**APPENDIX C: Articles excluded after full-text review**

**Change in condom use in high-risk populations newly aware of HIV diagnosis in the United States and Canada: A systematic review and meta-analysis**

**Reasons for exclusion:**

* No appropriate comparison group (k=27)
* No reporting of outcomes by serostatus (k=22)
* No HIV-infected participants in analysis (k=14)
* No outcomes of interest (k=7)
* Study conducted outside USA or Canada (k=5)
* Data collected entirely pre-1996 (k=4)
* Lack of quantitative outcome information sufficient to extract outcomes (k=2)
* Modeling study (k=2)

Citations are provided below summary table.

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| **Record** | **Reason for exclusion** |
| Aidala 2006 | No appropriate comparison group |
| Amaro 2005 | Lack of quantitative outcome information |
| Avants 2001 | No appropriate comparison group |
| Bailey 2009 | Study conducted outside of US/Canada |
| Balan 2014 | No HIV-infected participants in analysis |
| Batchelder 2015 | No appropriate comparison group |
| Beckwith 2010 | No HIV-infected participants in analysis |
| Bedoya 2012 | No appropriate comparison group |
| Bernstein 2012a | No reporting of outcomes by serostatus  |
| Bernstein 2012b | No reporting of outcomes by serostatus  |
| Booth 1998 | No reporting of outcomes by serostatus  |
| Branson 1998 | No outcomes of interest |
| Brennan 2007 | No appropriate comparison group |
| Brogly 2002 | No outcomes of interest |
| Brown 2005 | No reporting of outcomes by serostatus  |
| Burt 2012 | No appropriate comparison group |
| Chamot 1999 | Data collected entirely pre-1996 |
| Coffin 2014 | No reporting of outcomes by serostatus  |
| Cohen 2008 | No appropriate comparison group |
| Compton 2000 | No reporting of outcomes by serostatus  |
| Cope 2014 | No appropriate comparison group |
| Denning 2005 | No appropriate comparison group |
| Des Jarlais 2014 | No appropriate comparison group |
| Di Franceisco 2005 | No reporting of outcomes by serostatus  |
| Dilley 2007 | No HIV-infected participants in analysis |
| Dilley 2011 | No HIV-infected participants in analysis |
| Dolezal 1999 | Data collected entirely pre-1996 |
| Dombrowski 2013 | No appropriate comparison group |
| Dushay 2001 | No reporting of outcomes by serostatus  |
| Edelman 2012 | No HIV-infected participants in analysis |
| Finkler 2004 | Study conducted outside of US/Canada |
| Flaskerud 1997 | No reporting of outcomes by serostatus  |
| Forney 2012 | No appropriate comparison group |
| Fox 2009 | Study conducted outside of US/Canada |
| Gibson 1999 | No HIV-infected participants in analysis |
| Gorbach 2006 | No outcomes of interest |
| Gorbach 2011 | No outcomes of interest |
| Grinstead 2001 | Study conducted outside of US/Canada |
| Grov 2015 | No appropriate comparison group |
| Hays 1997 | Data collected entirely pre-1996 |
| Hershberger 2003 | No reporting of outcomes by serostatus  |
| Hodder 2013 | No appropriate comparison group |
| Ickovics 1998 | No HIV-infected participants in analysis |
| Inciardi 2005 | No reporting of outcomes by serostatus  |
| Kelen 1996 | No appropriate comparison group |
| Khanna 2014 | Modeling study |
| Khosropour 2015 | No appropriate comparison group |
| Koblin 2004 | No reporting of outcomes by serostatus  |
| Koblin 2012 | No reporting of outcomes by serostatus  |
| Kotranski 1998 | No reporting of outcomes by serostatus  |
| Kurtz 2012 | No appropriate comparison group |
| Latkin 2009 | No reporting of outcomes by serostatus  |
| Macgowan 1997 | Data collected entirely pre-1996 |
| Mansergh 2010 | No reporting of outcomes by serostatus  |
| Mattson 2002 | No reporting of outcomes by serostatus  |
| McCusker 1996 | No HIV-infected participants in analysis |
| McFarland 2012 | No appropriate comparison group |
| McGowan 2004 | No outcomes of interest |
