## Supplemental Digital Content 1. Outcome Definitions

| Outcome                      | Definition                                                                 |
|------------------------------|---------------------------------------------------------------------------|
| Proportion of males tested   | The number of males tested divided by total number of individuals tested   |
| HIV testing uptake           | The number of individuals tested divided by number of individuals offered testing or number of individuals eligible for testing. Both offered testing and eligible for testing were used to construct the denominator because of inconsistencies in how studies reported uptake |
| Positivity                   | Assessed by the number of males testing HIV positive divided by total number of males tested |
| New HIV diagnoses            | The number of males tested HIV positive for the first time divided by number of males testing HIV positive |
| First time testers           | The number of individuals tested for the first time/total individuals tested |
| Linkage                      | The number of HIV-positive individuals linked to care divided by the total number of HIV-positive individuals |
| ART initiation               | Created by dividing the number of HIV positive individuals who initiation/number of HIV positive individuals eligible to initiate |
| Viral suppression            | Described qualitatively as there were very few studies that reported on suppression |
**Supplemental Digital Content 2. Search Strategy**

**Databases Searched**
- PubMED
- Embase
- WHO Global Index Medicus
- Cochrane Library
- International Clinical Trials Registry Platform
- International Standard Randomized Controlled Trial Number Register
- ClinicalTrials.gov

**Conference Abstracts Searched**
- Conference on Retroviruses and Opportunistic Infections
- International AIDS Society Conference on HIV Sciences
- International AIDS Conference

**Search Number** | **Search Terms**
--- | ---
1 | HIV
2 | human immunodeficiency virus
3 | 1 or 2
4 | counsel*
5 | test
6 | testing
7 | tested
8 | 5 or 6 or 7
9 | community
10 | home
11 | house
12 | door
13 | mobile
14 | campaign
15 | bar
16 | workplace
17 | business
18 | church
19 | temple
20 | active
21 | school
22 | highway
23 | brothel
24 | bathhouse
25 | festival
26 | outreach
27 | van
28 | bicycle
29 | 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28
30 | 3 and 4 and 8 and 29
| Obs | Testing Approach | Author(s) | Year | Title | Source | WHO location | Key Population Category | % Male | Uptake | New Positive | Linkage | ART Initiation | Retention in care | VL Suppression |
|-----|------------------|-----------|------|-------|--------|--------------|------------------------|-------|-------|-------------|---------|---------------|-----------------|-------------|
| 1   | Home-based HTS   | Bell DN, Martinez J, Botwinick G, Shaw K, Walker LE, Dodds S, Sell RL, Johnson RL, Friedman LB, Sotheran JL, | 2003 | Case finding for HIV-positive youth: a special type of hidden population | article | AMERO | X | | | | | | |
| 2   | Home-based HTS   | Were WA, Mermin JH, Warai N, Awor AC, Bechange S, Moss S, Solberg P, Downing RG, Coutinho A, Bunnell RE | 2006 | Undiagnosed HIV infection and couple HIV discordance among household members of HIV-infected people receiving antiretroviral therapy | article | AFRO | X | | | | | | |
| 3   | Home-based HTS   | Menzies N, Abang B, Wanyenze R, Nuwaha F, Mugisha B, Coutinho A, Bunnell R, Mermin J, Blandford JM | 2009 | The costs and effectiveness of four HIV counseling and testing strategies in Uganda | article | AFRO | X | | | | | | |
| 4   | Home-based HTS   | Negin J, Wariero J, Mutuo P, Jan S, Pronyk P | 2009 | Feasibility, acceptability and cost of home-based HIV testing in | article | AFRO | X | | | | | | |

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| # | Type of HTS | Authors | Year | Title of the Study | Journal | PubMed ID |
|---|------------|---------|------|---------------------|---------|-----------|
| 6 | Home-based HTS | Obare F, Fleming P, Anglewicz P, Thornton R, Martinson F, Kapatuka A, Poulin M, Watkins S, Kohler | 2009 | Acceptance of repeat population-based voluntary counselling and testing for HIV in rural Malawi | article | AFRO | X |
