**Appendix Table I. Structural Interventions for HIV Prevention, 1989-2013 (k = 213).**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author and year** | **Target populationa** | **Study years** | **Locationb** | **Regionb** | **PPc** | **PSd** | **CBe** | **MMf** | **CMg** | **SDHh** | **Ai** | **Study designj** | **Outcomesk** | **Intervention** |
| Ajuwon 2008 [[1](#_ENREF_1)] | Primary health care workers; truckers; high school students; FSW; villagers | NR | Oyo state, Nigeria | West Africa |  |  | CB-PT |  |  |  |  | B/A one group | CU; UPS | Training primary health care workers to train others and implement community-based AIDS prevention activities |
| Alamo 2012 [[2](#_ENREF_2)] | HIV-positive clinic patients; Low income/ indigent | 2008 | Kampala, Uganda | East Africa | PP-I |  | CB-T |  |  |  |  | B/A one group; Serial x-sect | Retention in care; ART uptake; ART adherence | Use of electronic medical records and same day patient tracing to improve clinic efficiency and appointment adherence |
| Alstead 1999 [[3](#_ENREF_3)] | Sexually active adolescents | 1995 | King County, WA | US |  |  |  | MM-SM |  |  | A-Cdm | Serial x-sect | CU | Condom Campaign, HIV prevention program to promote CU among sexually active adolescents |
| Anderko 2000 [[4](#_ENREF_4)] | Rural college students | 1996-1997 | Rural IL | US |  |  |  |  |  |  | A-Cdm; A-HT | B/A x-sect | Sex initiation; NSP; CU; STI; HIV testing | Community and individual level interventions with HIV testing, counseling and condom distribution at campus health center |
| Baird 2012 [[5](#_ENREF_5)] | Never-married women age 13–22, low income | 2008-2009 | Zomba, Malawi | Southern Africa |  |  |  |  |  | SDH-S |  | Cluster RCT | HIV infection; STI | Cash transfer for attending school |
| Bardsley 1990 [[6](#_ENREF_6)] | PWID | 1989 | Vancouver, BC | Canada | PP-G | PS-NPS |  |  |  |  | A-SIE | B/A x-sect | SIE | Needle exchange program |
| Basu 2004 [[7](#_ENREF_7)] | FSW; Urban/Inner city | 2000-2001 | Cooch Behar, India | South Asia |  | PS-NPS | CB-PT |  | CM |  | A-Cdm; A-STI | Cluster RCT | CU | Replication of Sonagachi intervention (multi-faceted intervention with brothel-based FSW in red light district) |
| Batavia 2010 [[8](#_ENREF_8)] | Adult HIV-positive clinic patients on ART | 2007 | South India | South Asia |  |  |  |  |  |  | A-HC | B/A one group | ART Adherence | Graduated cost recovery program to access ART |
| Blake 2003 [[9](#_ENREF_9)] | Youth in school | 1995 | MA | US | PP-G |  |  |  |  |  | A-Cdm | Cluster RCT | CU; UPS | Condom availability program in Massachusetts high schools |
| Blank 2005 [[10](#_ENREF_10)] | MSM | 2002-2004 | New York, NY | US |  | PS-IS; PS-NTS |  |  |  |  | A-HT; A-STI | B/A one group | HIV testing; STI testing | Field-based holistic approach to MSM health and wellness with specific interventions targeted to neighborhoods most affected by syphilis. A package of integrated services were offered at nontraditional venues such as bars and clubs |
| Blankenship 2008 [[11](#_ENREF_11)] | FSW | 2006 | Andhra Pradesh, India | South Asia |  |  |  |  | CM |  |  | Retro cohort | CU | Community mobilization of FSW |
| Bollen 2010 [[12](#_ENREF_12)] | Brothel-based FSW | 2008-2009 | Bintan Island and Salatiga, Indonesia | Southeast Asia | PP-G; PP-I |  |  |  |  |  | A-Cdm; A-STI | B/A x-sect | STI; CU | Provision of adequate drugs for STI as periodic presumptive treatment followed by syndromic treatment; condom supply and promotion involving the local community |
| Bortolotti 1992 [[13](#_ENREF_13)] | PWID | 1985-1990 | Padua, Italy | Europe |  |  |  | MM-SM |  |  |  | B/A x-sect | SIE; CU | AIDS public information and education campaign |
| Boulay 2008 [[14](#_ENREF_14)] | General population | 2001-2003 | Ghana | West Africa |  |  |  | MM-SM |  | SDH-A |  | B/A x-sect | HIV stigma | National mass media campaign using religious leaders to reduce HIV stigma |
| Bowles 2008 [[15](#_ENREF_15)] | HIV-negatives; People of color; High risk | 2004-2006 | CA; DC; IL; MA; MI; MO | US |  | PS-NTS |  |  |  |  | A-HT | B/A one group | HIV | Rapid HIV testing in outreach and community settings, including public parks, homeless shelters, and bars with confirmatory testing and referral to care in 7 US cities |
| Brooks 2009 [[16](#_ENREF_16)] | STI clinic patients; Urban/inner city | 2003-2006 | Denver, CO | US | PP-I |  |  |  |  |  | A-STI | B/A one group | HIV testing | Optional rapid HIV testing, opt-out testing and new procedure for obtaining consent in a large metro STI clinic |
| Brown 2005 [[17](#_ENREF_17)] | PWID; women | 2000-2003 | Santa Clara County, CA | US |  | PS-NTS |  |  |  |  | A-HT; A-STI | B/A one group | HIV testing | HIV and STI testing and workshops |
| Brown 2007 [[18](#_ENREF_18)] | Emergency department patients; HIV-negatives; Urban/Inner city | 2006 | Washington, DC | US | PP-I | PS-IS |  |  |  |  | A-STI | B/A one group; Serial x-sect | HIV testing | Emergency department-based testing program using CDC recommendations |
| Buchanan 2009 [[19](#_ENREF_19)] | PLWH in hospitals; Homeless; Urban/inner city | 2003-2006 | Chicago, IL | US |  |  |  |  |  | SDH-S |  | RCT | CD4 count; Viral load | Provision of permanent housing with intensive case management |
| Bull 2008 [[20](#_ENREF_20)] | African American and Latina Women aged 15 to 25 | 2004-2006 | CA; NV | US |  |  |  | MM-SM |  |  |  | Cluster QE | CU | POWER (Prevention Options for Women Equals Rights) Social marketing campaign to increase use of both male and female condoms by young women in areas with high rates of STI and teen births |
| Busza 2004 [[21](#_ENREF_21)] | Migrant FSW | 2000-2001 | Phnom Penh, Cambodia | Southeast Asia |  |  |  |  | CM |  |  | B/A x-sect | CU | Promotion of female condoms to migrant FSW |
| Casalino 2012 [[22](#_ENREF_22)] | Patients in adult emergency department; HIV-negatives | 2009-2010 | Paris, France | Europe | PP-I |  |  |  |  |  | A-HT | B/A one group | HIV testing; Linkage to care | Routine HIV screening with a rapid test in emergency departments |
| CDC ACDP 1999 [[23](#_ENREF_23)] | PWID; Female partners of PWID; FSW; NGI-MSM; High risk youth; Residents in high STI risk areas | 1994-1997 | CA; CO; NY; TX; WA | US |  |  |  |  |  |  | A-Cdm; A-SIE | B/A x-sect | CU; SIE | AIDS Community Demonstration Projects (ACDP): Theory-based community-level intervention in which community members distributed role model stories, condoms and bleach kits to promote behavior change |
| Cervantes 2003 [[24](#_ENREF_24)] | Substance abusing Hispanic mothers not in drug treatment | NR | Los Angeles, CA | US |  | PS-IS; PS-NPS |  |  |  |  | A-DT | B/A one group | Sex risk behavior | HIV prevention in substance abuse treatment for Hispanic women |
| Chan 2010 [[25](#_ENREF_25)] | HIV-positive primary care clinic patients; Low income/ indigent; Rural | 2004-2008 | Zomba, Malawi | Southern Africa | PP-G | PS-IS |  |  |  |  | A-HC | Cluster QE | Mortality; Retention in care | Decentralization of follow-up ART care to rural health facilities |
| Charalambous 2007 [[26](#_ENREF_26)] | South African employees | 2002-2005 | South Africa | Southern Africa |  | PS-NTS | CB-PT |  |  |  | A-HC | B/A one group | Viral suppression; CD4 count; ART adherence | Workplace HIV treatment program |
| Chiao 2009 [[27](#_ENREF_27)] | FSW | NR | 4 islands, Southern  Philippines | Southeast Asia | PP-I | PS-NTS | CB-PT |  | CM |  | A-Cdm; A-STI | Cluster RCT | CU; HIV testing; STI testing | Multiple interventions for female bar workers and community mobilization for FSW |
| Chipfakacha 1993 [[28](#_ENREF_28)] | Female and male sex workers | 1988 | Zimbabwe | Southern Africa | PP-G |  |  |  |  |  | A-STI | B/A x-sect; Serial x-sect | STI | STI prevention program for Shurugwi sex workers. Required health cards and STI testing for all sex workers. |
| Christopoulos 2011 [[29](#_ENREF_29)] | Emergency department patients; patients with HIV risk factors; Urban/Inner city | 2008-2010 | San Francisco, CA | US | PP-I |  |  |  |  |  | A-HT | Retro cohort; B/A x-sect | HIV testing | Testing and linkage to care for a clinician-initiated rapid HIV testing program in an urban emergency room |
| Cohen 1999 [[30](#_ENREF_30)] | Public clinics; high risk areas | 1994-1996 | LA | US |  |  |  | MM-SM |  |  | A-Cdm | B/A x-sect | CU | Statewide social marketing, free condoms in public clinics and over 1000 businesses in high STI risk neighborhoods |
| Conkling 2010 [[31](#_ENREF_31)] | Pregnant clinic patients at antenatal clinics | 2001-2002 | Kigali, Rwanda; Lusaka, Zambia | Central Africa; East Africa |  |  | CB-PT |  |  |  | A-HC; A-HT | Prospective cohort; After only, two groups | Engaged in care; ART adherence | Couples VCT and nevirapine use in antenatal clinics |
| Cunningham 2005 [[32](#_ENREF_32)] | Homeless PLWH | 1999-2000 | Bronx, NY | US |  | PS-NTS |  |  |  |  | A-HC | B/A x-sect | CD4 count; ART uptake; ART adherence | Medical outreach program for homeless PLWH in single room occupancy hotels |
| Davila 2013 [[33](#_ENREF_33)] | African Americans; HIV-positive clinic patients; Hispanic/Latino; Youth | 2002-2008 | Houston, TX | US |  | PS-NPS |  |  |  |  | A-HC | B/A x-sect | Retention in care | Centralization of clinical care and addition of supportive services to youth HIV clinic to improve retention in care |
| de Vroome 1990 [[34](#_ENREF_34)] | General public, targeted high risk groups such as FSW and clients, ethnic minority groups, STI clinic patients | 1987-1989 | Netherlands | Europe |  |  |  | MM-SM |  |  |  | B/A x-sect | CU; STI | Mass media campaigns initiated by the Dutch government on various aspects of AIDS with supplementary AIDS prevention campaigns |
| Dennison 1998 [[35](#_ENREF_35)] | Pregnant women in antenatal clinic; Urban/inner city | 1995 | London, UK | Europe | PP-I | PS-IS | CB-PT |  |  |  | A-HT | B/A one group | HIV testing | Antenatal HIV screening in inner city population |
| Du 2011 [[36](#_ENREF_36)] | General population | 2008 | US | US | PP-G |  |  |  |  |  | A-HT | Retro cohort | HIV testing | Opt-in vs opt-out state laws for HIV testing |
| Egger 2000 [[37](#_ENREF_37)] | Motels in high risk areas | 1997 | Managua, Nicaragua | Latin America & Caribbean |  |  |  |  |  |  | A-Cdm | Cluster RCT | CU | Condoms provided in motels, either on check-in, on request, or placed in room |
| Elkins 1997 [[38](#_ENREF_38)] | Rural women and men | 1991-1992 | Thailand | Southeast Asia |  |  |  | MM-NI; MM-SM |  |  |  | Cluster RCT | CU; UPS | Narrative intervention to encourage risk reduction practices, particularly among and with FSW |
| Eloundou-Enyegue 2005 [[39](#_ENREF_39)] | Adolescent and young adult males aged 16 to 26 years | 1993-1996 | Dar es Salaam, Tanzania | East Africa |  |  |  | MM-SM |  |  |  | Retro cohort | CU | Tanzania Condom Social Marketing Program to reduce HIV/STI transmission by increasing CU through condom distribution, AIDS/STI education and condom brand promotion |
| Feldman 2004 [[40](#_ENREF_40)] | Physicians in residency; Health service providers | 1997-2000 | Minneapolis, MN | US | PP-I |  | CB-PT |  |  |  |  | QE | HIV testing | Development and evaluation of curriculum to train family practitioners in 5 residency programs in HIV care |
| Figueroa 2010 [[41](#_ENREF_41)] | Persons with new or multiple sex partners | 2005-2007 | Kingston, Jamaica | Latin America & Caribbean | PP-I | PS-NTS |  |  |  |  | A-Cdm; A-HT | RCT | CU; NSP; HIV testing | Multi-level site-based prevention program tailored to types of social sites (e.g., bars, hotels) to increase condom use |
| Fisher 2011 [[42](#_ENREF_42)] | PLWH | NR | CT | US |  |  | CB-T |  |  |  |  | RCT | ART adherence | Theory-based computer-administered antiretroviral therapy adherence support intervention delivered at routine clinical care visits |
| Ford 1996 [[43](#_ENREF_43)] | FSW and clients | 1994 | Bali, Indonesia | Southeast Asia |  |  |  | MM-SM |  |  | A-Cdm | B/A x-sect | CU | Education program for FSW, condom sales and distribution, media for clients |
| Fraze 2009 [[44](#_ENREF_44)] | African American females | 2005-2008 | Cleveland, OH; Philadelphia, PA | US |  |  |  | MM-SM |  |  | A-HT | B/A one group | HIV testing | Take Charge. Take the Test: HIV testing social marketing campaign |
| Fuller 2007 [[45](#_ENREF_45)] | PWID; Pharmacists | 2002-2003 | Harlem, NY | US |  |  | CB-PT |  |  |  | A-SIE | Cluster QE | IDU; SIE | Community-based participatory research partnership with a multilevel intervention to increase sterile syringe access |
| Futterman 2001 [[46](#_ENREF_46)] | Sexually active youth of color in high risk areas; heterosexual females and homo/bisexual males | 1999-2000 | CA; DC; FL; MD; NY; PA | US |  | PS-NTS |  | MM-SM |  |  | A-HT | B/A x-sect | HIV testing | Social marketing campaign to promote HIV testing among youth |
| Gao 2007 [[47](#_ENREF_47)] | Gay men and MSM | NR | Chengdu, China | East Asia |  |  |  | MM-NI |  |  |  | QE | CU | Gay bar based melodrama series on CU in gay community |
| Garcia 2012 [[48](#_ENREF_48)] | Truck drivers; FSW | 1990-1993 | Peru | Latin America & Caribbean |  |  | CB-PST |  |  |  | A-Cdm; A-STI | Cluster RCT | CU; HIV prevalence; STI prevalence | Strengthened STI management by pharmacists and clinicians; mobile outreach to FSW for STI treatment; condom promotion for FSW and general public |
| Ghys 2002 [[49](#_ENREF_49)] | FSW | 1991-1998 | Abidjan, Côte d'Ivoire | West Africa |  |  |  | MM-SM |  |  | A-HT; A-STI | Retro cohort | CU; HIV infection; STI | “Programme de Prévention et de Prise en charge des MST/SIDA chez les femmes libres et leurs Partenaires” (PPP) HIV prevention campaign for FSW |
| Gibson 2010 [[50](#_ENREF_50)] | PWID | 1999-2000 | Sacramento, CA | US |  |  |  | MM-SM |  |  |  | B/A one group; QE | SIE | HIV prevention social marketing campaign with 4 components: convenience advertising, wide distribution of a newsletter, late night broadcast of a television program on a public access channel, and distribution of prevention booklet in cartoon format. |
| Godin 2008 [[51](#_ENREF_51)] | MSM | 2002-2003 | Québec City, Québec | Canada |  |  |  | MM-SM |  |  | A-Cdm | Time series | UPS | Safe sex promotion program in gay bars, saunas, and sex shops |
| Goetz 2008 [[52](#_ENREF_52)] | Patients at VA health facilities | 2004-2006 | CA; NV | US | PP-I | PS-IS |  |  |  |  | A-HT | QE | HIV testing | 5 VA hospital clinic reminders and feedback reports for HIV testing |
| Goetz 2009 [[53](#_ENREF_53)] | Health care providers; Patients at risk for HIV attending VA health clinics | 2004-2006 | CA; NV | US | PP-I |  | CB-T | MM-SM |  |  | A-HT | B/A x-sect; Serial x-sect | HIV testing | Improving HIV testing in the 5 VA facilities at systems level with clinical reminder and feedback |
| Golden 1996 [[54](#_ENREF_54)] | Newly diagnosed PLWH; STI clinic patients | 1991-1993 | Baltimore, MD | US |  | PS-IS |  |  |  |  | A-STI | Retro cohort | STI | Early intervention medical and social work services for newly diagnosed HIV-positive persons who underwent posttest counseling |
| Gomez 1999 [[55](#_ENREF_55)] | Low-income Latina immigrant women | NR | Northern CA | US |  |  |  |  | CM |  |  | B/A one group | CU | Empowerment model for HIV prevention in Latina immigrant women |
| Grabbe 2010 [[56](#_ENREF_56)] | High risk area; Rural; Urban/Inner city | 2005-2006 | Kenya | East Africa |  | PS-NPS |  |  |  |  | A-STI | Retro cohort; After only: four group comparison | HIV testing | Comparison of mobile HIV testing approaches against stand-alone site |
| Gray 1995 [[57](#_ENREF_57)] | PWID; Rural | 1992-1994 | Chiang Rai, Thailand | Southeast Asia |  |  |  |  |  |  | A-SIE | B/A x-sect | HIV infection; SIE | Needle exchange ; |
| Greenwald 2006 [[58](#_ENREF_58)] | Hospital inpatients | 1999-2003 | Boston, MA | US | PP-I |  |  |  |  |  | A-HT | B/A x-sect; Serial x-sect | HIV testing; HIV infection | Offer of HIV testing in inpatient setting without physician referral requirement at large medical center |
| Gregson 2007 [[59](#_ENREF_59)] | FSW and male clients | 1998-2003 | Zimbabwe | Southern Africa |  | PS-NTS |  |  |  |  | A-Cdm; A-HT; A-STI | Cluster RCT | HIV infection; STI; UPS; sex initiation; NSP | Community-based peer education, free condom distribution, training providers for improved STI management, and clinic open days with HIV/AIDS info to promote safer sex and uptake of STI treatment |
| Griffith 2010 [[60](#_ENREF_60)] | African Americans; Low income/ Indigent; Young adults; Youth | 2004-2007 | Flint, MI | US |  |  |  |  | CM | SDH-A |  | B/A one group | CU | Faith-based community-based participatory research project to increase HIV/AIDS awareness and reduce HIV-related stigma among African American faith community |
| Grimes 2001 [[61](#_ENREF_61)] | Pregnant females | 1995 to 2000 | Houston, TX | US | PP-I |  | CB-PT |  |  |  |  | B/A x-sect | HIV testing | Continuing medical education program to increase HIV testing of pregnant women attending maternity clinics in Houston |
| Grosskurth 1995 [[62](#_ENREF_62)] | Rural | 1991-1994 | Mwanza, Tanzania | East Africa |  | PS-NPS | CB-PT |  |  |  | A-Cdm; A-STI | Cluster RCT | HIV infection; Sex risk behavior; STI | Improved STI services in primary health care system, to reduce HIV incidence |
| Guttmacher 1998 [[63](#_ENREF_63)] | Youth | 1991 | New York, NY | US | PP-I |  |  |  |  |  | A-Cdm | Cluster QE | CU; UPS | Condom availability in high schools |
| Guy 2009 [[64](#_ENREF_64)] | MSM | 2004-2005 | Melbourne, Australia | Australia |  |  |  | MM-SM |  |  |  | B/A x-sect | HIV testing | Social marketing campaign for MSM to increase regular HIV and STI testing and promote sexual health |
| Guydish 1993 [[65](#_ENREF_65)] | PWID | 1987-1990 | San Francisco, CA | US |  |  |  |  |  |  | A-SIE | B/A one group; QE | IDU; SIE | Comparison of neighborhoods with vs without needle exchange programs |
| Hagan 1993 [[66](#_ENREF_66)] | PWID | 1988-1989 | Tacoma, WA | US |  | PS-NPS |  |  |  |  | A-SIE | B/A one group | IDU; SIE | Effectiveness of first legally operated needle exchange program in United States |
| Hammett 2006 [[67](#_ENREF_67)] | PWID in high risk area | 2002-2004 | Guangxi, China; Lang Son, Vietnam | East Asia; Southeast Asia |  |  |  |  |  |  | A-SIE | B/A x-sect | IDU; SIE | HIV prevention intervention of sterile equipment and information diffused for PWID |
| Handy 2006 [[68](#_ENREF_68)] | General population; Men and women; MSM and MSMW; Sex workers | 2004-2005 | Newcastle, UK | Europe | PP-I |  |  |  |  |  | A-STI | B/A one group | HIV testing | Drop-in, nurse-led clinic provided to expand access to HIV testing |
| Hanenberg 1994 [[69](#_ENREF_69)] | Clients of FSW | 1989 | Thailand | Southeast Asia | PP-G |  |  | MM-SM |  |  | A-Cdm | B/A x-sect | CU; HIV infection; STI | Thai 100% Condom Use Program: HIV control program by government with condom distribution to cover much of commercial sex in the country, sanctions against sex establishments where condoms were not used consistently and media campaign on TV and radio to use condoms for sex with FSW |
| Harris 2008 [[70](#_ENREF_70)] | HIV-positive and TB patients in ART and TB clinics; Urban/inner city | 2005-2007 | Zambia | Central Africa | PP-I | PS-IS | CB-PT |  |  |  | A-HC; A-HT | B/A one group | HIV testing; Linkage to care | Integration of HIV and TB care and offer of HIV testing to TB patients |
| Hart 1989 [[71](#_ENREF_71)] | PWID | 1987-1988 | London, UK | Europe |  |  |  |  |  |  | A-SIE | B/A one group | IDU; SIE; NSP | Needle exchange program in Middlesex Hospital |
| Harte 2008 [[72](#_ENREF_72)] | PLWH; Urban/inner city | 2004-2005 | London, UK | Europe | PP-I | PS-NTS |  |  |  |  | A-STI | Retro cohort; After only, two groups | Viral load; Engaged in care | Home delivery service of ART |
| Haukoos 2007 [[73](#_ENREF_73)] | Emergency department patients at high risk for HIV; HIV-negative persons; Urban/inner city | 2004-2007 | Denver, CO | US | PP-I |  |  |  |  |  | A-HT | B/A one group | HIV testing; Linkage to care | Highly selective physician-determined rapid HIV testing in emergency department setting with counseling and referral to services |
| Henderson 2011 [[74](#_ENREF_74)] | Pharmacy-based HIV clinic patients; Treatment experienced; Non-adherent to treatment | 2009 | Denver, CO | US |  | PS-IS |  |  |  |  | A-STI | Prospective cohort; B/A one group | ART adherence; Viral load; CD4 count | Pharmacist managed adherence clinic |
| Henry 2012 [[75](#_ENREF_75)] | African Americans; Clinic patients; Drug users; PLWH; Homeless; Military; Mentally ill; STI diagnosis | 2007 | Los Angeles, CA | US |  |  | CB-T |  |  |  |  | Cluster RCT | Retention in care | Telephone reminders for HIV care |
| Herbert 2012 [[76](#_ENREF_76)] | Patients attending the open-access returning traveler clinic | 2008-2010 | London, UK | Europe | PP-I |  |  |  |  |  | A-HT | B/A x-sect | HIV testing | Nurse-delivered universal point of care testing for HIV in Hospital for Tropical Diseases |
| Hightow-Weidman 2011 [[77](#_ENREF_77)] | PLWH; African Americans; Latino; MSM; Young adults; Youth | 2006-2009 | NC | US |  | PS-NTS |  | MM-SM |  |  | A-HC; A-HT | B/A one group | HIV testing; Engaged in care; ART uptake; Retention in care | Social marketing campaign for minority young MSM to diagnose, engage, and retain newly positive minority young MSM |
| Hirsch 2009 [[78](#_ENREF_78)] | PLWH on ART | 2004-2005 | CA | US | PP-I | PS-IS | CB-PT |  |  |  | A-HT | QE | ART adherence | Pharmacist provided medication therapy management |
| Hogben 2010 [[79](#_ENREF_79)] | Young adults; Youth | 2001-2005 | US | US | PP-G |  |  |  |  |  |  | Retro cohort | STI | State level sexuality education policies |
| Holman 1994 [[80](#_ENREF_80)] | Pregnant or postpartum females | 1990-1992 | NY | US | PP-I |  |  |  |  |  | A-HT | B/A one group | HIV testing | Statewide obstetrical HIV counseling and testing in 24 hospitals |
| Hsieh 2011 [[81](#_ENREF_81)] | Emergency department patients; HIV-negatives; Low income/ Indigent; Urban/Inner city | 2005-2007 | Baltimore, MD | US | PP-I |  |  |  |  |  | A-HT | QE | HIV testing; Linkage to care | Rapid oral HIV testing services using exogenous vs. indigenous staffing model, vs. hybrid staffing model in urban emergency department |
| Jacob Arriola 2007 [[82](#_ENREF_82)] | PLWH; African Americans; People of color; Incarcerated | 2001-2004 | FL; GA; IL; MA; NJ | US | PP-I |  |  |  |  |  | A-HC | QE | Sex risk behavior | Case management for inmates with HIV upon release |
| Jana 1998 [[83](#_ENREF_83)] | FSW | 1992-1995 | West Bengal, India | South Asia |  |  |  |  | CM |  | A-Cdm | Serial x-sect | CU; STI; HIV infection | Sonagachi HIV/STI Intervention to reduce risky sex behaviors among FSWs and their clients with emphasis on respect for FSWs, recognition of their profession, and reliance on their understanding |
| Javanbakht 2009 [[84](#_ENREF_84)] | Incarcerated MSM | 2000-2005 | Los Angeles, CA | US | PP-I |  |  |  |  |  | A-STI | B/A x-sect | STI; STI testing; HIV infection; HIV testing | Voluntary vs mandatory screening for STIs and HIV for MSM in Los Angeles County Men’s Central Jail |
| Kagimu 1998 [[85](#_ENREF_85)] | Muslim communities | 1992-1994 | Uganda | East Africa |  |  | CB-PT |  |  |  |  | B/A x-sect | CU | Over 3,000 religious leaders and assistants trained to educate their communities on AIDS during home visits and religious gatherings |
| Kamali 2003 [[86](#_ENREF_86)] | Adults in rural areas | 1994-2000 | Masaka district, SW Uganda | East Africa |  |  | CB-PT |  |  |  |  | Cluster RCT | HIV infection; STI | Information, education and communication activities and improved management of STIs by training health workers in syndromic management of STIs and including drugs and supervision |
| Keating 2006 [[87](#_ENREF_87)] | Youth | 2000-2004 | Bauchi, Enugi, and Oyo states, Nigeria | West Africa |  |  |  | MM-SM |  |  |  | B/A one group | CU; UPS | VISION project (media campaign on HIV/AIDS awareness and prevention) |
| Keene 1993 [[88](#_ENREF_88)] | PWID; Rural; Urban/Inner city | 1990-1991 | Wales, UK | Europe |  |  |  |  |  |  | A-SIE | B/A x-sect | SIE | Syringe exchange program among opiate and non-opiate drug injectors |
| Kegeles 1996 [[89](#_ENREF_89)] | Young adult MSM | NR | Eugene, OR | US |  |  |  |  | CM |  |  | B/A x-sect | UPS; NSP; Sex risk behavior | MPowerment: Local young MSM participated in developing and delivering a community-level HIV prevention intervention for their community. Peer outreach, peer-led small groups; publicity campaign; a young men's center |
| Keitz 2001 [[90](#_ENREF_90)] | Physicians in general medicine clinic; PLWH | 1994-1998 | Durham, NC | US |  |  | CB-PT |  |  |  |  | RCT | ART uptake; ART adherence | Provider intervention for residents and physicians in HIV primary care |
| Kennedy 2000 [[91](#_ENREF_91)] | Sexually active youth in high risk area | 1996-1998 | Sacramento, CA | US |  |  |  | MM-SM |  |  |  | B/A x-sect | CU | Sacramento Prevention Marketing Initiative to increase condom use |
| Kerr 2010 [[92](#_ENREF_92)] | PWID | 1998-2003 | Vancouver, BC | Canada | PP-I |  |  |  |  |  | A-SIE | Prospective cohort | SIE; HIV infection | Syringe exchange policy change from syringe exchange to syringe distribution |
| Kerrigan 2006 [[93](#_ENREF_93)] | FSW | 1999-2000 | Santo Domingo & Puerto Plata, Dominican Republic | Latin America & Caribbean | PP-G |  |  |  |  |  | A-Cdm; A-STI | B/A one group; Serial x-sect | CU; STI | Community solidarity and government policy for FSW |
| Kerrigan 2008 [[94](#_ENREF_94)] | FSW | 2001-2003 | Rio de Janeiro, Brazil | Latin America & Caribbean |  |  |  |  | CM |  |  | B/A x-sect | CU | Community development for FSW based on Sonagachi Project |
| Khumalo-Sakutukwa 2008 [[95](#_ENREF_95)] | General population; Rural | NR | Tanzania; Zimbabwe; South Africa; Thailand | East Africa; Southern Africa; Southeast Asia |  | PS-NPS |  |  | CM | SDH-A | A-HT | Cluster RCT | HIV testing | Multilevel intervention providing community mobilization, community based HIV mobile VCT, and posttest support services |
| Klepp 1997 [[96](#_ENREF_96)] | Youth in primary school | 1992-1993 | Arusha and Kilimanjaro, Tanzania | East Africa |  |  |  |  |  |  | A-Cdm | Cluster RCT | Sex initiation | Education program in sixth grade to reduce children's risk of HIV and improve tolerance and care for people with AIDS |
| Knittel 2010 [[97](#_ENREF_97)] | PWID | 2003-2006 | Ypsilanti, MI | US |  |  |  |  |  |  | A-SIE | B/A one group | SIE | Evaluation of a small, peri-urban, legal needle exchange program |
| Ko 2009 [[98](#_ENREF_98)] | MSM | 2004-2006 | Taiwan | East Asia | PP-I | PS-NTS |  |  |  |  | A-Cdm | Cluster QE | CU; HIV infection; STI | Condom distribution and access at bathhouses |
| Kyaddondo 2012 [[99](#_ENREF_99)] | General population | 2008-2009 | Kumi district, Uganda | East Africa |  | PS-NTS |  |  |  |  | A-HT | B/A one group | HIV testing | Home-Based HIV counseling and testing |
| Landon 2004 [[100](#_ENREF_100)] | HIV-positive primary care clinic patients; Rural; Urban/Inner city | 2000-2001 | US | US |  |  | CB-PT |  |  |  |  | Cluster QE | ART uptake; Viral load; Engaged in care | A multi-institutional quality improvement collaborative to improve care for people with HIV in 69 Ryan White clinics |
| Larke 2010 [[101](#_ENREF_101)] | Adults; Young Adults; Youth | 1998-2001 | Mwanza, Tanzania | East Africa |  |  | CB-PT |  |  |  | A-Cdm; A-STI | Cluster RCT | STI; Engaged in care | Adolescent sexual health intervention services provided in a youth friendly manner |
| Lauby 2000 [[102](#_ENREF_102)] | High risk African American women | 1991-1996 | Philadelphia, PA; Pittsburgh, PA; Portland, OR | US |  |  |  |  |  |  | A-Cdm; A-SIE | B/A x-sect | CU; SIE | Prevention of HIV in Women and Infants Demonstration Project (WIDP) aimed to increase positive community norms and behaviors among women at risk for HIV infection |
| Laukamm-Josten 2000 [[103](#_ENREF_103)] | Truck drivers; FSW | 1990-1993 | TanZam Highway, Tanzania | East Africa |  |  |  | MM-NI; MM-SM |  |  | A-Cdm | B/A x-sect | CU; STI | Peer education and condom promotion at 7 truck stops along TanZam Highway |
| Liambila 2009 [[104](#_ENREF_104)] | Family planning clients in public-sector hospitals, health centers, and dispensaries | 2006-2007 | Central Province, Kenya | East Africa | PP-G | PS-IS | CB-PT |  |  |  | A-HT | B/A one group | HIV testing | HIV testing offered by family planning providers |
| Lipovsek 2010 [[105](#_ENREF_105)] | Male clients of FSW | 2004-2008 | Southern India | South Asia |  |  |  | MM-NI; MM-SM |  |  | A-Cdm | Time series | CU | Behavioral change communication program with interpersonal communication, posters in 100 FSW venues, affordable condoms, street theater and interactive gameshows followed by small group discussions |
| Liu 2007 [[106](#_ENREF_106)] | PWID | NR | Sichuan and Guangxi, China | East Asia |  |  |  |  |  |  | A-SIE | B/A x-sect; Serial x-sect | SIE; IDU | Needle exchange program models |
| Lowndes 2007 [[107](#_ENREF_107)] | FSW and male clients | 1993-2006 | Benin | West Africa |  | PS-NPS |  |  |  |  | A-STI | B/A x-sect | CU | Condoms and STI care intervention targeting male clients of FSW |
| Luque-Fernandez 2013 [[108](#_ENREF_108)] | Adult HIV-positive clinic patients that are treatment experienced | 2007-2011 | Cape Town, South Africa | Southern Africa | PP-I |  | CB-PT |  |  |  |  | After only, two groups | Engaged in care; Mortality; Viral load; Retention in care | Adherence clubs for adults on ART for > 18 months and virologically suppressed |
| MacGowan 2009 [[109](#_ENREF_109)] | Inmates | 2003-2006 | FL; LA; NY; WI | US | PP-I |  |  |  |  |  | A-HT | B/A one group | HIV infection; HIV testing | Rapid HIV testing in jails |
| Magnus 2010 [[110](#_ENREF_110)] | PLWH; MSM; People of color; Transgender persons; Young adults; Youth | 2006-2008 | CA; IL; MI; NC;NY; TX | US |  | PS-NPS | CB-PT | MM-SM |  |  | A-HC | Prospective cohort | Retention in care | SPNS demonstration projects for retention in care of young minority MSM |
| Marcus 2009 [[111](#_ENREF_111)] | Newly diagnosed HIV-positive patients from health departments with high risk sex partners | 2004-2008 | San Francisco, CA | US | PP-I |  |  |  |  |  | A-HT | B/A one group | HIV testing | Partner notification for HIV |
| Martinez-Donate 2004 [[112](#_ENREF_112)] | Youth in school | NR | Tijuana, Mexico | Latin America & Caribbean |  |  |  |  |  |  | A-Cdm | Cluster RCT | Sexual initiation | HIV prevention workshop and free condom distribution in Mexican high schools |
| Martínez-Donate 2010 [[113](#_ENREF_113)] | Heterosexually identified Latino MSMW | 2006 | San Diego, CA | US |  |  |  | MM-SM |  |  | A-Cdm; A-HT; A-STI | B/A x-sect | UPS; HIV testing | Hombres Sanos [Healthy Men], a social marketing campaign to increase CU and HIV testing including Spanish-language print materials, condom promotion posters, radio ads, free condoms, community-based outreach, promotional activities at local clubs, health exams including STI and HIV testing |
| Marum 2008 [[114](#_ENREF_114)] | Urban/inner city youth | 2001-2005 | Kenya | East Africa |  |  |  | MM-SM |  |  |  | B/A one group | HIV testing | Mass media campaign to encourage uptake of VCT services |
| Matovu 2002 [[115](#_ENREF_115)] | Adults | 1999-2000 | Rakai, Uganda | East Africa |  | PS-NTS |  |  |  |  | A-HT | B/A x-sect | HIV testing | Rakai Project counselling program for adults aged 15-49 years with home visits for HIV counseling, testing, and results |
| McCoy 1992 [[116](#_ENREF_116)] | PWID; PLWH | 1990-1991 | Miami, FL | US | PP-I |  | CB-PT |  |  |  |  | QE | IDU; SIE; NSP; CU; ART uptake; Engaged in care | Modification of case management programs for HIV-positive PWID |
| McDonald 2009 [[117](#_ENREF_117)] | PWID | 2005-2006 | Canberra, Australia | Australia |  | PS-NPS; PS-NTS |  |  |  |  | A-SIE | B/A one group | SIE | Syringe vending machines |
| McOwan 2002 [[118](#_ENREF_118)] | Gay and bisexual men of Black and South European Origin under 25 years old | 2000 | London, UK | Europe |  |  |  | MM-SM |  |  |  | B/A one group | HIV testing; CU; UPS | Multimedia HIV testing campaign |
| Meekers 2000 [[119](#_ENREF_119)] | Youth | 1996-1997 | Soweto, South Africa | Southern Africa |  |  |  | MM-SM |  |  |  | QE | CU | Targeted social marketing program to promote adolescent reproductive health behaviors |
| Meekers 2005 [[120](#_ENREF_120)] | Youth aged 13 to 24 years | 2000-2002 | Yaoundé and Douala, Cameroon | Central Africa |  |  |  | MM-NI; MM-SM |  |  |  | B/A x-sect | CU | "100% Jeune” social marketing campaign to improve CU through intensive youth-oriented mass media and interpersonal communications and widespread distribution of subsidized condoms |
| Metsch 2012 [[121](#_ENREF_121)] | HIV-negatives; PWID in treatment | 2009 | AZ; CT; MD; MO; NC; NM;OR; PA; SC; VA | US |  | PS-IS |  |  |  |  | A-HT | RCT | UPS; Sex risk behavior; SIE; HIV testing; Serostatus awareness | Risk reduction counseling and on-site HIV testing in drug treatment centers |
| Meyer 1991 [[122](#_ENREF_122)] | General population | 1986-1987 | France | Europe |  |  | CB-PT | MM-SM |  |  | A-Cdm; A-STI | Cluster RCT | STI | STI prevention program in French health departments |
| Mollen 2008 [[123](#_ENREF_123)] | Emergency department patients aged 14–24 years (youth and young adults) | 2003-2006 | Philadelphia, PA | US | PP-I |  |  |  |  |  | A-HT | Cluster QE | HIV infection; HIV testing; Linkage to care | 30-minute sexual health counseling with optional HIV testing and linkage to care for persons testing HIV positive |
| Morisky 2005 [[124](#_ENREF_124)] | Taxicab and tricycle drivers | 1999-2000 | Lapu-Lapu & Mandawe City, Philippines | Southeast Asia |  |  |  | MM-SM |  |  |  | Cluster QE | CU | Peer Education Program to increase HIV/AIDS knowledge, attitudes toward condoms, and CU behavior among taxicab and tricycle drivers |
| Morris 2001 [[125](#_ENREF_125)] | Sugar mill employees | 1999-2000 | Kwa-Zulu Natal, South Africa | Southern Africa |  |  |  |  |  |  | A-Cdm | B/A x-sect | CU | HIV care package (i.e., condom promotion, social marketing, mass educational initiatives, peer counselors, therapeutic isoniazid and cotrimoxazole prophylaxis) in occupational setting for sugar mill employees ; |
| Muñoz 2011 [[126](#_ENREF_126)] | ART-naïve PLWH; High risk area; Low income/Indigent; Tertiary public hospital patients | 2005-2007 | Lima, Peru | Latin America & Caribbean |  | PS-NTS |  |  |  | SDH-S |  | Prospective cohort | Viral load; Mortality | DOT of ART, coupled with peer support groups and microfinance |
| Myers 2009 [[127](#_ENREF_127)] | Health clinic patients | 2006-2008 | MS NC SC | US | PP-I |  |  |  |  |  | A-HT | B/A x-sect | HV testing; Linkage to care | Routine HIV testing program implemented in 6 community health centers |
| Nelson 1996 [[128](#_ENREF_128)] | Males aged 21 years | 1991-1995 | Northern Thailand | Southeast Asia | PP-G |  |  | MM-SM |  |  | A-Cdm | Serial x-sect | HIV infection; CU | Thailand's Ministry of Public Health CU Program to promote CU during commercial sex |
| Ng'weshemi 1996 [[129](#_ENREF_129)] | Males; Urban/Inner city | 1991-1996 | Mwanza, Tanzania | East Africa |  | PS-NPS; PS-NTS |  |  |  |  | A-STI | B/A one group | NSP; CU; UPS; STI | STI treatment in urban textile factory |
| Nigro 2000 [[130](#_ENREF_130)] | PWID | NR | Sicily, Italy | Europe | PP-I | PS-NTS |  |  |  |  | A-SIE | B/A x-sect; Serial x-sect | SIE | 6-month pilot of needle exchange program |
| Odek 2009 [[131](#_ENREF_131)] | FSW; Low income/ indigent; Urban/inner city | 2003-2005 | Nairobi, Kenya | East Africa |  |  | CB-PT |  | CM | SDH-S |  | B/A one group | Sex risk behavior | Microenterprise program and peer-mediated HIV intervention |
| O'Leary 1996 [[132](#_ENREF_132)] | College students | NR | NJ | US |  |  |  | MM-NI |  |  | A-Cdm | QE | Sex risk behavior; NSP | Multiple component intervention on college campus including; video, Sex Matters, developed by and for campus students; safer sex stories in campus newspaper, and campus talk radio program. |
| O'Leary 2007 [[133](#_ENREF_133)] | General population | 2002-2003 | Botswana | Southern Africa |  |  |  | MM-NI |  | SDH-A |  | After only, two groups | HIV stigma | HIV narrative story line in Bold and the Beautiful |
| Olshefsky 2007 [[134](#_ENREF_134)] | Latinos living on the California-Mexico border | 2002-2003 | San Diego & Imperial Valley, CA | US |  |  |  | MM-SM |  |  |  | B/A x-sect | HIV testing | Social marketing campaign *Tu No Me Conoces (You Don't Know Me)* to promote awareness of HIV risk and testing in Latinos living on the California-Mexico border |
| Papaevangelou 1988 [[135](#_ENREF_135)] | FSW | 1984 –1987 | Athens, Greece | Europe | PP-G |  |  | MM-SM |  |  |  | B/A x-sect | HIV infection; STI | Intensive educational campaign with HIV screening of FSW every 3 months |
| Parry 2004 [[136](#_ENREF_136)] | HIV-positive clinic patients and hospital in-patients | 1995-2001 | Stamford, CT | US | PP-I | PS-NPS | CB-H; CB-PT; CB-T |  |  |  | A-HC | B/A x-sect; Serial x-sect | HIV infection; CD4 count; Viral load | Comprehensive disease management approach including electronic database to standardize care |
| Pauw 1996 [[137](#_ENREF_137)] | General public in high-risk areas | 1991-1992 | Managua, Nicaragua | Latin America & Caribbean |  |  |  | MM-SM |  |  | A-Cdm | QE | CU; NSP; Abstinence; Sex risk behavior | House to house campaign with activities in schools and public meeting places. Condoms were offered and information was given to the public over loudspeakers installed on the roof of a car. |
| Peak 1995 [[138](#_ENREF_138)] | PWID | 1991-1994 | Kathmandu, Nepal | South Asia |  |  |  |  |  |  | A-SIE | B/A x-sect | SIE; Sex risk behavior; HIV infection | Harm-reduction education and needle exchange program |
| Peltzer 2004 [[139](#_ENREF_139)] | Rural youth | 2001-2002 | Limpopo Province, South Africa | Southern Africa |  |  |  | MM-SM |  | SDH-A | A-STI | B/A x-sect | NSP | HIV prevention intervention messages in rural youth (15-24 years) in South Africa |
| Pfeiffer 2010 [[140](#_ENREF_140)] | Clinic patients (primary healthcare) in high risk area | 2001-2007 | Mozambique | Southern Africa |  | PS-IS | CB-PT |  |  |  | A-HC | B/A one group | Retention in care | ART scale-up and integration of HIV/AIDS services in primary care |
| Proeschold-Bell 2010 [[141](#_ENREF_141)] | HIV-positive clinic patients at infectious disease clinics | 2002-2004 | NC | US | PP-I |  | CB-T |  |  |  |  | RCT | CD4 count; Viral load; ART uptake | Information exchange program between primary care providers and case managers |
| Pronyk 2006 [[142](#_ENREF_142)] | Low income women in villages | 2001-2005 | Limpopo province, South Africa | Southern Africa |  |  |  |  |  | SDH-S |  | Cluster RCT | HIV testing; NSP; UPS; HIV infection | Intervention with Microfinance for AIDS and Gender Equity (IMAGE) study and HIV training curriculum |
| Reza-Paul 2008 [[143](#_ENREF_143)] | FSW; Urban/inner city | 2004-2006 | Mysore, India | South Asia |  | PS-NPS; PS-NTS |  | MM-SM | CM | SDH-S | A-Cdm; A-STI | B/A x-sect | CU; STI; HIV infection | Community led intervention for FSW |
| Richardson 2004 [[144](#_ENREF_144)] | HIV-positive clinic patients | 1998-2000 | CA | US | PP-I |  | CB-PT |  |  |  |  | RCT | UPS | Brief safer sex counseling using provider delivered messages (gain and loss frame) for HIV-positive clinic patients |
| Richter 2011 [[145](#_ENREF_145)] | Employees at ExxonMobil worksites | 2005 | Angola; Cameroon; Chad; Cote D'Ivoire; Equatorial Guinea; Kenya; Nigeria | Central, West, and East Africa | PP-I |  |  |  |  |  | A-HC; A-HT | B/A one group | HIV testing; Sex risk behavior | Workplace-based intervention to expand medical coverage and offer referral for testing and treatment |
| Robbins 2012 [[146](#_ENREF_146)] | Clinicians; HIV-positive clinic patients | 2007-2008 | Boston, MA | US |  |  | CB-T |  |  |  |  | RCT | CD4 count; Retention in care | Clinical decision support system implemented in Massachusetts General Hospital HIV Clinic |
| Robles 1998 [[147](#_ENREF_147)] | PWID | 1995-1996 | San Juan, PR | US |  | PS-NPS |  |  |  |  | A-SIE | B/A one group | SIE; IDU | Effectiveness of first needle exchange program in Puerto Rico |
| Rose 2010 [[148](#_ENREF_148)] | Medical providers of PLWH | 2004-2006 | Northern CA | US |  |  | CB-PT |  |  |  |  | RCT | NSP; Sex risk behavior; UPS | Provider intervention for assessing sexual risk behavior with PLWH and delivering risk-reduction oriented prevention messages |
| Rosenberg 2011 [[149](#_ENREF_149)] | Female enrollees of microfinance programs | 2009 | Limbe, Haiti | Latin America & Caribbean |  |  |  |  |  | SDH-S |  | After only, two groups | Sex risk behavior | Microfinance program to help reduce HIV risk behavior in Haitian women |
| Ross 2004 [[150](#_ENREF_150)] | Urban African Americans | 1998-2000 | Houston, TX | US |  |  |  | MM-SM |  |  | A-Cdm | Cluster QE | CU | Syphilis prevention media campaign in 2 urban African American communities |
| Ross 2007 [[151](#_ENREF_151)] | Adolescents in rural area | NR | Mwanza, Tanzania | East Africa |  |  |  |  |  |  | A-Cdm; A-STI | RCT | STI; HIV infection; CU | Adolescent sexual health intervention in Tanzania |
| Rosser 1991 [[152](#_ENREF_152)] | MSM | NR | Australia | Australia |  |  |  | MM-SM |  |  |  | QE | CU; Sex risk behavior | General public education campaign on behavior of homosexually active men using violence and fear to raise awareness |
| Sakondhavat 2000 [[153](#_ENREF_153)] | Rural families | NR | Khon Kaen Province, Thailand | Southeast Asia |  |  |  | MM-SM |  |  |  | Cluster QE | CU | AIDS Prevention Strategies (e.g., training workshops, AIDS educational medial, women's empowerment) in Northeastern Thailand |
| Sakondhavat 1997 [[154](#_ENREF_154)] | FSW | NR | Khon Kaen City, Thailand | Southeast Asia | PP-G |  | CB-PT |  |  |  | A-Cdm | B/A one group | CU; STI; HIV infection | Policy for 100% condom use at brothels |
| Schuster 1998 [[155](#_ENREF_155)] | High school students; Urban/inner city | 1992-1993 | Los Angeles, CA | US | PP-I |  |  |  |  |  | A-Cdm | B/A one group | CU; UPS; Sex initiation | Condom availability in Los Angeles high schools |
| Scott 2009 [[156](#_ENREF_156)] | Emergency department patients; Hospital in-patients; Outpatient HIV testing patients; Urban/inner city | 2006-2007 | Washington DC | US | PP-I |  |  |  |  |  | A-HT | B/A one group | HIV testing | Hospital-wide routine HIV screening with confirmatory testing and referral to care for persons testing positive for HIV |
| Sellers 1994 [[157](#_ENREF_157)] | Latino youth at high risk | 1990-1991 | Boston, MA | US |  |  |  | MM-SM |  |  | A-Cdm | QE | NSP | Community based AIDS prevention program included promotion and distribution of condoms and social media campaign to promote CU |
| Servegev 1999 [[158](#_ENREF_158)] | PWID | 1996-1998 | Yaroslavl, Russia | Europe |  | PS-NPS; PS-NTS |  |  |  |  | A-SIE | B/A one group | IDU; SIE; CU; UPS | Harm reduction for PWID |
| Shagufta 2007 [[159](#_ENREF_159)] | Genitourinary clinic patients | 2006 | UK | Europe | PP-I | PS-IS |  |  |  |  | A-HT | B/A one group | HIV Testing | Opt-out testing policy genitourinary clinics |
| Sherer 2008 [[160](#_ENREF_160)] | Chinese physicians | 2004-2006 | Hubei, China | East Asia | PP-G |  | CB-PT |  |  |  | A-HC | B/A one group | AIDS mortality | Provider training to increase competence in HIV care |
| Sikkema 2000 [[161](#_ENREF_161)] | Women in high risk areas | 1994-1996 | NY OH VA WA WI | US |  |  |  |  | CM |  |  | Cluster RCT | CU | Opinion leaders were recruited to provide input on risk reduction workshop and to host community events |
| Sikkema 2007 [[162](#_ENREF_162)] | Persons with severe mental illness | NR | 2 Northeast cities, US | US |  |  | CB-PT |  |  |  |  | B/A one group | CU; NSP | HIV prevention intervention for persons with severe mental illness living in supportive house programs |
| Silva 2007 [[163](#_ENREF_163)] | Emergency department patients; HIV-negatives; Urban/inner city | 2003-2004 | Chicago, IL | US | PP-I | PS-IS |  |  |  |  | A-HT | B/A one group | HIV testing; Linkage to care | Routine rapid HIV testing for emergency department patients and referral to service for HIV-positive patients |
| Sirotin 2010 [[164](#_ENREF_164)] | FSW | 2004-2006 | Tijuana, Mexico | Latin America & Caribbean | PP-G |  |  |  |  |  | A-HT; A-STI | Prospective cohort; After only, two groups | UPS | Government registration and HIV/STI testing of FSW |
| Sitapati 2012 [[165](#_ENREF_165)] | HIV-positive clinic patients; Urban/inner city | 2010 | San Diego, CA | US |  |  | CB-PT; CB-T |  |  |  |  | B/A one group | Retention in care | Patient-centered medical home quality improvement retention project |
| Smith 1996 [[166](#_ENREF_166)] | HIV-positive patients in outpatient clinics | 1992-1995 | London, UK | Europe | PP-I |  | CB-T |  |  |  |  | B/A one group | Engaged in care; Retention in care | Combining specialist and primary health care teams for HIV-positive patients |
| Sood 2004 [[167](#_ENREF_167)] | People in underserved communities | 2000-2002 | Uttar Pradesh, India | South Asia |  |  |  | MM-SM |  |  |  | B/A x-sect | CU | Community Media Initiative (CMI) project for underserved communities to improve knowledge, communication, and practices related to HIV/AIDS and STIs |
| Ssali 2005 [[168](#_ENREF_168)] | Traditional healers | 2000-2001 | Kiboga District, Uganda | East Africa |  |  | CB-PT |  |  |  |  | B/A one group | CU | HIV prevention and family planning training program for traditional healers |
| Stoltz 2007 [[169](#_ENREF_169)] | PWID | 2004-2005 | Vancouver, BC | Canada |  | PS-NPS |  |  |  |  | A-SIE | B/A one group | IDU; SIE | Safer injecting sites |
| Sturtevant 2009 [[170](#_ENREF_170)] | TB patients | 1991-2006 | Alberta | Canada | PP-G |  |  |  |  |  | A-HT | Retro cohort; Serial x-sect | HIV testing | Opt-out HIV testing for TB patients |
| Sundaram 2009 [[171](#_ENREF_171)] | Primary care providers | 2001 | Palo Alto, CA | US | PP-I | PS-IS | CB-PT; CB-T |  |  |  | A-HT | Cluster RCT | HIV testing | Computer based reminders with audit and feedback to VA physicians for HIV testing and risk screening in 5 VA primary health clinics |
| Swaddiwudhipong 1990 [[172](#_ENREF_172)] | Low socioeconomic FSW working in a semi-rural community | 1989-1989 | Tak Province, Thailand | Southeast Asia |  |  |  | MM-SM |  |  | A-Cdm; A-HT | Time series | CU; Sex risk behavior; STI; HIV infection | Health education program combined with provision of free condoms, regular HIV testing, health education information disseminated publicly through mass media. |
| Swendeman 2009 [[173](#_ENREF_173)] | FSW; Rural | 2000-2001 | West Bengal, India | South Asia |  | PS-NPS | CB-PT |  | CM | SDH-A; SDH-S | A-Cdm | Cluster QE | Sex risk behavior | Replication of Sonagachi Project (multi-faceted intervention with brothel-based FSW in red light district) |
| Sznitman 2011 [[174](#_ENREF_174)] | African American youth; High risk area | 2006-2009 | Macon, GA; Syracuse, NY | US |  |  |  | MM-SM |  |  |  | Cluster RCT | UPS; NSP | Mass media campaign using TV and radio for African American youth |
| Tambashe 2003 [[175](#_ENREF_175)] | Truck drivers | 1997-2000 | Burkina Faso | West Africa |  |  |  | MM-SM |  |  |  | B/A x-sect | CU | Migratoires de l’Afrique de l’Ouest Roulez Protégé mass media HIV/AIDs and CU campaign for truckers |
| Thielman 2006 [[176](#_ENREF_176)] | General population | 2003-2003 | Moshi, Tanzania | East Africa | PP-I | PS-IS |  | MM-SM |  |  | A-HT | B/A one group | HIV testing | Free VCT program and campaign |
| Topp 2011 [[177](#_ENREF_177)] | Patients attending primary care outpatient departments; Urban/inner city | 2008-2010 | Lusaka, Zambia | Central Africa | PP-I | PS-IS |  |  |  |  | A-HC; A-HT | B/A x-sect | HIV testing; Engaged in care | Routine opt-out provider initiated HIV testing and counseling program in 9 urban primary health-care clinics |
| Topp 2012 [[178](#_ENREF_178)] | HIV-positive patients referred for ART; Patients in HIV clinic and TB clinics; Urban/inner city | 2009-2011 | Lusaka, Zambia | Central Africa | PP-I | PS-IS |  |  |  |  | A-HC; A-HT | Prospective cohort | CD4 count; ART uptake; Retention in care | Provider initiated HIV testing and counseling services for identifying clients with early-stage HIV-related disease in 7 urban integrated primary care clinics |
| Torres 2011 [[179](#_ENREF_179)] | Emergency department patients | 2007-2008 | CA DC MI NY OH TX | US | PP-I | PS-IS |  |  |  |  | A-HT | Cluster QE | HIV testing; Linkage to care | Comparison of HIV screening programs in 6 emergency departments |
| Tripiboon 2001 [[180](#_ENREF_180)] | Married women | NR | Chiang Mai province, Thailand | Southeast Asia |  |  |  |  | CM |  |  | RCT | CU | HIV prevention program for married women in rural areas |
| Tyden 1996 [[181](#_ENREF_181)] | University students | 1989-1994 | Uppsala, Sweden | Europe |  |  |  | MM-SM |  |  |  | B/A x-sect | CU; NSP | Campaign in Student Health Center to inform university students about STIs and CU |
| Ubaidullah 2004 [[182](#_ENREF_182)] | Truck drivers | 1999-2000 | Andhra Pradesh, India | South Asia |  |  |  | MM-NI; MM-SM |  |  |  | B/A one group | CU; NSP | HIV prevention program for truck drivers in Chittoor District of Andhra Pradesh (India) to provide knowledge of HIV/AIDS, change their attitudes to sex, persuade them to increase the use of condoms for safer sex, and bring about changes in their sexual behavior |
| Underwood 2006 [[183](#_ENREF_183)] | Adolescents aged 13-19 years | 1999-2004 | Zambia | Central Africa |  |  |  | MM-SM |  |  |  | B/A one group | CU; Abstinence | The Helping Each other Act Responsibly Together (HEART) campaign for young people ages 13 to 19; provided information about STI, HIV/AIDS transmission and prevention, and promoted abstinence or consistent CU as viable risk-reduction |
| Uys 2009 [[184](#_ENREF_184)] | Nurses and PLWH | NR | Lesotho; Malawi; South Africa; Swaziland; Tanzania | Southern and East Africa |  |  |  |  | CM | SDH-A |  | B/A one group | Stigma; HIV testing | HIV stigma intervention in five African health care settings developed a stigma reduction intervention that included information and empowerment components |
| Van der Bij 2008 [[185](#_ENREF_185)] | Heterosexual; STI Clinic patients | 1994-2004 | Netherlands | Europe | PP-G |  |  |  |  |  | A-HT | Time series | HIV testing; Serostatus awareness | Change in national HIV testing policy in Holland |
| Van Rossem 2000 [[186](#_ENREF_186)] | Community leaders; Parents of youth; Urban youth; Teachers; Young adults | 1996-1997 | Edéa, Cameroon | Central Africa |  |  | CB-PT | MM-SM | CM |  | A-Cdm | QE | CU | Social marketing intervention to promote adolescent and young adult reproductive health |
| Vaughan 2000 [[187](#_ENREF_187)] | Not specified | 1995-1997 | Tanzania | East Africa |  |  |  | MM-NI |  |  |  | B/A x-sect; QE | CU; NSP; SIE | Entertainment-education radio soap opera on knowledge, attitudes and adoption of HIV/AIDS prevention behaviors |
| Vernon 1990 [[188](#_ENREF_188)] | High risk groups including MSM, FSW, soldiers, and prison inmates | 1988-1989 | Colombia | Latin America & Caribbean |  |  |  | MM-SM |  |  | A-Cdm | QE | CU | Three month radio campaign on condom's role in preventing AIDS, condom distribution posts in meeting places of targeted groups; informative talks to general public |
| Virga 2012 [[189](#_ENREF_189)] | HIV-positive clinic patients | 2008-2010 | Paterson, NJ | US |  |  | CB-T |  |  |  |  | Serial x-sect | CD4 count; Viral load; ART uptake; Retention in care | Web-based health information support system to facilitate quality improvement in HIV care and treatment in health centers |
| Visrutaratna 1995 [[190](#_ENREF_190)] | FSW; Urban/ Inner city | 1989-1992 | Chiang Mai, Thailand | Southeast Asia | PP-I |  |  |  | CM |  | A-Cdm | B/A x-sect | CU | Multifaceted condom use program in brothels |
| Visser 2004 [[191](#_ENREF_191)] | Students in secondary schools | NR | South Africa | Southern Africa |  |  | CB-PT |  |  |  |  | B/A one group | NSP; CU | HIV/AIDS prevention program in educational setting |
| Vu Thuong 2007 [[192](#_ENREF_192)] | FSW | 2002-2004 | Vietnam | Southeast Asia |  | PS-NPS; PS-NTS |  | MM-SM |  |  | A-Cdm; A-STI | B/A x-sect | STI; CU; UPS | HIV prevention intervention and STI services for FSW using mobile teams operating at multiple sites in five border provinces |
| Wackett 1998 [[193](#_ENREF_193)] | Young adults (aged 15-29 years) | 1997-1998 | Yukon | Canada |  |  | CB-T | MM-SM |  |  | A-Cdm | B/A x-sect | CU; Abstinence; NSP | "Style: doing the right thing" social marketing chlamydia education and prevention campaign for young adults in the Yukon |
| Walton 2004 [[194](#_ENREF_194)] | High risk area; Low income/ Indigent | 1999-2002 | LasCahobas, Haiti | Latin America & Caribbean |  | PS-IS |  |  |  |  | A-HC; A-STI | B/A one group | HIV testing | Integration of HIV prevention and care services |
| Wang 2009 [[195](#_ENREF_195)] | Physicians | NR | Anhui, China | East Asia |  |  | CB-PT |  |  |  |  | B/A one group | HIV testing; Stigma; CU | Intervention to train physicians in rural China on knowledge of HIV/STI prevention, diagnosis, treatment options, and HIV/STI behavioral risk reduction counseling |
| Wang 2012 [[196](#_ENREF_196)] | FSW | 2009-2011 | South China | East Asia |  | PS-NTS |  | MM-SM |  |  | A-STI | Cluster QE | HIV infection; STI | Comprehensive sexually transmitted infection services for FSW at clinics |
| Warner 2008 [[197](#_ENREF_197)] | STI clinic patients | 2003-2005 | Denver, CO; Long Beach, CA; San Francisco, CA | US |  |  |  | MM-NI |  |  |  | Other-Alternating comparison trial | STI | Narrative drama video shown in STI clinic |
| Watters 1994 [[198](#_ENREF_198)] | PWID; Urban/Inner city | 1986-1992 | San Francisco, CA | US |  |  |  |  |  |  | A-SIE | B/A x-sect | IDU; SIE | Needle exchange program |
| Waxman 2007 [[199](#_ENREF_199)] | Emergency department patients; High risk area | 2006 | Eldoret, Kenya | East Africa | PP-I |  |  |  |  |  | A-HT | B/A one group | HIV testing; Linkage to care | Emergency department rapid HIV testing and referral program |
| Weaver 2008 [[200](#_ENREF_200)] | Health care providers (nurse, nurse midwives and medical officers) | 2004 | Lobatse, Botswana | Southern Africa | PP-G | PS-IS | CB-PT |  |  |  | A-HT; A-STI | Cluster QE | HIV testing | Training program for providers based on new protocols and new national policy for syndromic management of STI |
| Wechsberg 1992 [[201](#_ENREF_201)] | African Americans; drug users out of treatment; PWID; Sex partners of PWID; Urban/ Inner city | NR | NC | US |  |  | CB-PT |  |  |  | A-DT | B/A x-sect | SIE; Sex risk behavior | Inner-city outreach program for injecting drug users and public housing community |
| Whiters 2010 [[202](#_ENREF_202)] | High risk inner-city substance users | 2004-2005 | Atlanta, GA | US |  | PS-NTS |  |  |  |  | A-HT | B/A one group | HIV Testing | Federally funded faith-based rapid HIV testing initiative |
| Williams 2003 [[203](#_ENREF_203)] | Miners, adults in township, and FSW | 1998-2000 | Carletonville, South Africa | Southern Africa |  |  | CB-PT |  |  |  | A-Cdm; A-HT; A-STI | B/A cross sectional | STI; HIV infection; CU | HIV intervention project for South African gold mining community that included community-based peer education, condom distribution, syndromic management of STIs, and presumptive STI treatment for FSW |
| Wolitski 2010 [[204](#_ENREF_204)] | Homeless PLWH | 2004-2007 | Baltimore, MD; Chicago, IL; Los Angeles, CA | US |  |  |  |  |  | SDH-S |  | RCT | Engaged in care; ART adherence; Sex risk behavior | Housing rental assistance for PLWH |
| Wood 2006 [[205](#_ENREF_205)] | PWID | 2003-2005 | Vancouver, BC | Canada |  | PS-NPS |  |  |  |  | A-SIE | Prospective cohort; After only, two groups | IDU; SIE | Safer injecting sites |
| Wu 2002 [[206](#_ENREF_206)] | Health professionals and villagers | 1998-1999 | Fuyang, China | East Asia |  |  | CB-PT |  |  |  |  | B/A x-sect | CU | Training-of-trainers workshop to increase HIV/AIDS knowledge and improve HIV testing attitudes, and CU among health professionals and villagers |
| Wu 2010 [[207](#_ENREF_207)] | Farmers in rural communities | 2005-2008 | Yunnan, China | East Asia |  |  |  |  | CM | SDH-A | A-Cdm | B/A x-sect | CU; Stigma | Community-based HIV/AIDS health education and behavioral intervention carried out by monks or women |
| Xiaoming 2000 [[208](#_ENREF_208)] | Semirural young adults age 18-30 | 1996-1997 | China | East Asia |  |  |  | MM-SM |  |  |  | QE | CU | Community-based AIDS prevention intervention that included videos, radio programs, written materials, small group discussions, home visits, individual counseling and a free supply of condoms |
| Yoder 1996 [[209](#_ENREF_209)] | Bemba speakers in Northern Zambia | 1991- 1992 | Zambia | Central Africa |  |  |  | MM-NI |  |  |  | B/A x-sect | CU; NSP | Radio drama to disseminate AIDS information. Church leaders were asked to tell their congregations about the program |
| Zetola 2008 [[210](#_ENREF_210)] | Clinic patients | 2003-2007 | San Francisco, CA | US | PP-I |  |  |  |  |  | A-HT | Time series | HIV testing | Elimination of written patient consent for HIV testing in San Francisco General Hospital Medical Center |
| Zhongdan 2008 [[211](#_ENREF_211)] | FSW | 2001-2003 | Wuhan, China | East Asia |  |  |  | MM-SM |  |  | A-Cdm; A-STI | B/A x-sect | CU; STI | 100% CU Program: Condom availability and use policies in entertainment establishments, STI services, educational sessions |
| Zimmerman 1997 [[212](#_ENREF_212)] | Gay men | NR | Mexico | Latin America & Caribbean |  |  |  |  | CM |  |  | QE | CU; NSP | Participants design and implement an HIV/AIDS prevention project with group discussion, outreach, referral to counseling, testing, and other medical and social services. The group organized community activities focused on community change and referral to social services |
| Zimmerman 2007 [[213](#_ENREF_213)] | Heterosexual young adults | 2003 | Knoxville, TN; Lexington, KY | US |  |  |  | MM-SM |  |  |  | Time series | CU | Televised safer sex mass media campaign in two southeastern cities |

a FSW: Female sex workers

b AZ: Arizona; BC: British Columbia; CA: California; CO: Colorado; CT: Connecticut; DC: District of Columbia; FL: Florida; GA: Georgia; IL: Illinois; KY: Kentucky; LA: Louisiana; MA: Massachusetts; MD: Maryland; MI: Michigan; MS: Mississippi; MO: Missouri; NC: North Carolina; NJ: New Jersey; NM: New Mexico; NV: Nevada; NY: New York; OH: Ohio; OR: Oregon; PA: Pennsylvania; PR: Puerto Rico; SC: South Carolina; TN: Tennessee; TX: Texas; UK: United Kingdom; US: United States; VA: Virginia; WA: Washington; WI: Wisconsin

cPP: Policy/Procedure; PP-I: Policy/Procedure—Institutional; PP-G: Policy/Procedure—Governmental

dPS: Physical structure; PS-IS: Physical structure—Integration of services; PS-NPS: Physical structure—New physical structure; PS-NTS: Physical structure—Service provided in non-traditional setting**;**

eCB: Capacity Building; CB-H: Capacity Building—Hiring/funding; CB-PT: Capacity Building—Provider/supervisor training; CB-T: Capacity Building—Technology

fMM: Mass Media; MM-NI: Mass Media—Narrative intervention; MM-SM: Mass Media—Social marketing

gCM: Community Mobilization;

hSDH: Social Determinants of Health; SDH-A: Social Determinants of Health—Acceptance and Respect; SDH-S: Social Determinants of Health—Survival

iA: Access; A-Cdm: Access—Condoms; A-HT: Access—HIV Testing; A-STI: Access—STI Testing; A-SIE: Access-sterile injection equipment; A-DT: Access—Drug treatment; A-HC: Access—HIV Health care

jB/A: Before/After; x-sect: cross-sectional; Retro cohort: Retrospective cohort; Rx: prescriptions

kCU: Condom use; QE: Quasi-experimental (non-randomized comparison trial); NSP: Number of sex partners

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