| McMahon 2013 | No HIV-infected participants in analysis |
| McMahon 2014 | No HIV-infected participants in analysis |
| Metcalf 2005 | No HIV-infected participants in analysis |
| Metsch 2012 | No reporting of outcomes by serostatus  |
| Oster 2011 | No appropriate comparison group |
| Pantin 2013 | No reporting of outcomes by serostatus  |
| Ramadanovic 2013 | Modeling study |
| Robles 1996 | No appropriate comparison group |
| Robles 1998 | No appropriate comparison group |
| Rosenberg 2011 | No appropriate comparison group |
| Rotheram-Borus 2010 | No reporting of outcomes by serostatus  |
| Rusch 2005 | No appropriate comparison group |
| Sarna 2011 | Study conducted outside of US/Canada |
| Schrager 2011 | No reporting of outcomes by serostatus  |
| Sikkema 2011 | No appropriate comparison group |
| Sikkema 2014 | No appropriate comparison group |
| St. Lawrence 1998 | No HIV-infected participants in analysis |
| Surratt 2010 | No reporting of outcomes by serostatus  |
| Towe 2010 | No appropriate comparison group |
| Vallabhaneni 2013 | No outcomes of interest |
| Warner 2001 | No appropriate comparison group |
| Webster 2003 | No HIV-infected participants in analysis |
| Weinhardt 2005 | Lack of quantitative outcome information |
| Whiteside 2013 | No outcomes of interest |
| Wilson 1999 | No HIV-infected participants in analysis |

**REFERENCES**

1. Aidala AA, Lee G, Garbers S, Chiasson MA. Sexual behaviors and sexual risk in a prospective cohort of HIV-positive men and women in New York City, 1994–2002: implications for prevention. AIDS Educ Prev. 2006;18(1):12-32
2. Amaro H, Morrill AC, Dai J, Cabral H, Raj A. Heterosexual behavioral maintenance and change following HIV counseling and testing. J Health Psychol. 2005;10(2):287-300. Epub 2005/02/23
3. Avants SK, Warburton LA, Margolin A. How injection drug users coped with testing HIV-seropositive: Implications for subsequent health-related behaviors. AIDS Educ Prev. 2001;13(3):207-18
4. Bailey AC, Roberts J, Weatherburn P, Hickson FC, Reid DS, Fisher M, et al. Community HIV testing for men who have sex with men: results of a pilot project and comparison of service users with those testing in genitourinary medicine clinics. Sex Transm Infect. 2009;85(2):145-7. Epub 2008/12/09
5. Balan IC, Carballo-Dieguez 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(2):254-62. Epub 2013/05/10
6. Batchelder AW, Carrico AW, Acree M, Hecht F, Moskowitz JT, editors. Affect and Transmission Risk Following HIV Diagnosis. CFAR Social and Behavioral Sciences Research Network; 2015; Baltimore, MD.
7. Beckwith CG, Liu T, Bazerman LB, DeLong AK, Desjardins SF, Poshkus MM, et al. HIV risk behavior before and after HIV counseling and testing in jail: A pilot study. JAIDS Journal of Acquired Immune Deficiency Syndromes. 2010;53(4):485-90
8. Bedoya CA, Mimiaga MJ, Beauchamp G, Donnell D, Mayer KH, Safren SA. Predictors of HIV transmission risk behavior and seroconversion among Latino men who have sex with men in Project EXPLORE. AIDS Behav. 2012;16(3):608-17
9. Bernstein E, Ashong D, Heeren T, Winter M, Bliss C, Madico G, et al. The impact of a brief motivational intervention on unprotected sex and sex while high among drug-positive emergency department patients who receive STI/HIV VC/T and drug treatment referral as standard of care. AIDS Behav. 2012;16(5):1203-16
10. Bernstein E, Heeren T, Winter M, Ashong D, Bliss C, Madico G, et al. Long-term follow-up after voluntary human immunodeficiency virus/sexually transmitted infection counseling, point-of-service testing, and referral to substance abuse treatment from the emergency department. Academic Emergency Medicine. 2012;19(4):386-95
11. Booth RE, Kwiatkowski CF, Stephens RC. Effectiveness of HIV/AIDS interventions on drug use and needle risk behaviors for out-of-treatment injection drug users. Journal of Psychoactive Drugs. 1998;30(3):269-78
12. Branson BM. Home sample collection tests for HIV infection. Jama. 1998;280(19):1699-701. Epub 1998/12/01
13. Brennan DJ. HIV treatment optimism and sexual risk among HIV-positive gay and bisexual men: Boston College; 2007.
14. Brogly SB, Bruneau J, Lamothe F, Vincelette J, Franco EL. HIV-positive notification and behavior changes in Montreal injection drug users. AIDS Educ Prev. 2002;14(1):17-28
15. Brown NL, Luna V, Ramirez MH, Vail KA, Williams CA. Developing an effective intervention for IDU women: a harm reduction approach to collaboration. AIDS Educ Prev. 2005;17(4):317-33. Epub 2005/09/24
16. Burt RD, Thiede H. Variations in patterns of sexual risk behavior among Seattle-area MSM based on their HIV status, the HIV status of their partner and partner type. AIDS Behav. 2012;16(3):599-607
17. Burt RD, Thiede H. Variations in patterns of sexual risk behavior among Seattle-area MSM based on their HIV status, the HIV status of their partner and partner type. AIDS Behav. 2012;16(3):599-607. Epub 2011/06/22
18. Chamot E, Coughlin SS, Farley TA, Rice JC. Gonorrhea incidence and HIV testing and counseling among adolescents and young adults seen at a clinic for sexually transmitted diseases. AIDS. 1999;13(8):971-9
19. Coffin PO, Santos GM, Colfax G, Das M, Matheson T, DeMicco E, et al. Adapted personalized cognitive counseling for episodic substance-using men who have sex with men: a randomized controlled trial. AIDS Behav. 2014;18(7):1390-400. Epub 2014/02/11
20. Cohen MH, Olszewski Y, Webber MP, Blaney N, Garcia P, Maupin R, et al. Women identified with HIV at labor and delivery: Testing, disclosing and linking to care challenges. Maternal and Child Health Journal. 2008;12(5):568-76
21. Compton WM, Cottler LB, Ben-Abdallah A, Cunningham-Williams R, Spitznagel EL. The effects of psychiatric comorbidity on response to an HIV prevention intervention. Drug and alcohol dependence. 2000;58(3):247-57
22. Cope AB, Crooks AM, Chin T, Kuruc JD, McGee KS, Eron JJ, et al. Incident sexually transmitted infection as a biomarker for high risk sexual behavior following diagnosis with acute HIV. Sexually transmitted diseases. 2014;41(7):447
23. Darrow WW WR, Kurtz SP, Buckley AK, Patel KI, Stempel RR. Impact of HIV counseling and testing on HIV-infected men who have sex with men: the South Beach Health Survey. AIDS Behav.2(2):115-26
24. Denning PH, Campsmith ML. Unprotected anal intercourse among HIV-positive men who have a steady male sex partner with negative or unknown HIV serostatus. American Journal of Public Health. 2005;95(1):152-8
25. Des Jarlais DC, Arasteh K, McKnight C, Feelemyer J, Hagan H, Cooper HL, et al. Combined HIV prevention, the New York City condom distribution program, and the evolution of safer sex behavior among persons who inject drugs in New York City. AIDS Behav. 2014;18(3):443-51. Epub 2013/11/26
26. Di Franceisco W, Pinkerton SD, Dyatlov RV, Swain GR. Evidence of a Brief Surge in Safer Sex Practices After HIV Testing Among a Sample of High-Risk Men and Women. JAIDS Journal of Acquired Immune Deficiency Syndromes. 2005;39(5):606-12
27. Dilley JW, Schwarcz S, Murphy J, Joseph C, Vittinghoff E, Scheer S. Efficacy of personalized cognitive counseling in men of color who have sex with men: secondary data analysis from a controlled intervention trial. AIDS Behav. 2011;15(5):970-5
28. Dilley JW, Woods WJ, Loeb L, Nelson K, Sheon N, Mullan J, et al. Brief cognitive counseling with HIV testing to reduce sexual risk among men who have sex with men: Results from a randomized controlled trial using paraprofessional counselors. JAIDS. 2007;44(5):569-77
29. Dolezal C, Meyer-Bahlburg HF, Liu X, Ehrhardt AA, Exner TM, Rabkin JG, et al. Longitudinal changes in sexual risk behavior among HIV+ and HIV− male injecting drug users. The American journal of drug and alcohol abuse. 1999;25(2):281-303
30. Dombrowski JC, Harrington RD, Golden MR. Evidence for the Long-Term Stability of HIV Transmission-Associated Sexual Behavior Following HIV Diagnosis. Sexually transmitted diseases. 2013;40(1):41
31. Dushay RA, Singer M, Weeks MR, Rohena L, Gruber R. Lowering HIV risk among ethnic minority drug users: Comparing culturally targeted intervention to a standard intervention. American Journal of Drug and Alcohol Abuse. 2001;27(3):501-24
32. Edelman EJ, Dinh A, Radulescu R, Lurie B, D'Onofrio G, Tetrault JM, et al. Combining rapid HIV testing and a brief alcohol intervention in young unhealthy drinkers in the emergency department: A pilot study. The American Journal of Drug and Alcohol Abuse. 2012;38(6):539-43
33. Finkler L, de Oliveira MZ, Gomes WB. HIV/AIDS e práticas preventivas em uniões heterossexuais estáveis. Aletheia. 2004;20:9-25
34. Flaskerud JH, Nyamathi AM, Uman GC. Longitudinal effects of an HIV testing and counseling programme for low-income Latina women. Ethnicity & health. 1997;2(1-2):89-103
35. Forney JC, Miller RL, Team CPS. Risk and protective factors related to HIV-risk behavior: a comparison between HIV-positive and HIV-negative young men who have sex with men. AIDS care. 2012;24(5):544-52
36. Fox J, White PJ, Macdonald N, Weber J, McClure M, Fidler S, et al. Reductions in HIV transmission risk behaviour following diagnosis of primary HIV infection: a cohort of high‐risk men who have sex with men. HIV medicine. 2009;10(7):432-8
37. Gibson DR, Lovelle-Drache J, Young M, Hudes ES, Sorensen JL. Effectiveness of brief counseling in reducing HIV risk behavior in injecting drug users: final results of randomized trials of counseling with and without HIV testing. AIDS Behav. 1999;3(1):3-12
38. Gorbach PM, Drumright LN, Daar ES, Little SJ. Transmission behaviors of recently HIV-infected men who have sex with men. JAIDS Journal of Acquired Immune Deficiency Syndromes. 2006;42(1):80-5
39. Gorbach PM, Weiss RE, Jeffries R, Javanbakht M, Drumright LN, Daar ES, et al. Behaviors of recently HIV-infected men who have sex with men in the year post-diagnosis: effects of drug use and partner types. Journal of acquired immune deficiency syndromes (1999). 2011;56(2):176
40. Grinstead OA, Gregorich SE, Choi K-H, Coates T. Positive and negative life events after counselling and testing: the Voluntary HIV-1 Counselling and Testing Efficacy Study. AIDS. 2001;15(8):1045-52
41. Grov C, Rendina HJ, Moody RL, Ventuneac A, Parsons JT. HIV serosorting, status disclosure, and strategic positioning among highly sexually active gay and bisexual men. AIDS patient care and STDs. 2015;29(10):559-68
42. Hays RB, Paul J, Ekstrand M, Kegeles SM, Stall R, Coates TJ. Actual versus perceived HIV status, sexual behaviors and predictors of unprotected sex among young gay and bisexual men who identify as HIV‐negative, HIV‐positive and untested. AIDS. 1997;11(12):1495-502
43. Hershberger SL, Wood MM, Fisher DG. A Cognitive-Behavioral Intervention to Reduce HIV Risk Behaviors in Crack and Injection Drug Users. AIDS Behav. 2003;7(3):229-43
44. Hodder SL, Justman J, Hughes JP, Wang J, Haley DF, Adimora AA, et al. HIV acquisition among women from selected areas of the United States: a cohort study. Ann Intern Med. 2013;158(1):10-8.
45. Ickovics JR, Druley JA, Grigorenko EL, Morrill AC, Beren SE, Rodin J. Long-term effects of HIV counseling and testing for women: behavioral and psychological consequences are limited at 18 months posttest. Health Psychol. 1998;17(5):395-402.
46. Inciardi JA, Surratt HL, Kurtz SP, Weaver JC. The effect of serostatus on HIV risk behaviour change among women sex workers in Miami, Florida. AIDS Care. 2005;17 Suppl 1:S88-101.
47. Kelen GD, Hexter DA, Hansen KN, Humes R, Vigilance PN, Baskerville M, et al. Feasibility of an emergency department-based, risk-targeted voluntary HIV screening program. Ann Emerg Med. 1996;27(6):687-92.
48. Khanna AS, Goodreau SM, Gorbach PM, Daar E, Little SJ. Modeling the impact of post-diagnosis behavior change on HIV prevalence in Southern California men who have sex with men (MSM). AIDS Behav. 2014;18(8):1523-31.
49. Khosropour CM, Dombrowski JC, Hughes JP, Manhart LE, Simoni JM, Golden MR, editors. Measuring Purposefully Adopted Seroadaptive Behaviors vs Reported Sexual Behaviors Among MSM. Conference on Retroviruses and Opportunistic Infections (CROI) 2015; Boston, Massachusetts.
50. Koblin B, Chesney M, Coates T. Effects of a behavioural intervention to reduce acquisition of HIV infection among men who have sex with men: the EXPLORE randomised controlled study. Lancet. 2004;364(9428):41-50.
51. Koblin BA, Bonner S, Powell B, Metralexis P, Egan JE, Patterson J, et al. A randomized trial of a behavioral intervention for Black men who have sex with men: The DiSH Study. AIDS (London, England). 2012;26(4):483
52. Kotranski L, Semaan S, Collier K, Lauby J, Halbert J, Feighan K. Effectiveness of an HIV risk reduction counseling intervention for out-of-treatment drug users. AIDS Educ Prev. 1998;10(1):19-33
53. Kurtz SP, Buttram ME, Surratt HL, Stall RD. Resilience, syndemic factors, and serosorting behaviors among HIV-positive and HIV-negative substance-using MSM. AIDS Educ Prev: official publication of the International Society for AIDS Education. 2012;24(3):193
54. Latkin CA, Donnell D, Metzger D, Sherman S, Aramrattna A, Davis-Vogel A, et al. The efficacy of a network intervention to reduce HIV risk behaviors among drug users and risk partners in Chiang Mai, Thailand and Philadelphia, USA. Social science & medicine. 2009;68(4):740-8
55. MacGowan RJ, Brackbill RM, Rugg DL, Swanson NM, Weinstein B, Couchon A, et al. Sex, drugs and HIV counseling and testing: a prospective study of behavior‐change among methadone‐maintenance clients in New England. AIDS. 1997;11(2):229-35
56. Mansergh G, Koblin BA, McKirnan DJ, Hudson SM, Flores SA, Wiegand RE, et al. An intervention to reduce HIV risk behavior of substance-using men who have sex with men: a two-group randomized trial with a nonrandomized third group. PLoS Med. 2010;7(8):e1000329
57. McCusker J, Willis G, McDonald M, Sereti SM, Lewis BF, Sullivan JL. Community-wide HIV counselling and testing in central Massachusetts: who is retested and does their behavior change? J Community Health. 1996;21(1):11-22. Epub 1996/02/01
58. McFarland W, Chen Y-H, Nguyen B, Grasso M, Levine D, Stall R, et al. Behavior, intention or chance? A longitudinal study of HIV seroadaptive behaviors, abstinence and condom use. AIDS Behav. 2012;16(1):121-31
59. McGowan JP, Shah SS, Ganea CE, Blum S, Ernst JA, Irwin KL, et al. Risk behavior for transmission of human immunodeficiency virus (HIV) among HIV-seropositive individuals in an urban setting. Clinical Infectious Diseases. 2004;38(1):122-7
60. McMahon JM, Pouget ER, Tortu S, Volpe EM, Torres L, Rodriguez W. Couple-Based HIV Counseling and Testing: a Risk Reduction Intervention for US Drug-Involved Women and Their Primary Male Partners. Prevention Science. 2014;16(2):341-51
61. McMahon JM, Tortu S, Pouget ER, Torres L, Rodriguez W, Hamid R. Effectiveness of Couple-Based HIV Counseling and Testing for Women Substance Users and Their Primary Male Partners: A Randomized Trial. Adv Prev Med. 2013;2013:286207.
62. Metcalf CA, Douglas Jr JM, Malotte CK, Cross H, Dillon BA, Paul SM, et al. Relative efficacy of prevention counseling with rapid and standard HIV testing: A randomized, controlled trial (RESPECT-2). Sexually Transmitted Diseases. 2005;32(2):130-8
63. 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. American Journal of Public Health. 2012;102(6):1160-7
64. Oster AM, Dorell CG, Mena LA, Thomas PE, Toledo CA, Heffelfinger JD. HIV risk among young African American men who have sex with men: a case-control study in Mississippi. American journal of public health. 2011;101(1):137-43.
65. Pantin M, Leonard NR, Hagan H. Sexual HIV/HSV-2 risk among drug users in New York City: an HIV testing and counseling intervention. Subst Use Misuse. 2013;48(6):438-45. Epub 2013/03/27
66. Ramadanovic B, Vasarhelyi K, Nadaf A, Wittenberg RW, Montaner JS, Wood E, et al. Changing risk behaviours and the HIV epidemic: a mathematical analysis in the context of treatment as prevention. PloS one. 2013;8(5):e62321
67. Robles RR, Matos TD, Colon HM, Marrero CA, Reyes JC. Effects of HIV testing and counseling on reducing HIV risk behavior among two ethnic groups. Drugs and Society. 1996;9(1-2):173-84
68. Robles RR, Marrero CA, Matos TD, Colón HM, Finlinson HA, Reyes JC, et al. Factors associated with changes in sex behaviour among drug users in Puerto Rico. AIDS Care - Psychological and Socio-Medical Aspects of AIDS/HIV. 1998;10(3):329-38
69. Rosenberg ES, Sullivan PS, DiNenno EA, Salazar LF, Sanchez TH. Number of casual male sexual partners and associated factors among men who have sex with men: Results from the National HIV Behavioral Surveillance system. BMC public health. 2011;11(1):189
70. Rotheram-Borus MJ, Rhodes F, Desmond K, Weiss RE. Reducing HIV risks among active injection drug and crack users: The safety counts program. AIDS Behav. 2010;14(3):658-68
71. Rusch ML, Farzadegan H, Tarwater PM, Safaeian M, Vlahov D, Strathdee SA. Sexual risk behavior among injection drug users before widespread availability of highly active antiretroviral therapy. AIDS Behav. 2005;9(3):289-99. Epub 2005/09/01
72. Sarna A. Sexual Behaviours of People Living with HIV: Implications for Prevention with Positives: Ghent University; 2011.
73. Schrager SM, Wong CF, Weiss G, Kipke MD. Human immunodeficiency virus testing and risk behaviors among young men who have sex with men in Los Angeles County. American Journal of Health Promotion. 2011;25(4):244-7
74. Sikkema KJ, Abler L, Hansen NB, Wilson PA, Drabkin AS, Kochman A, et al. Positive Choices: Outcomes of a brief risk reduction intervention for newly HIV-diagnosed men who have sex with men. AIDS Behav. 2014;18(9):1808-19
75. Sikkema KJ, Hansen NB, Kochman A, Santos J, Watt MH, Wilson PA, et al. The development and feasibility of a brief risk reduction intervention for newly HIV‐diagnosed men who have sex with men. Journal of community psychology. 2011;39(6):717-32
76. St Lawrence J, Eldridge G, Brasfield T. Behavioral and psychosocial consequences of HIV antibody counseling and testing with African American women. Women's health (Hillsdale, NJ). 1998;4(2):135-53
77. Surratt HL, Inciardi JA. An effective HIV risk-reduction protocol for drug-using female sex workers. Journal of Prevention and Intervention in the Community. 2010;38(2):118-31
78. Towe VL, Sifakis F, Gindi RM, Sherman SG, Flynn C, Hauck H, et al. Prevalence of HIV infection and sexual risk behaviors among individuals having heterosexual sex in low income neighborhoods in Baltimore, MD: the BESURE study. JAIDS Journal of Acquired Immune Deficiency Syndromes. 2010;53(4):522-8
79. Vallabhaneni S, McConnell JJ, Loeb L, Hartogensis W, Hecht FM, Grant RM, et al. Changes in seroadaptive practices from before to after diagnosis of recent HIV infection among men who have sex with men. PLoS One. 2013;8(2):e55397
80. Warner BD, Leukefeld CG. Assessing the differential impact of an HIV prevention intervention: Who's putting the message into practice? AIDS Educ Prev. 2001;13(6):479-94
81. Webster RD, Darrow WW, Paul JP, Roark RA, Woods WJ, Stempel RR. HIV infection and associated risks among young men who have sex with men in a Florida resort community. Journal of acquired immune deficiency syndromes (1999). 2003;33(2):223-31
82. Weinhardt LS. HIV diagnosis and risk behavior. Positive Prevention: Springer; 2005. p. 29-63.
83. Wilson TE, Levinson RA, Jaccard J, Minkoff H, Endias R. Testing for HIV and other sexually transmitted diseases: Implications for risk behavior in women. Health Psychology. 1996;15(4):252-60

Grandfather Studies

**Reasons for exclusion:**

* No outcomes of interest (k=11)
* No appropriate comparison group (k=9)
* Document type (k=7)
* No reporting outcomes by serostatus (k=2)
* No HIV-infected participants in analysis (k=1)
* Study conducted outside of US/Canada (k=1)
* Duplicative study (k=1)

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| **Record** | **Reason for exclusion** |
| Armstrong 2017 | No outcomes of interest  |
| Balaji 2018  | No outcomes of interest  |
| Broaddus 2016 | No outcomes of interest |
| Calvo 2015 | Study conducted outside of US/Canada |
| Cooley 2016 | No outcomes of interest |
| Cordova 2018 | No HIV-infected participants in analysis |
| Festinger 2015 | No outcomes of interest |
| Fisher 2016 | No outcomes of interest |
| Foster 2017 | No outcomes of interest |
| Gilchrist 2017 | Document type |
| Gooden 2016 | No reporting of outcomes by serostatus |
| Globerman 2017 | Study Type (review) |
| Gorbach 2018 | No appropriate comparison group |
| Jones 2016 | No outcomes of interest |
| Katz 2015 | Document type |
| Katz 2018 | No appropriate comparison group |
| Khosropour 2015 | Document type |
| Krishnaratne 2015 | Document type  |
| Kuhns 2017 | Document type  |
| Kurth 2016 | No appropriate comparison group |
| Lachowsky 2015 | Document type |
| Momplaiser 2017 | No appropriate comparison group |
| Operario 2017 | No appropriate comparison group |
| Otis 2015 | No reporting of outcomes by serostatus |
| Patel 2016 | No appropriate comparison group |
| Spiller 2015 | No appropriate comparison group |
| Tross 2015 | No outcomes of interest  |
| Velera 2017 | No outcomes of interest  |
| Walker 2016 | No outcomes of interest  |
| Wimberly 2017 | No appropriate comparison group |
| Wu 2015 | No appropriate comparison group |
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**REFERENCES:**

1. Armstrong, H. The momentum health study: Understanding the context of HIV treatment as prevention among gay, bisexual, and other men who have sex with men in Vancouver, Canada. Journal of Sexual Medicine. 2017; 14(5):e235.
2. Balaji, AB, An, Q, Smith, JC, Newcomb, ME, Mustanski, B, Prachand, NG, Brady, KA, Braunstein, S and Paz-Bailey, G. High Human Immunodeficiency Virus Incidence and Prevalence and Associated Factors among Adolescent Sexual Minority Males-3 Cities, 2015. Clinical Infectious Diseases. 2018; 66(6):936-944.
3. Broaddus, M, Owczarzak, J, Pacella, M, Pinkerton, S and Wright, C. Partnership-level analysis of African American women’s risky sexual behavior in main and non-main partnerships. AIDS and Behavior. 2016; 20(12):2893-2903.
4. Calvo, GM, Konda, KA, León, SR, Vargas, S, Sánchez, H, Salvatierra, HJ, Brown, B, Klausner, JD and Caceres, CF. Comparison of sexual risk behaviours among HIV positive men who have sex with men before and after their diagnosis. Sexually Transmitted Infections. 2015; 91(A212-A213.
5. Cooley, LA, Wejnert, C, Spiller, MW, Broz, D and Paz-Bailey, G. Low HIV testing among persons who inject drugs—National HIV Behavioral Surveillance, 20 U.S. cities, 2012. Drug and Alcohol Dependence. 2016; 165(270-274.
6. Cordova, D. The preliminary efficacy of a HIV preventive intervention app in an urban youth-centered community health clinic. Journal of Adolescent Health. 2018; 62(2):S10-S11.
7. Festinger, D and Dugosh, KL. Delivering HIV prevention services to drug court clients. Drug and Alcohol Dependence. 2015; 156(e67.
8. Fisher, R and Luong, P. School based health center impact on sexual risk behaviors and contraceptive use among sexually active female high school students. Journal of Adolescent Health. 2016; 58(2):S96-S97.
9. Foster, PP, Dalmida, SG and McDougall, GJ, Jr. HIV Knowledge, Perceived Risk and Gender as Modulators of Salivary HIV Rapid Testing in African Americans. HIV/AIDS Res Treat. 2017; 2017(Se1):S31-s37.
10. Gilchrist, G, Swan, D, Widyaratna, K, Marquez-Arrico, JE, Hughes, E, Mdege, ND, Martyn-St James, M and Tirado-Munoz, J. A systematic review and meta-analysis of psychosocial interventions to reduce drug and sexual blood borne virus risk behaviours among people who inject drugs. AIDS and Behavior. 2017; 21(7):1791-1811.
11. Globerman, J, Mitra, S, Goglishvili, D, Rueda, S, Schoffel, L, Gangbar, K, Shi, Q, Rourke, S. HIV/STI prevention interventions: A systematic review and meta-analysis. Open Med. 2017; 12:450:467.
12. Gooden, L, Metsch, LR, Pereyra, MR, Malotte, CK, Haynes, LF, Douaihy, A, Chally, J, Mandler, RN and Feaster, DJ. Examining the Efficacy of HIV Risk-Reduction Counseling on the Sexual Risk Behaviors of a National Sample of Drug Abuse Treatment Clients: Analysis of Subgroups. AIDS Behav. 2016; 20(9):1893-906.
13. Gorbach, PM, Javanbakht, M and Bolan, RK. Behavior change following HIV diagnosis: Findings from a cohort of Los Angeles MSM. AIDS Care. 2018; 30(3):300-304.
14. Jones, J and Salazar, LF. A Review of HIV Prevention Studies that Use Social Networking Sites: Implications for Recruitment, Health Promotion Campaigns, and Efficacy Trials. AIDS and behavior. 2016; 20(11):2772-2781.
15. Katz, D, Golden, M, Hughes, J, Farquhar, C and Stekler, J. HIV self-testing increases HIV testing frequency among highrisk men who have sex with men: A randomized controlled trial. Journal of the International AIDS Society. 2015; 18(95.
16. Katz, DA, Golden, MR, Hughes, JP, Farquhar, C and Stekler, JD. 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;
17. Khosropour, CM, Dombrowski, JC, Katz, DA and Golden, MR. Changes in condomless sex and serosorting among MSM after HIV diagnosis. Topics in Antiviral Medicine. 2015; 23(488-489.
18. Krishnaratne, S. Systematic reviews of the efficacy and effectiveness of biological, behavioural and structural HIV prevention interventions. Sexually Transmitted Infections. 2015; 91(A6.
19. Kuhns, LM, Mimiaga, MJ, Reisner, SL, Biello, K and Garofalo, R. Project LifeSkills - a randomized controlled efficacy trial of a culturally tailored, empowerment-based, and group-delivered HIV prevention intervention for young transgender women: study protocol. BMC public health. 2017; 17(1):713.
20. Kurth, A, Farrior, JH, Hanscom, B, McKinstry, L, Stanton, J, Zerbe, A, Elion, R, Leider, J, Branson, B and El-Sadr, WM. Computer-based prevention counseling for HIV-infected persons (HPTN 065). Topics in Antiviral Medicine. 2016; 24(E-1):429.
21. Lachowsky, NJ, Stephenson, K, Rich, A, Lal, A, Cui, Z, Colley, G, Brown, J, Jollimore, J, Hall, D, Montaner, JS, Roth, E, Hogg, RS and Moore, D. Characteristics and rates of newly infected HIV-positive gay, bisexual and other men who have sex with men (MSM) in Vancouver, British Columbia: Preliminary findings of the momentum health study. Canadian Journal of Infectious Diseases and Medical Microbiology. 2015; 26(84B.
22. Momplaisir, F, Hussein, M, Tobin-Fiore, D, Smith, L, Bennett, D, Latkin, C and Metzger, DS. Racial inequities in HIV prevalence and composition of risk networks among people who inject drugs in HIV prevention trial network 037. Journal of Acquired Immune Deficiency Syndromes. 2017; 76(4):394-401.
23. Operario, D, Gamarel, KE, Iwamoto, M, Suzuki, S, Suico, S, Darbes, L and Nemoto, T. Couples-Focused Prevention Program to Reduce HIV Risk Among Transgender Women and Their Primary Male Partners: Feasibility and Promise of the Couples HIV Intervention Program. AIDS and behavior. 2017; 21(8):2452-2463.
24. Otis, J, Blais, M, Rodrigue, C, Veillette-Bourbeau, L, Haig, T, Wainberg, MA and Rousseau, R. Risk-reduction strategies among men who have sex with men: A latent class analysis of participants tested for HIV at SPOT, a community-based rapid testing intervention in Montreal. Canadian Journal of Infectious Diseases and Medical Microbiology. 2015; 26(13B.
25. Patel, M, Shields, J, Spiller, MT, Conrad, C, Roseberry, J, Waterhouse, D, Pontones, P, Peters, P, Duwve, J and Brooks, JT. Risk factors for HIV in an outbreak among persons who inject drugs, Indiana 2015. Topics in Antiviral Medicine. 2016; 24(E-1):390.
26. Spiller, MW, Broz, D, Wejnert, C, Nerlander, L and Paz-Bailey, G. HIV infection and HIV-associated behaviors among persons who inject drugs--20 cities, United States, 2012. MMWR. Morbidity and mortality weekly report. 2015; 64(10):270-275.
27. Tross, S, Feaster, DJ, Thorens, G, Duan, R, Gomez, Z, Pavlicova, M, Hu, MC, Kyle, T, Erickson, S, Spector, A, Haynes, L and Metsch, LR. Substance Use, Depression and Sociodemographic Determinants of HIV Sexual Risk Behavior in Outpatient Substance Abuse Treatment Patients. Journal of Addiction Medicine. 2015; 9(6):457-463.
28. Valera, P, Chang, Y and Lian, Z. HIV risk inside U.S. prisons: a systematic review of risk reduction interventions conducted in U.S. prisons. AIDS Care - Psychological and Socio-Medical Aspects of AIDS/HIV. 2017; 29(8):943-952.
29. Walker, E, Gilson, R and Fernando, I. Diagnosing recent HIV infection in an urban sexual health centre: Could more have be done to prevent acquisition? Sexually Transmitted Infections. 2016; 92(A85.
30. Wimberly, AS, Ivey, M, Rennert, L and McKay, JR. Effect of Continuing Care for Cocaine Dependence on HIV Sex-Risk Behaviors. AIDS and behavior. 2017; 21(4):1082-1090.
31. Wu, H, Hightow-Weidman, LB, Gay, CL, Jackson, T, Pike, E, Marmorino, J, Beagle, S, Hall, L and Peters, PJ. Unreported sexual risk behavior among MSM newly diagnosed with HIV infection. Topics in Antiviral Medicine. 2015; 23(468-469.