| 7 | Home-based HTS | Lugada E, Levin J, Abang B, Mermin J, Muganlanzi E, Namara G, Gupta S, Grosskurth H, Jaffar S, Coutinho A, Bunnell R. | 2010 | Comparison of home and clinic-based HIV testing among household members of persons taking antiretroviral therapy in Uganda: results from a | article | AFRO | X |
| 8 | Home-based HTS | Mutale W, Michelo C, Jurgensen M, Fylkesnes K. | 2010 | Home-based voluntary HIV counselling and testing found highly acceptable and to reduce | article | AFRO | X |
| 9 | Home-based HTS | Tumwesigye E, Wana G, Kasasa S, Muganzi E, Nuwaha F. | 2010 | High uptake of home-based, district-wide, HIV counseling and testing in | article | AFRO | X X |
| 10 | Home-based HTS | Vreeman RC, Nyandiko WM, Braitstein P, Were MC, Ayaya SO, Ndege SK, Wiehe SE. | 2010 | Acceptance of HIV testing for children ages 18 months to 13 years identified through voluntary, home-based HIV counseling and testing in | article | AFRO | X |
| #  | Study Title                                                                 | Authors                                      | Year | Journal | PMID | Country/Region     | Study Type          |
|----|-----------------------------------------------------------------------------|----------------------------------------------|------|---------|------|--------------------|---------------------|
| 11 | Facility and home based HIV Counseling and Testing: a comparative analysis   | Mulogo EM, Abdulaziz AS, Guerra R, Baine SO. | 2011 | AFRO    |      | southwestern Uganda | HTS                 |
| 12 | Starting a home and mobile HIV testing service in a rural area of South     | Maheswaran H, Thulare H, Stanistreet D, Tanser F, Newell ML. | 2012 | AFRO    |      | South Africa       | HTS                 |
| 13 | Starting a home and mobile HIV testing service in a rural area of South     | Maheswaran H, Thulare H, Stanistreet D, Tanser F, Newell ML. | 2012 | AFRO    |      | South Africa       | HTS                 |
| 14 | Home-based HIV testing and counseling in rural and urban Kenyan communities | Dalal W, Feikin DR, Amoloh M, Ransom R, Burke H, Lugalia F, Ouma A, Laserson KF, Mermin J, Breiman | 2013 | AFRO    |      | Kenya              | HTS                 |
| 15 | Effect of home based HIV counselling and testing intervention in rural     | Doherty T, Tabana H, Jackson D, Naik R, Zembe W, Lombard C, Swanevelder S, Fox MP, Thorson A, Ekstrom AM, | 2013 | AFRO    |      | South Africa       | HTS                 |
| #  | Source | Authors                                                                 | Year | Title                                                                                                                                  | Type  | Journal | Included? |
|----|--------|-------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|
| 16 |        | Fylkesnes K, Sandoy IF, Jurgensen M, Chipimo PJ, Mwangala S, Michel C.   | 2013 | Strong effects of home-based voluntary HIV counselling and testing on acceptence and equity: a cluster randomised trial in Zambia    | article | AFRO    | X         |
| 17 |        | Helleringer S, Mkandawire J, Reniers G, Kallanani-Phiri L, Kohler HP.    | 2013 | Should home-based HIV testing and counseling services be offered periodically in programs of ARV treatment as prevention? A case study in Likoma (Malawi) | article | AFRO    | X X       |
| 18 |        | Medley A, Ackers M, Amolloh M, Owuor P, Muttai H, Audi B, Sewe M, Laserson K. | 2013 | Early uptake of HIV clinical care after testing HIV-positive during home-based testing and counseling in western Kenya                   | article | AFRO    | X X       |
| 19 |        | Osoti AO, John-Stewart G, Kiarie J, Richardson B, Kinuthia J, Krakowiak D, Farquhar C. | 2014 | Home visits during pregnancy enhance male partner HIV counselling and testing in Kenya: a randomized trial                           | abstract | AFRO    | X         |
| ID | Study Title                                                                 | Authors                                                                 | Year | Type   | Journal   | PID |
|----|----------------------------------------------------------------------------|------------------------------------------------------------------------|------|--------|-----------|-----|
| 20 | Home-based HTS: High HIV testing uptake and linkage to care in a novel program of home-based HIV counseling and testing with facilitated referral in KwaZulu-Natal, South Africa | van Rooyen H, Barnabas RV, Baeten JM, Phakathi Z, Joseph P, Krows M, Hong T, Murnane PM, Hughes J, Celum C. | 2013 | article | AFRO     | X   |
| 21 | Home-based HTS: HIV incidence and factors associated with seroconversion in a rural community home based counseling and testing program in Eastern Uganda | Okiria AG, Okui O, Dutki M, Baryamutuma R, Nuwagaba CK, Kansiime E, Ojamuge G, Mugwiri J, Fleuret J, King R, Bazeyo W, Lindan | 2014 | article | AFRO     | X   |
| 22 | Home-based HTS: Male partner acceptance of home-based syphilis and HIV testing offered to couples during pregnancy | Mark J.; Kinuthia J.; Osoti A.; Gone M.; Asila V.; Parikh S.; Krakowiak D.; Betz B.; Richardson B.; Roxby A.; Farquhar C. | 2015 | abstract | AFRO     | X   |
| 23 | Home-based HTS: Feasibility and effectiveness of two community-based HIV testing models in rural Swaziland | Parker LA, Jobanputra K, Rusike L, Mazibuko S, Okello V, Kerschberger B, Jouquet G, Cyr J. | 2015 | article | AFRO     | X   |
|   | Study ID | Study Title                                                                 | Authors                                                                 | Year | Journal | Type | PID | Notes |
|---|----------|-----------------------------------------------------------------------------|------------------------------------------------------------------------|------|---------|------|-----|-------|
| 24 | Home-based HTS | A hybrid mobile HIV testing approach for population-wide HIV testing in rural East Africa: an observational study | Chamie G, Clark TD, Kabami J, Kadede K, Ssemmondo E, Steinfeld R, Lavoy G, Kvarisiima D, Sang N, Jain V, Thirumurthy H, Liegler T, Balzer LB, Petersen ML, Cohen CR, Bukusi EA, Kamya MR, Liegler T, Balzer LB, Petersen ML, Cohen CR, Bukusi EA, Kamya MR | 2016 | AFRO | article | X   |       |
| 25 | Home-based HTS | Heterogeneity of the HIV epidemic in agrarian, trading, and fishing communities in Rakai, Uganda: an observational epidemiological study | Chang LW, Grabowski MK, Ssekubugu R, Nalugoda F, Kigozi G, Nantume B, Lessler J, Moore SM, Quinn TC, Reynolds SJ, Gray RH, Gomora M, Kigozi G, Nantume B, Lessler J, Moore SM, Quinn TC, Reynolds SJ, Gray RH, Gomora M | 2016 | AFRO | article | X   |       |
| 26 | Home-based HTS | Home-Based HIV Testing Among Pregnant Couples Increases Partner Testing and Outcomes | Krakowiak D.; Kinuthia J.; Osoti A.; Asila V.; Ann-Gene M.; Mark J.; Sharma M.; Barnabas R.V.; Farquhar C. | 2016 | AFRO | article | X   | X    |
| 27 | Home-based HTS | Does a male chip increase uptake of HIV testing by men? Lessons from HPTN 071 study | Phiri M.M.; Shanaube K.; Floyd S.; Sakala E.; Besa S.; Griffith S.; Ayles H. | 2016 | AFRO | abstract | X   | X    |
| No. | Study Title                                                                 | Authors                                                                 | Year | Type     | Journal | AFRO | X | X |
|-----|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|------|----------|---------|------|---|---|
| 28  | Does a male chip increase uptake of HIV testing by men? Lessons from HPTN 071 study | Phiri M.M.; Shanaube K.; Floyd S.; Sakala E.; Besa S.; Griffith S.; Ayles H. | 2016 | Abstract | AFRO | X | X |
| 29  | Expanding HIV testing and linkage to care in southwestern Uganda with community health extension workers | Asiimwe S, Ross JM, Arinaitwe A, Tumusiime O, Turyamureeba B, Roberts DA, O'Malley G, Barnabas RV | 2017 | Article  | AFRO | X |   |
| 30  | A Comparison of Home-Based Versus Outreach Event-Based Community HIV Testing in Ugandan Fisherfolk | Bogart LM, Wagner GJ, Musoke W, Naigino R, Linnemayr S, Maistrellis E, Klein DJ, Jumamil RB, Mukasa B, Bassett IV, Giordano TP, Wanyenze RK. | 2017 | Article  | AFRO | X |   |
| 31  | Integrating Family Planning and HIV Services at the Community Level: Formative Assessment with Village | Brunie A, Mucheri PNW, Akol A, Chen M, Mercer SJ, Petruney T. | 2017 | Article  | AFRO | X |   |
| 32  | Art coverage after 2 years of a utt intervention in Zambia: Findings from HPTN071 | Floyd S.; Phiri M.; Schaap A.; Macleod D.; Shanaube K.; Griffith S.; Beyers N.; Hayes | 2017 | Abstract | AFRO | X | X | X |
| PID | Home-based HTS | Author(s)                                                                 | Year | Title                                                                 | Journal | AFRO  | X | X |
|-----|---------------|---------------------------------------------------------------------------|------|----------------------------------------------------------------------|---------|-------|---|---|
| 33  |               | Geoffroy E, Schell E, Jere J, Khozomba N.                                 | 2017 | Going door-to-door to reach men and young people with HIV testing services to achieve the 90-90-90 treatment | article  | AFRO  | X | X |
| 34  |               | Hayes R, Floyd S, Schaap A, Shanaube K, Bock P, Sabapathy K, Griffith S, Donnell D, Piwowar-Manning E, El-Sadr W, Beyers N, Ayles H, Fidler S; HPTN 071 (PopART) Study Team. | 2017 | A universal testing and treatment intervention to improve HIV control: One-year results from intervention communities in Zambia in the HPTN 071 (PopART) | article  | AFRO  | X |   |
| 35  |               | Justman J, Reed JB, Bicego G, Donnell D, Li K, Bock N, Koler A, Philip NM, Mlambo CK, Parekh BS, Duong YT, Ellenberger DL, El-Sadr WM. | 2017 | Swaziland HIV Incidence Measurement Survey (SHIMS): a prospective national cohort study | article  | AFRO  |   | X |
| 36  |               | Mark J, Kinuthia J, Roxby AC, Krakowiak D, Osoti A, Richardson BA, Gone MA, Asila V, Panikh S, Farquhar C. | 2017 | Uptake of Home-Based Syphilis and Human Immunodeficiency Virus Testing Among Male Partners of Pregnant Women in | article  | AFRO  | X | X |
| Study ID | HTS Type | Authors | Year | Title | Publication Type | Journal | Affiliation |
|---------|----------|---------|------|-------|------------------|---------|-------------|
| 37      | Home-based HTS | Mark J, Kinuthia J, Roxby AC, Krakowiak D, Osoti A, Richardson BA, Gone MA, Asila V, Panikh S, Farquhar C. | 2017 | Uptake of Home-Based Syphilis and Human Immunodeficiency Virus Testing Among Male Partners of Pregnant Women in Western Kenya | Article | AFRO | X X |
| 38      | Home-based HTS | Ogirima, F., Muhammed, R., Agada, G., Christopher Izere, P., Abutu, I., Udeh, E., Jwanle, P., Ashie, M., Ameh, B., Ujah, J., & Oyeledun, B. | 2017 | Bridging the HIV treatment gap using a door to door strategy: experience from the community care program in Benue state Nigeria | Abstract | AFRO | X |
| 39      | Home-based HTS | Oluoch P, Orwa J, Lugalia F, Mutinda D, Gichangi A, Oundo J, Karama M, Nganga Z, Galbraith J. | 2017 | Application of psychosocial models to Home-Based Testing and Counseling (HBTC) for increased uptake and household coverage in a large informal urban area | Article | AFRO | X X |
| 40      | Home-based HTS | Shanaube K, Schaap A, Chaila MJ, Floyd S, Mackworth-Young C, Hoddinott G, Hayes R, Fidler S, Ayles H; HPTN 071 (PopART) Study Team.. | 2017 | Community intervention improves knowledge of HIV status of adolescents in Zambia: findings from HPTN 071-PopART for youth study | Article | AFRO | X X |
| Home-based HTS | Shanaube K, Schaal A, Floyd S, Phiri M, Griffith S, Chaila J, Bock P, Hayes R, Fidler S, Ayles H; HPTN 071 (PopART) Study Team. | What works - reaching universal HIV testing: lessons from HPTN 071 (PopART) trial in Zambia | 2017 | article | AFRO | X | X | X |
| Home-based HTS | Shanaube K.; Chaila M.J.; MacLeod D.; Schaap A.; Floyd S.; Jani C.; Hoddinott G.; Hayes R.; Fidler S.; | Community intervention improves adolescent HIV status knowledge: HPTN 071 study | 2017 | abstract | AFRO | X |
| Home-based HTS | Floyd S.; Ayles H.; Schaap A.; Shanaube K.; MacLeod D.; Phiri M.; Griffith S.; Bock P.; Beyers N.; Fidler S.; Hayes R. | Towards 90-90: Findings after two years of the HPTN 071 (PopART) cluster-randomized trial of a universal testing-and-treatment intervention in | 2018 | article | AFRO | X | X | X |
| Home-based HTS | Muchedzi A.; Mahachi N.; Moga T.; Tafuma T.; Mawora P.; Harbick D.; Nyagura T.; Reichert K. | Improving technical efficiency: Reaching first 90 through community index HIV sexual network testing in Zimbabwe. The case of FHI 360 | 2018 | abstract | AFRO | X |
| Study ID | Study Type | Authors | Year | Title | Type | Journal | PID |
|---|---|---|---|---|---|---|---|
| 45 | Home-based HTS | O’Laughlin K.N.; He W.; Greenwald K.E.; Kasozi J.; Chang Y.; Mulogo E.; Faustin Z.M.; Njogu P.; Walensky R.P.; Bassett I.V. | 2018 | Feasibility and acceptability of home-based HIV testing among refugees: A pilot study in Nakivale refugee settlement in southwestern Uganda | Article | AFRO | X |
| 46 | Home-based HTS | Olawore O.M.; Tobian A.; Nalugoda F.; Gray R.H.; Wawer M.; Ssekubugu R.; Santelli J.; Chang L.W.; Serwadda D. | 2018 | Migration, gender, and HIV incidence in Rakai, Uganda | Article | AFRO | X |
| 47 | Home-based HTS | Roland M.; Block L.; Bachanas P.; Alwano M.G.; Abrams W.; Wirth K.; Gaolathe T.; Makhema J.; Mmalane M.; Lockman S.; El-Halabi S.; Moore J. | 2018 | Home-based testing identifies more previously undiagnosed older men than mobile testing in Botswana | Abstract | AFRO | X | X |
| 48 | Home-based HTS | Ruzagira E, Baisley K, Kamali A, Grosskurth H. | 2018 | Factors associated with uptake of home-based HIV counselling and testing and HIV care services among identified HIV-positive persons in Masaka, Uganda | Article | AFRO | X | X |
| PID | Study Type | Authors | Year | Title | Journals |
|-----|------------|---------|------|-------|----------|
| 49  | Home-based HTS | Sinha, P.; Moll, A. P.; Brooks, R. P.; Deng, Y.-H.; Shenoi, S. V. | 2018 | Synergism between diabetes and human immunodeficiency virus in increasing the risk of tuberculosis | AFRO X |
| 50  | Home-based HTS | Tafuma T.A.; Mahachi N.; Dziwa C.; Marowa P.; Moga T.; Chimbidzikai T.; Muchedzi A.; Nyagura T.; Mpofu M. | 2018 | Time taken to link newly identified HIV positive clients to care following a home-base index case HIV testing: Experience from two provinces in Zimbabwe | AFRO |
| 51  | Index/partner notification | Suggaravetsiri P, Yanai H, Chongsuvivatwong V, Naimpasan O, Akarasewi P. | 2003 | Integrated counseling and screening for tuberculosis and HIV among household contacts of tuberculosis patients in an endemic area of HIV infection: Chiang Rai, Thailand | SEARO X |
| 52  | Index/partner notification | DiCarlo A, Zerbe A, Peters ZJ, Frederix K, Nkonyana JP, Mantell JE, Remien RH, El-Sadr WM. | 2017 | Use of Index Patients to Enable Home-Based Testing in Lesotho | AFRO X X |
| Index/partner notification | Mahachi, N., Muchedzi, A., Moga, T., Tapfuma, T., Dziwa, C., Chimbidzikayi, T., Gonaouya, S., Chakubili, O., & Torpey, K. | High yields attained through HIV household index case testing in Zimbabwe: the case of the FHI 360 Zimbabwe HIV care and treatment project | abstract | AFRO | X |
|---------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------|------|---|
| Outreach HTS              | Parker LA, Jobanputra K, Rusike L, Mazibuko S, Okello V, Kerschberger B, Jouquet G, Cyr J         | Feasibility and effectiveness of two community-based HIV testing models in rural Swaziland               | article  | AFRO |   |
| Outreach HTS              | DiFranceisco W, Holtgrave DR, Hoxie N, Reiser WJ, Resenhoeft R, Pinkerton SD, Vergeront, J.        | HIV seropositivity rates in outreach-based counseling and testing services: article              | AMERO    | Mixed populations | X |
| Outreach HTS              | Keenan, P. A., & Keenan, J. M.                               | Rapid HIV Testing in Urban Outreach: A Strategy for Improving Posttest Counseling article         | AMERO    | MSM  | X |
| Outreach HTS              | Keenan, P. A., & Keenan, J. M.                               | Rapid HIV Testing in Urban Outreach: A Strategy for Improving Posttest Counseling article         | AMERO    | Mixed populations | X |
| Outreach HTS              | Liebman J, Pat Lamberti M, Altice F.                         | Effectiveness of a mobile medical van in providing screening services for article                | AMERO    |     | X |
| #  | Study Type          | Authors                                      | Year | Title                                                                 | Journal   | Hybridisation     |
|----|---------------------|----------------------------------------------|------|-----------------------------------------------------------------------|-----------|-------------------|
| 59 | Outreach HTS        | Bell DN, Martinez J, Botwinick G, Shaw K, Walker LE, Dodds S, Sell RL, Johnson RL, Friedman LB, Sotheran JL, | 2003 | Case finding for HIV-positive youth: a special type of hidden population | AMERO     | X                 |
| 60 | Outreach HTS        | Bell DN, Martinez J, Botwinick G, Shaw K, Walker LE, Dodds S, Sell RL, Johnson RL, Friedman LB, Sotheran JL, | 2003 | Case finding for HIV-positive youth: a special type of hidden population | AMERO     | X                 |
| 61 | Outreach HTS        | Kahn RH, Moseley KE, Thilges JN, Johnson G, Farley TA. | 2003 | Community-based screening and treatment for STDs: results from a mobile clinic | AMERO     | X                 |
| 62 | Outreach HTS        | Bradshaw, C. S., Pierce, L. I., Tabrizi, S. N., Fairley, C. K., & Garland, S. M. | 2005 | Screening injecting drug users for sexually transmitted infections and blood borne viruses using street outreach and self | WPRO      | People who inject/use drugs X |
| 63 | Outreach HTS        | Liang TS, Erbeldaing E, Jacob CA, Wicker H, Christmyer C, Brunson S, Richardson D, Ellen JM. | 2005 | Rapid HIV testing of clients of a mobile STD/HIV clinic | AMERO     | Mixed populations X |
| ID | Study Type | Title | Year | Design | Journal | Outcome | PID |
|----|------------|-------|------|--------|---------|---------|-----|
| 64 | Outreach HTS | Rapid HIV testing of clients of a mobile STD/HIV clinic | 2005 | Article | AMERO | X |
| 65 | Outreach HTS | Comprehensive clinical care on-site in men-only saunas: confidential STI/HIV screening outreach clinic | 2005 | Article | WPRO | MSM X |
| 66 | Outreach HTS | Choosing HIV Counseling and Testing Strategies for Outreach Settings: A Randomized | 2005 | Article | AMERO | People who inject/use drugs X |
| 67 | Outreach HTS | Increasing HIV Testing Among Latinos by Bundling HIV Testing with Other Tests | 2006 | Article | AMERO | MSM X X |
| #  | Outreach HTS | Authors                                      | Year | Title                                                                 | Journal | Type | Location     |
|----|-------------|----------------------------------------------|------|----------------------------------------------------------------------|---------|------|--------------|
| 70 | Outreach HTS | Morin SF, Khumalo-Sakutukwa G, Charlebois ED, Routh J, Fritz K, Lane T, Vaki T, Fiamma A, Coates TJ. | 2006 | Removing barriers to knowing HIV status: same-day mobile HIV testing in Zimbabwe | AFRO    | article |            |
| 71 | Outreach HTS | Rose, V. J., Raymond, H. F., Kellogg, T. A., & McFarland, W. | 2006 | Assessing the feasibility of harm reduction services for MSM: the late night breakfast buffet study | AMERO   | article | MSM X       |
| 72 | Outreach HTS | Bucher, J. B., Thomas, K. M., Guzman, D., Riley, E., Dela Cruz, N., & Bangsberg, D. R. | 2007 | Community-based rapid HIV testing in homeless and marginally housed adults in San Francisco | AMERO   | article | Mixed populations X |
| 73 | Outreach HTS | Bucher JB, Thomas KM, Guzman D, Riley E, Dela Cruz N, Bangsberg DR. | 2007 | Community-based rapid HIV testing in homeless and marginally housed adults in San Francisco | AMERO   | article |            |
| 74 | Outreach HTS | Kawichai S, Celentano DD, Chariyalertsak S, Visrutaratna S, Short O, Ruangyuttikarn C, Chariyalertsak C, Genberg B, Beyrer | 2007 | Community-based voluntary counseling and testing services in rural communities of Chiang Mai Province, | SEARO   | article | X            |
| Supplemental Table showing all included studies WITH PID |
|--------------------------------------------------|
| **Reference**                                      | **Title**                                                                 | **Year** | **Article** | **Region** | **Population** | **PID** |
| Bingham, T. A., Secura, G. M., Behel, S. K., Bunch, J. G., Simon, P. A., & MacKellar, D. A. | HIV Risk Factors Reported by Two Samples of Male Bathhouse Attendees in Los Angeles, California 2001-2002 | 2008     | article     | AMERO       | MSM           | X       |
| Arumainayagam, J., Grimshaw, R., Acharya, S., Chandramani, S., Morrall, I. A., & Pugh, R. N. | Value of targeting at-risk populations at outreach venues: findings from a local sauna | 2009     | article     | EURO        | MSM           | X       |
| Daskalakis, D., Silvera, R., Bernstein, K., Stein, D., Hagerty, R., Hutt, R., Maillard, A., Borkowsky, W., Aberg, J., Aberg, J., and Aberg, J. | Implementation of HIV Testing at 2 New York City Bathhouses: From Pilot to Clinical Service | 2009     | article     | AMERO       | MSM           | X       |
| de la Fuente L, Delgado J, Hoyos J, Belza MJ, Alvarez J, Gutierrez J, Neira-Leon M, Suraez M, Madrid | Increasing early diagnosis of HIV through rapid testing in a street outreach program in Spain | 2009     | article     | EURO        | X             |         |
| Chirawu P, Langhaug L, Mavhu W, Pascoe S, Dirawo J, Cowan F. | Acceptability and challenges of implementing voluntary counselling and testing (VCT) in rural Zimbabwe: evidence from the Regai Dzive Shiri Project | 2010     | article     | AFRO        | X             |         |
| Study ID | Publication Type | Title | Authors | Year | Journal | Additional Info |
|----------|------------------|-------|---------|------|---------|-----------------|
| 80       | Article          | Increasing access to HIV counseling and testing through mobile services in Kenya: strategies, utilization, and cost-effectiveness | Grabbe KL, Menzies N, Taegtmeyer M, Emukule G, Angala P, Mwega I, Musango G, Marum E. | 2010 | AFRO | X |
| 81       | Article          | Comparison of users of an HIV/syphilis screening community-based mobile van and traditional voluntary counselling and testing sites in Guatemala | Lahuerta, M., Sabidó, M., Giardina, F., Hernández, G., Palacios, J.F., Ortiz, R., Fernández, V.H. and Casabona, J. | 2010 | AMERO | Mixed populations X |
| 82       | Article          | Rapid implementation of an integrated large-scale HIV counseling and testing, malaria, and diarrhea prevention campaign in rural Kenya | Lugada E, Millar D, Haskew J, Grabowsky M, Garg N, Vestergaard M, Kahn JG, Muraguri N, Mermin J. | 2010 | AFRO | X |
| Study ID | Study Type | Authors | Year | Title and Key Findings | Journal | Status |
|----------|------------|---------|------|-------------------------|---------|--------|
| 84       | Outreach HTS | Brady M, Harrison C, Warriner J, Skinner C, Larbalestier N, Ward P. | 2011 | Community HIV testing: the feasibility and acceptability of assertive outreach and community testing to reduce the late | EURO | X      |
| 85       | Outreach HTS | Govindasamy D, van Schaik N, Kranzer K, Wood R, Mathews C, Bekker LG. | 2011 | Linkage to HIV care from a mobile testing unit in South Africa by different CD4 | AFRO | X      |
| 86       | Outreach HTS | Kranzer K, Govindasamy D, van Schaik N, Thebus E, Davies N, Zimmermann M, Jeneker S, Lawn S, Wood R, Bekker LG. | 2011 | Incentivized recruitment of a population sample to a mobile HIV testing service increases the yield of newly diagnosed cases, including those in need of antiretroviral therapy | AFRO | X      |
| 87       | Outreach HTS | Kranzer K, Govindasamy D, van Schaik N, Thebus E, Davies N, Zimmermann M, Jeneker S, Lawn S, Wood R, Bekker LG. | 2011 | Incentivized recruitment of a population sample to a mobile HIV testing service increases the yield of newly diagnosed cases, including those in need of antiretroviral therapy | AFRO | X      |
| ID | Study Type | Authors | Year | Title | Journal | AFRO | PID |
|----|------------|---------|------|-------|---------|------|-----|
| 88 | Outreach HTS | Ostermann J, Reddy EA, Shorter MM, Muiruri C, Mtalo A, Itemba DK, Njau B, Bartlett JA, Crump JA, Thielman NM. | 2011 | Who tests, who doesn't, and why? Uptake of mobile HIV counseling and testing in the Kilimanjaro Region of Tanzania | article | AFRO | X |
| 89 | Outreach HTS | Baisley K, Doyle AM, Changalucha J, Maganja K, Watson-Jones D, Hayes R, Ross D. | 2012 | Uptake of voluntary counselling and testing among young people participating in an HIV prevention trial: comparison of opt-out and opt-in strategies | article | AFRO | X |
| 90 | Outreach HTS | Baisley K, Doyle AM, Changalucha J, Maganja K, Watson-Jones D, Hayes R, Ross D. | 2012 | Uptake of voluntary counselling and testing among young people participating in an HIV prevention trial: comparison of opt-out and opt-in strategies | article | AFRO | X |
| 91 | Outreach HTS | Granich R, Muraguri N, Doyen A, Garg N, Williams BG. | 2012 | Achieving universal access for human immunodeficiency virus and tuberculosis: potential prevention impact of an integrated multi-disease prevention campaign in Kenya | article | AFRO | X |
| ID | Outreach HTS | Authors | Year | Title | Journal | Article | Additional Notes |
|----|--------------|---------|------|-------|---------|---------|-----------------|
| 92 | Outreach HTS | Hood JE, MacKellar D, Spaulding A, Nelson R, Mosiakgabo B, Sikwa B, Puso I, Raats J, Loeto P, Alwano MG, Monyatsi B. | 2012 | Client characteristics and gender-specific correlates of testing HIV positive: a comparison of standalone center versus mobile outreach HIV testing and counseling in Botswana | AFRO | article | X |
| 93 | Outreach HTS | Celentano D, Srithanaviboonchai K, Wichajarn M, Ngiizi MD, van Schaik N, Kranzer K, Lawn SD, Wood | 2012 | Accept (HPTN 043) HIV/AIDS community mobilization and incentivized HIV counseling and testing | SEARO | article | X |
| 94 | Outreach HTS | Schaik N, Kranzer K, Lawn SD, Wood R, Bekker LG, McGrath N, Chirowodza A, Joseph P. | 2012 | HIV counseling and testing program: making it work | AFRO | article | X X |
| 95 | Outreach HTS | Maritz TE, Smith CD, Mattox L, Gluth DR, Murgai | 2013 | efficiency of HIV testing with peer recruitment, | AMERO | article | X |
| 96 | Outreach HTS | Cawley C, Wringe A, Slaymaker E, Todd J, Michael D, Kumugola Y. | 2014 | The impact of voluntary counselling and testing services | AFRO | article | X |
| 97 | Outreach HTS | Balbuena S, de la Fuente L, Hoyos J, Rosales-Statkus | 2014 | street-based HIV rapid testing: is it an effective intervention? | EURO | article | X X |
| 98 | Outreach HTS | Balbuena S, de la Fuente L, Hoyos J, Rosales-Statkus | 2014 | street-based HIV rapid testing: is it an effective intervention? | EURO | article | X X |
| # | Study Type | Authors | Year | Title | Journal | Region | Sexuality |
|---|------------|---------|------|-------|---------|--------|-----------|
| 1 | Outreach HTS | Ifekandu, C., Suleiman, A., & Aniekwe, O. | 2014 | The cost-effectiveness in the use of HIV counselling and testing: mobile outreaches in reaching men who have sex with men (MSM) in northern Nigeria | AFRO | MSX | X |
| 2 | Outreach HTS | Kakalou, E., Papastamopoulos, V., Ioannidis, P., Papanikolaou, K., Georgiou, O., & Skoulis, A. | 2014 | Early HIV diagnosis through use of rapid diagnosis test (RDT) in the community and direct link to HIV care: a pilot project for vulnerable populations in Athens, Greece | EURO | Mixed populations | X |
| 3 | Outreach HTS | Segura, E.R., Castro, J.L., Smith, J.M., & Chane, D. | 2014 | Bringing testing to the people - benefits of mobile unit HIV counseling and testing: a pilot project for vulnerable populations in Lima, Peru, 2007-2009 | AMERO | Transgender | X |
| 4 | Outreach HTS | Mabuto T, Latka MH, Kuwane B, Churchyard GJ, Charalambous S, & Hoffmann CJ. | 2014 | Four models of HIV counseling and testing: utilization and test results in South Africa | AFRO | X |
| 5 | Outreach HTS | Mdodo, R., Thomas, P. E., Walker, A., Chavez, P., Ethridge, S., Oraka, E., & Sutton, M. Y. | 2014 | Rapid HIV Testing at Gay Pride Events to Reach Previously Untested MSM: Experience of offering HIV rapid testing to at-risk patients in community health centers in eight Chinese cities | AMERO | MSX | X |
| 6 | Outreach HTS | Zhang D, Meng S, Xu P, Lu H, Zhuang M, Wu G, Liu Y, Pan X, Yan H, Chen X, Fan L, Li C, Fu X, Qi J, Han L, Ma F, Lv F, & Sun | 2014 | Experience of offering HIV rapid testing to at-risk patients in community health centers in eight Chinese cities | WPRO | X |
| Outreach HTS | Authors | Year | Title | Journal | Populations | X | X |
|-------------|---------|------|-------|---------|-------------|---|---|
| Outreach HTS | Adebajo S, Eluwa G, Njab J, Oginni A, Ukwuije F, Ahonsi B, Lorenc T. | 2015 | Evaluating the effect of HIV prevention strategies on uptake of HIV counselling and testing among male most-at-risk-populations in Nigeria; a cross-sectional analysis | AFRO | Mixed populations | X | X |
| Outreach HTS | Bassett IV, Regan S, Mbonambi H, Blossom J, Bogan S, Bearnot B, Robine M, Walensky RP, Mhlongo B, Thulare H, Losina E. | 2015 | Finding HIV in hard to reach populations: mobile HIV testing and geospatial mapping in Umlazi township, Durban, South Africa | AFRO | X |
| Outreach HTS | Belza MJ, Hoyos J, Fernández-Balbuena S, Diaz A, