE. The effect of changes in condom usage and antiretroviral treatment coverage on human immunodeficiency virus incidence in South Africa: a model-based analysis. J R Soc Interface. 2012;9(72):1544-54.
- 57. Phillips AN, Cambiano V, Nakagawa F, Brown AE, Lampe F, Rodger A et al. Increased HIV incidence in men who have sex with men despite high levels of ART-induced viral suppression: analysis of an extensively documented epidemic. PLoS ONE. 2013;8(2):e55312.
- 58. World Health Organization, United Nations Population Fund. Male latex condom: specification, prequalification and guidelines for procurement. Geneva: World Health Organization; 2013.
- 59. Carey F, Lytle CD, Cyr WH. Implications of laboratory tests of condom integrity. Sex Transm Dis. 1999;26(4):216-20.
- 60. Scientific evidence on condom effectiveness for sexually transmitted disease (STD) prevention. Bethesda (MD): National Institute of Allergy and Infectious Diseases; 2000.
- 61. Worth D. Sexual decision-making and AIDS: why condom promotion among vulnerable women is likely to fail. Stud Fam Plan. 1989;20:297-307.
- 62. Liu H, Morisky DE, Lin X, Ma E, Jiang B, Yin Y. Bias in self-reported condom use: association between over-reported condom use and syphilis in a three-site study in China. AIDS Behav. 2016;20(6):1343-52.

The effectiveness of behavioural interventions to prevent HIV. A compendium of evidence.

- 63. Detels R, English P, Visscher BR, Jacobson L, Kingsley LA, Chmiel JS et al. Seroconversion, sexual activity, and condom use among 2915 HIV seronegative men followed for up to 2 years. J Acquir Immune Defic Syndr. 1989;2:77-83.
- 64. Johnson WD, O'Leary A, Flores SA. Per-partner condom effectiveness against HIV for men who have sex with men. AIDS. 2018;32(11):1499-505).
- 65. De Vincenzi I. A longitudinal study of human immunodeficiency virus transmission by heterosexual partners. European Study Group on Heterosexual Transmission of HIV. N Engl J Med. 1994;331:341-6.
- 66. How to use a femidom. In: Terrance Higgins Trust [website]. London (UK): Terrence Higgins Trust; 8 June 2016 (http://www.tht.org.uk/sexual-health/Improving-your-sexual-health/Condoms/Using-a-femidom, accessed 3 April 2018).
- 67. Post-exposure prophylaxis. In: Terrance Higgins Trust [website]. London (UK): Terrence Higgins Trust; 7 April 2016 (http://www.tht.org.uk/sexual-health/about-hiv/post-exposure-prophylaxis, accessed 3 April 2018).
- 68. Pinkerton SD, Abramson PR. Effectiveness of condoms in preventing HIV transmission. Soc Sci Med. 1997;44(9):1303-12.
- 69. Ahmed S, Lutalo T, Wawer M, Serwadda D, Sewankambo NK, Nalugoda F et al. HIV incidence and sexually transmitted disease prevalence associated with condom use: a population study in Rakai, Uganda. AIDS. 2001 Nov 9;15(16):2171-9.
- 70. Stoneburner RL, Low-Beer D. Population-level HIV declines and behavioural risk avoidance in Uganda. Science. 2004;304(5671):714-8.
- 71. Halperin D, Mugurungi O, Hallett TB, Muchini B, Campbell B, Magure T et al. A surprising prevention success: why did the HIV epidemic decline in Zimbabwe? PLoS Med. 2011;8(2):e1000414.
- 72. Rojanapithayakorn W. The 100% condom use programme in Asia. Reprod Health Matters. 2008;14(28):41-52.
- 73. Kumar R, Jha P, Arora P, Mony P, Bhatia P, Millson P et al. Trends in HIV-1 in young adults in South India from 2000 to 2004: a prevalence study. Lancet. 2006;367:1164-72.
- 74. The gap report. Geneva: UNAIDS; 2014.
- 75. Frasca T. AIDS in Latin America. New York: Palgrave Macmillan (US); 2005.
- 76. Catania J, Coates TJ, Stall R, Bye L, Kegeles SM, Capell F et al. Changes in condom use among homosexual men in San Francisco. Health Psychol. 1991;10(3):190-9.
- 77. Hunt AJ, Weatherburn P, Hickson FC, Davies PM, McManus TJ, Coxon AP. Changes in condom use by MSM. AIDS Care. 1993;5(4):439-48.

- 78. Michielsen K, Chersich MF, Luchters S, De Koker P, Van Rossem R, Temmerman M. Effectiveness of HIV prevention for youth in sub-Saharan Africa: a systematic review of randomized and non-randomized studies. AIDS. 2010;25(4):1193-1202.
- 79. Foss AM, Hossain M, Vickerman PT, Watts CH. A systematic review of published evidence on intervention impact on condom use in sub-Saharan Africa and Asia. Sex Transm Infect. 2007:83(7):510-6.
- 80. Halli SS, Ramesh BM, O'Neil J, Moses S, Blanchard JF. The role of collectives in STI and HIV/AIDS prevention work among female sex workers in Karnataka, India. AIDS Care. 2006;18(7):739-49.
- 81. Adamchak S, Janowitz B, Liku J, Munyambanza E, Grey T, Keyes E. Study of family planning and HIV integrated services in five countries: final report. Research Triangle Park (NC): Family Health International; 2010.
- 82. Penman-Aguilar A, Hall J, Artz L, Crawford MA, Peacock N, van Olphen J et al. Presenting the female condom to men: a dyadic analysis of effect of the woman's approach. Women Health. 2002;35(1):37-51.
- 83. Ankrah EM, Attika SA. Adopting the female condom in Kenya and Brazil: perspectives of women and men. A synthesis. Arlington (VA): Family Health International; 1997.
- 84. World Health Organization, United Nations Office for Disarmament Affairs, UNAIDS. Effectiveness of interventions to manage HIV in prisons—provision of condoms and other measures to decrease sexual transmission. Geneva: World Health Organization; 2007.
- 85. Kennedy C, Medley AM, Sweat MD, O'Reilly KR. Behavioural interventions for HIV-positive prevention in developing countries: a systematic review and meta-analysis. Bull World Health Org. 2010;88:615-23.
- 86. Smoak ND, Scott-Sheldon LA, Johnson BT, Carey MP. Sexual risk reduction interventions do not inadvertently increase the overall frequency of sexual behavior: a meta-analysis of 174 studies with 116,735 participants. J Acquir Immune Defic Syndr. 2006;41(3):374-84.
- 87. Comprehensive condom programming: a guide for resource mobilization and country programming. New York: United Nations Population Fund; 2011.
- 88. Reece M, Herbenick D, Dodge B. Penile dimensions and men's perceptions of condom fit and feel. Sex Transm Infect. 2009;85:127-31.
- 89. Crosby RA, Yarber WL, Sanders SA, Graham CA, McBride K, Milhausen RR et al. Men with broken condoms. Who and why? Sex Transm Infect. 2007 Feb;83(1):71-5.
- 90. Schiller B. 8 amazing condom concepts that actually feel good, funded by the Gates Foundation. In: Fast Company [Internet]. 20 November 2013 (https://www.fastcompany.com/3021941/8-amazing-condom-concepts-that-actually-feel-good-funded-by-the-gates-foundation, accessed 3 April 2018).

- 91. Braunstein S, Van de Wijgert J. Preferences and practices related to vaginal lubrication: implications for microbicide acceptability and clinical testing. J Womens Health (Larchmt). 2005;14(5):324-33.
- 92. Albert AE, Warner DL, Hatcher RA, Trussell J, Bennett C. Condom use among female commercial sex workers in Nevada's legal brothels. Am J Public Health. 1995;85:1514-20.
- 93. Javanbakht M, Murphy R, Gorbach P, LeBlanc MA, Pickett J. Preference and practices relating to lubricant use during anal intercourse: implications for rectal microbicides. Sex Health. 2010;7:193-8.
- 94. Golombok S, Harding R, Sheldon J. An evaluation of a thicker versus a standard condom with MSM. AIDS. 2001;15(2):245-50.
- 95. Wang L, Schnaare RL, Dezzutti C, Anton PA, Rohan LC. Rectal microbicides: clinically relevant approach to the design of rectal specific placebo formulations. AIDS Res Ther. 2011;8:12.
- 96. Dezzutti CS, Brown ER, Moncla B, Russo J, Cost M, Wang L et al. Is wetter better? An evaluation of over-the-counter lubricant gels for safety and anti-HIV-1 activity. PLoS ONE. 2012;7(11):e48328.
- 97. Use and procurement of additional lubricants for male and female condoms: WHO/UNFPA/FHI360. Advisory note. Geneva: WHO; 2012.
- 98. Sweat MD, Denison J, Kennedy C, Tedrow V, O'Reilly K. Effects of condom social marketing on condom use in developing countries: a systematic review and meta-analysis, 1990–2010. Bull World Health Organ. 2012;90:613-22A.
- 99. Babalola S, Figueroa ME, Krenn S. Association of mass media communication with contraceptive use in sub-Saharan Africa: a meta-analysis of Demographic and Health Surveys. J Health Commun. 2017;22:11:885-95.
- 100. Telles Dias PR, Souto K, Page-Shafer K. Long-term female condom use among vulnerable populations in Brazil. AIDS Behav. 2006;10:S67-75.
- Dowdy DW, Sweat MD, Holtgrave DR. Country-wide distribution of the nitrile female condom (FC2) in Brazil and South Africa: a cost-effectiveness analysis. AIDS. 2006;20(16):2091-8.
- 102. UK Department for International Development (DfID). Making markets for health services work better: the contribution of social marketing. Notes of a meeting, April 22–23, 2004. London: DfID Health Systems Resource Centre; 2004.
- 103. Honeyman SW. One size doesn't fit all: why different implementation models are needed for different social marketing health interventions. PSP-One Online Social Marketing Conference, 10–17 March 2008.
- 104. Chapman S, Jafa K, Longfield K, Vielot N, Buszin J, Ngamkitpaiboon L et al. Condom social marketing in sub-Saharan Africa and the total market approach. Sex Health. 2012;9(1):44-50.

- 105. Creese A, Floyd K, Alban A, Guinness L. Cost-effectiveness of HIV/AIDS interventions in Africa: a systematic review of the evidence. Lancet. 2002;359(9318):1635-43.
- 106. Katz MH, Schwarcz SK, Kellogg TA, Klausner JD, Dilley JW, Gibson S et al. Impact of highly active antiretroviral treatment on HIV seroincidence among men who have sex with men: San Francisco. Am J Public Health. 2002;92(3):388-94.
- 107. Centers for Disease Control and Prevention. HIV testing and risk behaviours among gay, bisexual and other men who have sex with men—United States. MMWR. 2013;62(47):958-62.
- 108. Wellings K. Evaluating AIDS public education in Europe: a cross-national comparison. In: Hornik RC, editor. Public health communication: evidence for behavior change. Hillsdale (NJ): Lawrence Erlbaum Associates; 2002:131-46.
- 109. Noar SM, Zimmerman RS. Health behavior theory and cumulative knowledge regarding health behaviours: are we moving in the right direction? Health Educ Res. 2005;20(3):275-90.
- 110. Bertrand JT, O'Reilly K, Denison J, Anhang R, Sweat M. Systematic review of the effectiveness of mass communication programs to change HIV/AIDS-related behaviors in developing countries. Health Educ Res. 2006;21:567-97.
- 111. Freimuth VS, Hammond SL, Edgar T, Monahan JL. Reaching those at risk: a content-analytic study of AIDS PSAs. Communication Research. 1990;17(6):775-91.
- 112. Green EC, Halperin DT, Nantulya V, Hogle JA. Uganda's HIV prevention success: the role of sexual behavior change and the national response. AIDS Behav. 2006;10(4):335-46.
- 113. Slavin S, Batrouney C, Murphy D. Fear appeals and treatment side-effects: an effective combination for HIV prevention? AIDS Care. 2007 Jan;19(1):130-7.
- LaCroix JM, Snyder LB, Huedo-Medina TB, Johnson BT. Effectiveness of mass media interventions for HIV prevention, 1986–2013: a meta-analysis. J Acquir Immune Defic Syndr. 2014;66:S329-40.
- 115. Piotrow PT, Kincaid DL, Rimon JG II, Rinehart W, Cline RJ. Health communication: lessons from family planning and reproductive health. Westport (CT): Praeger; 1997.
- 116. Noar S, Palmgreen P, Chabot M, Dobransky N, Zimmerman RS. A 10-year systematic review of HIV/AIDS mass communication campaigns: have we made progress? J Health Commun. 2009;14:15-42.
- 117. Bekalu MA, Eggermont S. Advancing HIV/AIDS combination prevention through mass media: a review practices in sub-Saharan Africa. Information Development. 2012;28(3):189-98.
- 118. Head R, Murray J, Sarrassat S, Snell W, Meda N, Ouedraogo M et al. Can mass media interventions reduce child mortality? Lancet. 2015;386(9988):97-100.

- 119. Hutton G, Wyss K, Diekhor YN. Prioritization of prevention activities to combat the spread of HIV/AIDS in resource constrained settings: a cost-effectiveness analysis from Chad, Central Africa. Int J Health Plann Manage. 2003;18:117-36.
- 120. Hogan DR, Baltussen R, Hayashi C, Lauer JA, Salomon JA. Achieving the millennium development goals for health: cost effectiveness analysis of strategies to combat HIV/AIDS in developing countries. BMJ. 2005. doi:10.1136/bmj.38643.368692.68
- 121. Kim YM, Kols A, Nyakauru R, Marangwanda C, Chibatamoto P. Promoting sexual responsibility among young people in Zimbabwe. International Family Planning Perspectives. 2001;27:11-19.
- 122. Ross MW, Chatterjee NS, Leonard L. A community level syphilis prevention programme: outcome data from a controlled trial. Sex Transm Infect. 2004;80:100-4.
- 123. Vaughan PW, Rogers EM, Singhal A, Swalehe RM. Entertainment–education and HIV/AIDS preventions: a field experiment in Tanzania. J Health Commun. 2000;5(Suppl):81-100.
- 124. Xiaoming S, Yong W, Choi K, Lurie P, Mandel J. Integrating HIV prevention education into existing family planning services: results of a controlled trial of a community-level intervention for young adults in rural China. AIDS Behav. 2000;4:103-10.
- 125. Zimmerman RS, Palmgreen P, Noar SM, Lustria MLA, Lu HY, Horosewski ML. Effects of a televised two-city safer sex mass media campaign targeting high sensation-seeking and impulsive decision-making young adults. Health Educ Behav. 2007;34:810-26.
- 126. Schopper D, Doussantousse S, Ayiga N, Ezatirale G, Idro WJ, Homsy J. Village-based AIDS prevention in a rural district in Uganda. Health Policy Plan. 1995;10:171-80.
- 127. Vernon R, Ojeda G, Murad R. Incorporating AIDS prevention activities into family planning organization in Colombia. Stud Fam Plann. 1990;21:335-43.
- 128. Post-intervention survey report: HIV/AIDS/STI knowledge, attitudes and practice (KAP) survey among commercial sex workers, military and youth in Port Loko, Sierra Leone. Refugee Studies Centre. Freetown (Sierra Leone) and Minneapolis: American Refugee Committee International; 2003.
- 129. The One Love campaign in southern Africa. What has been achieved so far? Interim evaluation. Johannesburg: Soul City Institute; 2012.
- 130. Astatke H, Greiner K, Costenbader E, Meyanathan S. Multiple and concurrent sexual partnerships in generalized HIV epidemics in southern and East Africa: a desk review of communication interventions to identify lessons learned for strengthening future HIV behavioral prevention programs. Washington (DC): C-Change Project, FHI 360; 2012.
- 131. Figueroa ME, Kincaid DL. Evaluating the impact of a communication campaign on multiple sex partnerships in Mozambique. Final report. February 2014. Baltimore: USAID, Project SEARCH, Research to Prevention; 2013.

- 132. Sood S, Shefner-Rogers CL, Sengupta M. The impact of a mass media campaign on HIV/AIDS knowledge and behavior change in North India: results from a longitudinal study. Asian J Commun. 2006;16:231-50.
- 133. Tian L, Tang S, Cao W, Zhang K, Li V, Detels R. Evaluation of a web-based intervention for improving HIV/AIDS knowledge in rural Yunnan, China. AIDS. 2007;21(Suppl 8):S137-42.
- 134. Bekalu MA, Eggermont S, Ramanadhan S, Viswanath K. Effect of media use on HIV-related stigma in sub-Saharan Africa: a cross-sectional study. PLoS ONE. 2014;9(6):e100467.
- 135. Kerr JC, Valois RF, DiClemente RJ, Carey MP, Stanton B, Romer D et al. The effects of a mass media HIV-risk reduction strategy on HIV-related stigma and knowledge among African American adolescents. AIDS Patient Care STDS. 2015 Mar;29(3):150-6.
- 136. Vidanapathirana J, Abramson MJ, Forbes A, Fairley C. Mass media interventions for promoting HIV testing. Cochrane Database of Syst Rev. 2005;20:CD004775.
- 137. French RS, Bonell C, Wellings K, Weatherburn P. An exploratory review of HIV prevention mass media campaigns targeting men who have sex with men. BMC Public Health. 2014;14:616.
- 138. Hilliam A, Fraser L, Turner L. HIV Wake-Up campaign. Edinburgh: NHS Health Scotland; 2011.
- 139. Hartfield K, Burt R, Thiede H. "It's the little prick you can deal with"—evaluation of an HIV testing promotion campaign. Washington State: Seattle and King County; 2009.
- 140. Katzman J, Gulati H, Higa DH, Welch Q, Wood RW. A "community manifesto" for gay and bisexual men: an appeal to control HIV/STDs. J Public Health Manage Pract. 2007;13(3):244-51.
- 141. McOwan A, Gilleece Y, Chislett L, Mandalia S. Can targeted HIV testing campaigns alter health-seeking behavior? AIDS Care. 2002;14:385-90.
- 142. Sherr L, Nardone A, Leaity S, Wells H, Mercey D, Elford J. "Try this HIV test"—an evaluation of a mass media campaign targeting homosexual men. Sex Transm Inf. 1999;75(4):273.
- 143. Griffith R, Mandalia S, Beck EJ, Kenny C, Watkins P, Claydon E et al. HIV media campaigns and HIV-1 testing trends at a London genitourinary medicine clinic, 1985–1993. AIDS. 1995;9(12):1367-72.
- 144. Sgaier SK, Reed JB, Thomas A, Njeuhmeli E. Achieving the HIV prevention impact of voluntary medical male circumcision: lessons and challenges for managing programs. PLoS Med. 2014;11(5):e1001641.
- 145. Wei C, Herrick A, Raymond HF, Anglemyer A, Gerbase A, Noar SM et al. Social marketing interventions to increase HIV/STI testing uptake among men who have sex with men and male-to-female transgender women. Cochrane Database of Syst Rev. 2011;9:CD009337.

- 146. Guy R, Goller J, Thorpe R, Grierson J, Batrouney C, Kennedy M et al. No increase in HIV or sexually transmissible infection testing following a social marketing campaign among men who have sex with men. J Epidemiol Community Health. 2009;63:391-6.
- 147. Darrow WW, Biersteker S. Short-term impact evaluation of a social marketing campaign to prevent syphilis among men who have sex with men. Am J Public Health. 2008;98:337-43.
- 148. Guse K, Levine D, Martins S, Lira A, Gaarde J, Westmorland W et al. Interventions using new digital media to improve adolescent sexual health: a systematic review. J Adolesc Health. 2012;51(6):535-43.
- 149. Tortolero SR, Markham CM, Peskin MF, Shegog R, Addy RC, Escobar-Chaves SL et al. It's Your Game: Keep It Real: delaying sexual behavior with an effective middle school program. J Adolesc Health. 2010;46:169-79.
- 150. Schnall R, Travers J, Rojas M, Carballo-Diéguez A. eHealth interventions for HIV prevention in high-risk men who have sex with men: a systematic review. J Med Internet Res. 2014;16:e134.
- 151. Hirshfield S, Chiasson MA, Joseph H, Scheinmann R, Johnson WD, Remien RH et al. An online randomized controlled trial evaluating HIV prevention digital media interventions for men who have sex with men. PLoS ONE. 2012;7:e46252.
- 152. King E. Safety in numbers: safer sex and gay men. London (UK): Routledge; 1994.
- 153. Asiimwe-Okiror G, Opio A, Musinguzi J, Madraa E, Tembo G, Carael M. Change in sexual behaviour and decline in HIV infection among young pregnant women in urban Uganda. AIDS. 1997;11(14):1757-63.
- 154. Scott-Sheldon L, Huedo-Medina TB, Warren MR, Johnson BT, Carey MP. Efficacy of behavioral interventions to increase condom use and reduce sexually transmitted infections: a meta-analysis, 1991 to 2010. J Acquir Immune Defic Syndr. 2011;15:489-98.
- 155. Fonner VA, Kennedy CE, O'Reilly KR, Sweat MD. Systematic assessment of condom use measurement in evaluation of HIV prevention interventions: need for standardization of measures. AIDS Behav. 2014;18(22):2374-86.
- 156. Albarracin D, Gillette JC, Earl AN, Glasman LR, Durantini MR, Ho MH. A test of major assumptions about behavior change: a comprehensive look at the effects of passive and active HIV-prevention interventions since the beginning of the epidemic. Psychol Bull. 2005;131(6):856-97.
- 157. Jones D, Ross D, Weiss SM, Bhat G, Chitalu N. Influence of partner participation on sexual risk behavior reduction among HIV-positive Zambian women. J Urban Health. 2005;82(3 Suppl 4):iv92-100.
- 158. Townsend L, Matthews C, Zembe Y. A systematic review of behavioural interventions to prevent HIV infection and transmission among heterosexual adult men in low- and middle-income countries. Prev Sci. 2013;14(1):88-105.

- 159. Simbayi LC, Kalichman S, Skinner D, Jooste S, Cain D, Cherry C et al. Theory-based HIV risk reduction counselling for sexually transmitted infection clinic patients in Cape Town, South Africa. Sex Transm Dis. 2004;31:727-33.
- 160. Kalichman S, Simbayi LC, Vermaak R, Cain D, Jooste S, Peltzer K. HIV/AIDS risk reduction counselling for alcohol using sexually transmitted infections clinic patients in Cape Town, South Africa. J Acquir Immune Defic Syndr. 2007;44:594-600.
- 161. Fisher J, Fisher WA, Cornman DH, Amico RK, Bryan A, Friedland GH. Cliniciandelivered intervention during routine clinical care reduces unprotected sexual behaviour among HIV-infected patients. J Acquir Immune Defic Syndr. 2006;41:44-52.
- 162. Cornman D, Kiene SM, Christie S, Fisher WA, Shuper PA, Pillay S et al. Clinic-based intervention reduces unprotected sexual behavior among HIV-infected patients in KwaZulu-Natal, South Africa: results of a pilot study. J Acquir Immune Defic Syndr. 2008;48:553-60.
- 163. Wong E, Roddy RE, Tucker H, Tamoufé U, Ryan K, Ngampoua F et al. Use of male condoms during and after randomized, controlled trial participation in Cameroon. Sex Transm Dis. 2005;32(5):300-07.
- 164. Bing EG, Cheng KG, Ortiz DJ, Ovalle-Bahamón RE, Ernesto F, Weiss RE et al. Evaluation of a prevention intervention to reduce HIV risk among Angolan soldiers. AIDS Behav. 2008;12(3):384-95.
- 165. Cornman D, Schmiege SJ, Bryan A, Benziger TJ, Fisher JD. An information—motivation—behavioral skills model-based HIV prevention intervention for truck drivers in India. Soc Sci Med. 2007;64(8):1572–84.
- 166. Jewkes R, Nduna M, Levin J, Jama N, Dunkle K, Puren A et al. Impact of Stepping Stones on incidence of HIV and HSV-2 and sexual behaviour in rural South Africa: cluster randomised control trial. BMJ. 2008;337:a506.
- 167. Crepaz N, Tungol-Ashmon MV, Higa DH, Vosburgh W, Mullins MM, Barham T et al. A systematic review of interventions for reducing HIV risk behaviors among people living with HIV in the United States, 1988–2012. AIDS. 2014;28(5):633-56.
- 168. Impact assessment of the expanded support programme: Zimbabwe. Harare: Health Partners International; 2011 (https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/197475/E SP-Impact-Assessment-zimb-11.pdf, accessed 8 July 2016).
- 169. Solomon J, Card JJ, Malow RM. Adapting efficacious interventions: advancing translational research in HIV prevention. Eval Health Prof. 2006;29:162-94.
- 170. Behavior change and HIV prevention: (re)considerations for the 21st century. Global HIV Prevention Working Group; 2008.
- Burton J, Darbes LA, Operario D. Couples-focused behavioral interventions for prevention of HIV: systematic review of the state of evidence. AIDS Behav. 2010;14(1):1–10.

- 172. Johnson TB, Carey MP, Chaudoir SR, Reid AE. Sexual risk reduction for persons living with HIV: research synthesis of randomized controlled trials, 1993–2004. J Acquir Immune Defic Syndr. 2006;41(5):642-50.
- 173. Carvalho FT, Gonçalves TR, Faria ER, Shoveller JA, Piccinini CA, Ramos MC et al. Behavioral interventions to promote condom use among women living with HIV. Cochrane Database Syst Rev. 2011;(9):CD007844.
- 174. Darbes L, Crepaz N, Lyles C, Kennedy G, Rutherford G. The efficacy of behavioral interventions in reducing HIV risk behaviors and incident sexually transmitted diseases in heterosexual African Americans. AIDS. 2008;22(10):1177–94.
- 175. Herbst J, Beeker C, Mathew A, McNally T, Passin WF, Kay LS et al. The effectiveness of individual-, group-, and community-level HIV behavioral risk-reduction interventions for adult men who have sex with men: a systematic review. Am J Prev Med. 2007;32(4 Suppl):S38-67.
- 176. Sullivan P, Carballo-Diéguez A, Coates T, Goodreau SM, McGowan I, Sanders EJ et al. Successes and challenges of HIV prevention in men who have sex with men. Lancet. 2012;380(9839):388-99.
- 177. Koblin B, Husnik MJ, Colfax G, Huang Y, Madison M, Mayer K et al. Risk factors for HIV infection among men who have sex with men. AIDS. 2006;20(5):731-9.
- 178. Shahmanesh M, Patel V, Mabey D, Cowan F. Effectiveness of interventions for the prevention of HIV and other sexually transmitted infections in female sex workers in resource poor setting: a systematic review. Trop Med Int Health. 2008;13(5):659-79.
- 179. Wariki W, Ota E, Mori R, Koyanagi A, Hori N, Shibuya K. Behavioral interventions to reduce the transmission of HIV infection among sex workers and their clients in low- and middle-income countries. Cochrane Database Syst Rev. 2012;2:CD005272.
- 180. Patterson T, Mausbach B, Lozada R, Staines-Orozco H, Semple SJ, Fraga-Vallejo M et al. Efficacy of a brief behavioral intervention to promote condom use among female sex workers in Tijuana and Ciudad Juarez, Mexico. Am J Public Health. 2008;98(11):2051-7.
- 181. Mavedzenge S, Luecke E, Ross DA. Effectiveness of HIV prevention, treatment and care interventions among adolescents: a systematic review of systematic reviews. New York: United Nations Children's Fund; 2013.
- 182. Underhill K, Montgomery P, Operario D. Sexual abstinence only programmes to prevent HIV infection in high income countries: systematic review. BMJ. 2007. ;335(7613):248.
- 183. Underhill K, Operario D, Montgomery P. Systematic review of abstinence-plus HIV prevention programs in high-income countries. PLoS Med. 2007;4(9):e275.
- 184. Ross DA, Changalucha J, Obasi AI, Todd J, Plummer ML, Cleophas-Mazige B et al. Biological and behavioural impact of an adolescent sexual health intervention in Tanzania: a community-randomized trial. AIDS. 2007;21(14):1943-55.

- 185. Doyle AM, Ross DA, Maganja K, Baisley K, Masesa C, Andreasen A et al. Long-term biological and behavioural impact of an adolescent sexual health intervention in Tanzania: follow-up survey of the community-based MEMA kwa Vijana trial. PLoS Med. 2010;7:e1000287.
- 186. Wight D, Plummer M, Ross D. The need to promote behaviour change at the cultural level: one factor explaining the limited impact of the MEMA kwa Vijana adolescent sexual health intervention in rural Tanzania. A process evaluation. BMC Public Health. 2012;12:788.
- 187. Dupas P. Do teenagers respond to HIV risk information? Evidence from a field experiment in Kenya. American Economic Journal: Applied Economics. 2011;3(1):1–34.
- 188. Fonner VA, Armstrong KS, Kennedy CE, O'Reilly KR, Sweat MD. School based sex education and HIV prevention in low- and middle-income countries: a systematic review and meta-analysis. PLoS ONE. 2014;9(3):e89692.
- 189. Medley A, Kennedy CE, O'Reilly KR, Sweat MD. Effectiveness of peer education interventions for HIV prevention in developing countries: a systematic review and meta-analysis. AIDS Educ Prev. 2009;21:181-206.
- 190. Simoni J, Nelson KM, Franks JC, Yard SS, Lehavot K. Are peer interventions for HIV efficacious? A systematic review. AIDS Behav. 2011;15:1589-95.
- 191. Tolli MV. Effectiveness of peer education interventions for HIV prevention, adolescent pregnancy prevention and sexual health promotion for young people: a systematic review of European studies. Health Educ Res. 2012:27;904-13.
- 192. Stephenson J, Strange V, Allen E, Copas A, Johnson A, Bonell C et al. The long-term effects of a peer-led sex education programme (RIPPLE): a cluster randomised trial in schools in England. PLoS Med. 2008;5(11):e224.
- 193. Sweat M, Morin S, Celentano D, Mulawa M, Singh B, Mbwambo J et al. Community-based intervention to increase HIV testing and case detection in people aged 16–32 years in Tanzania, Zimbabwe, and Thailand (NIMH Project Accept, HPTN 043): a randomised study. Lancet Infect Dis. 2011;11(7):525–32.
- 194. Cowan F, Pascoe SJ, Langhaug LF, Mavhu W, Chidiya S, Jaffar S et al. The Regai Dzive Shiri Project: results of a randomized trial of an HIV prevention intervention for youth. AIDS. 2010;24:2541-52.
- 195. Palmateer N, Kimber J, Hickman M, Hutchinson S, Rhodes T, Goldberg D. Evidence for the effectiveness of sterile injecting equipment provision in preventing hepatitis C and human immunodeficiency virus transmission among injecting drug users: a review of reviews. Addiction. 2010;105:844.
- 196. Haberland NA. The case for addressing gender and power in sexuality and HIV education: a comprehensive review of evaluation studies. Int Perspect Sex Reprod Health. 2015 Mar;41(1):31–42.

- 197. Hallett TB, Gregson S, Lewis JJ, Lopman BA, Garnett GP. Behaviour change in generalised HIV epidemics: impact of reducing cross-generational sex and delaying age at sexual debut. Sex Transm Infect. 2007 Aug;83(Suppl 1):i50-54.
- 198. Luke N. Confronting the "sugar daddy" stereotype: age and economic asymmetries and risky sexual behavior in urban Kenya. Int Fam Plan Perspect. 2005;31(1):6-14.
- 199. De Neve JW, Fink G, Subramanian SV, Moyo S, Bor J. Length of secondary schooling and risk of HIV infection in Botswana: evidence from a natural experiment. Lancet Glob Health. 2015;3(8):e470-7.
- 200. Pettifor A. Unpacking the results of HPTN 068: a randomized controlled cash transfer trial to prevent HIV infection in young women in South Africa [presentation] (http://strive.lshtm.ac.uk/sites/strive.lshtm.ac.uk/files/HIV%20prevention%20for%20youn g%20South%20African%20women%20Lessons%20from%20Swa%20Koteka.pdf, accessed 28 March 2018).
- 201. Hargreaves JR, Bonell CP, Boler T, Boccia D, Birdthistle I, Fletcher A et al. Systematic review exploring time trends in the association between educational attainment and risk of HIV infection in sub-Saharan Africa. AIDS. 2008 Jan 30;22(3):403-14.
- 202. Campbell C, Cornish F. Towards a "fourth generation" of approaches to HIV/AIDS management: creating contexts for effective community mobilisation. AIDS Care. 2010;22:1569-79.
- 203. Guidelines for second generation HIV surveillance: an update: Know Your Epidemic. Geneva: World Health Organization; 2013.
- 204. World Health Organization, UNAIDS. Prevention and treatment of HIV and other sexually transmitted infections for sex workers in low- and middle-income countries. Geneva: World Health Organization; 2012.
- 205. NIMH Collaborative HIV/STD Prevention Trial Group. Results of the NIMH collaborative HIV/sexually transmitted disease prevention trial of a community popular opinion leader intervention. J Acquir Immune Defic Syndr. 2010;54:204-14.
- 206. Kelly JA, St. Lawrence JS, Diaz YE, Stevenson LY, Hauth AC, Brasfield TL et al. HIV risk behavior reduction following intervention with key opinion leaders of population: an experimental analysis. Am J Public Health. 1991 Feb;81(2):168-71.
- 207. Rogers E. Diffusion of innovations, fourth edition. New York: The Free Press, 2010.
- NIMH Collaborative HIV/STD Prevention Trial Group. Formative study conducted in five countries to adapt the community popular opinion leader intervention. AIDS. 2007;21:S91-8.
- 209. Cornish F, Priego-Hernandez J, Campbell C, Mburu G, McLean S. The impact of community mobilisation on HIV prevention in middle and low income countries: a systematic review and critique. AIDS Behav. 2014;18(11):2110-34.
- 210. Padian N, McCoy SI, Balkus JE, Wasserheit JN. Weighing the gold in the gold standard: challenges in HIV prevention research. AIDS. 2010;24:621-35.

- 211. Sweat MD, Denison JA. Reducing HIV incidence in developing countries with structural and environmental interventions. AIDS. 1995;9 Suppl A:S251-7.
- 212. Tawil O, Verster AD, O'Reilly KR. Enabling approaches in HIV/AIDS prevention: influencing the social and environmental determinants of risk. AIDS. 1995;9:1299-306.
- 213. Bastagli F, Hagen-Zanker J, Harman L, Sturge G, Barca V, Schmidt T, et al. Cash transfers: what does the evidence say? A rigorous review of impacts and the role of design and implementation features. London: Overseas Development Institute; 2016.
- 214. Pettifor A MacPhail C, Nguyen N, Rosenberg M. Can money prevent the spread of HIV? A review of cash payments for HIV prevention. AIDS Behav. 2012;16:1729-38.
- 215. Baird S, Garfein RS, McIntosh CT, Ozler B. Effect of a cash transfer programme for schooling on prevalence of HIV and herpes simplex type 2 in Malawi: a cluster randomised trial. Lancet. 2012;379:1320–1329.
- 216. Handa S, Halpern CT, Pettifor A, Thirumurthy H. The Government of Kenya's cash transfer program reduces the risk of sexual debut among young people age 15–25. PLoS ONE. 2014;9:e85473.
- 217. Cluver L, Boyes M, Orkin M, Pantelic M, Molwena T, Sherr L. Child-focused state cash transfers and adolescent risk of HIV infection in South Africa: a propensity-score-matched case-control study. Lancet Glob Health. 2013:1(6):e362-70.
- 218. Pettifor A, MacPhail C, Hughes JP, Selin A, Wang J, Gómez-Olivé F et al. The effect of a conditional cash transfer on HIV incidence in young women in rural South Africa (HPTN 068): a phase 3, randomised controlled trial. Lancet Glob Health. 2016;4(12):e978-88.
- 219. Abdool Karim Q, Leask K, Kharsany AB, Humphries H, Ntombela F, Samsunder N et al. Impact of conditional cash incentives on HSV-2 and HIV prevention in rural South African high school students: results of the CAPRISA 007 cluster randomized controlled trial. Eighth International AIDS Society Conference on HIV Pathogenesis, Treatment and Prevention. Vancouver, British Columbia, Canada, 19–22 July 2015. Abstract TUAC0101LB.
- 220. Björkman-Nyqvist M, Corno L, de Walque D, Svensson J. Using lotteries to incentivize safer sexual behavior evidence from a randomized controlled trial on HIV prevention. Policy research working paper 7215. Washington (DC): World Bank Group, Development Research Group; 2015.
- 221. de Walque D, Dow WH, Nathan R, Abdul R, Abilahi F, Gong E et al. Incentivising safe sex: a randomised trial of conditional cash transfers for HIV and sexually transmitted infection prevention in rural Tanzania. BMJ Open. 2012;2:e000747.
- 222. de Walque D, Dow W, Nathan R, Abudl R, Abilahi F, Gong E et al. Evaluating conditional cash transfers for HIV/STI prevention in rural Tanzania: one-year post-intervention follow-up. Population Association of America 2012 Annual Meeting. San Francisco, United States, 2012.

- 223. Packel L, Keller A, Dow WH, de Walque D, Nathan R, Mtenga S. Evolving strategies, opportunistic implementation: HIV risk reduction in Tanzania in the context of an incentive-based HIV prevention intervention. PLoS One. 2012;7:e44058.
- 224. Practical guidelines for intensifying HIV prevention: towards universal access. Geneva: UNAIDS; 2007.
- 225. McCoy SI, Kangwende RA, Padian NS. Behavior change interventions to prevent HIV among women living in low and middle income countries. New Delhi: International Initiative for Impact Evaluation (3ie); 2009.
- 226. Jana S, Basu I, Rotheram-Borus MJ, Newman PA. The Sonagachi project: a sustainable community intervention program. AIDS Educ Prev. 2004;16(5):405–14.
- 227. Jana S, Singh S. Beyond medical model of STD intervention—lessons from Sonagachi. Indian J Public Health. 1995;39:125–31.
- 228. Campbell C. Letting them die: how HIV/AIDS prevention programmes often fail. London: James Currey; 2003.
- 229. Heise L, Lutz B, Ranganathan M, Watts C. Cash transfers for HIV prevention: considering their potential. J Int AIDS Soc. 2013;16:18615.
- 230. Lagarde M, Haines A, Palmer N. The impact of conditional cash transfers on health outcomes and use of health services in low and middle income countries. Cochrane Database Syst Rev. 2009;7:CD008137.
- 231. Prendergast M, Podus D, Finney J, Greenwell L, Roll J. Contingency management for treatment of substance use disorders: a meta-analysis. Addiction. 2006;101:1546–60.
- 232. Lee R, Cui RR, Muessig KE, Thirumurthy H, Tucker JD. Incentivizing HIV/STI testing: a systematic review of the literature. AIDS Behav. 2014;18:905–12.
- 233. Gregson S, Adamson S, Papaya S, Mundondo J, Nyamukapa CA, Mason PR et al. Impact and process evaluation of integrated community and clinic-based HIV-1 control: a cluster-randomised trial in eastern Zimbabwe. PLoS Med. 2007;4:e102.
- 234. Celentano D, Bond KC, Lyles CM, Eiumtrakul S, Go VF, Beyrer C et al. Preventive intervention to reduce sexually transmitted infections: a field trial in the Royal Thai Army. Arch Intern Med. 2000;160:535–40.
- 235. Chandrasekaran P, Dallabetta G, Loo V, Mills S, Saidel T, Adhikary R et al. Evaluation design for large-scale HIV prevention programmes: the case of Avahan, the India AIDS initiative. AIDS. 2008;22:S1-15.
- 236. Deering KN, Boily MC, Lowndes CM, Shoveller J, Tyndall MW, Vickerman P et al. A dose-response relationship between exposure to a large-scale HIV preventive intervention and consistent condom use with different sexual partners of female sex workers in southern India. BMC Public Health. 2011;11:S8.

The effectiveness of behavioural interventions to prevent HIV. A compendium of evidence.

- 237. Boily MC, Pickles M, Lowndes CM, Ramesh BM, Washington R, Moses S et al. Positive impact of a large-scale HIV prevention programme among female sex workers and clients in South India. AIDS. 2013:27;1449–60.
- 238. Rajaram SP, Banandur P, Thammattoor UK, Thomas T, Mainkar MK, Paranjape R et al. Two cross-sectional studies in South India assessing the effect of an HIV prevention programme for female sex workers on reducing syphilis among their clients. Sex Transm Infect. 2014;90:556-62.
- 239. Ng M, Gakidou E, Levin-Rector A, Khera A, Murray CJ, Dandona L. Assessment of population-level effect of Avahan, an HIV-prevention initiative in India. Lancet. 2011;378:1643–52.
- 240. Goswami P, Rachakulla HK, Ramakrishnan L, Mathew S, Ramanathan S, George B et al. An assessment of a large-scale HIV prevention programme for high-risk men who have sex with men and transgenders in Andhra Pradesh, India: using data from routine programme monitoring and repeated cross-sectional surveys. BMJ Open. 2013;3:e002183.
- 241. Subramanian T, Ramakrishnan L, Aridoss S, Goswami P, Kanguswami B, Shajan M et al. Increasing condom use and declining STI prevalence in high-risk MSM and TGs: evaluation of a large-scale prevention program in Tamil Nadu, India. BMC Public Health. 2013;17:857.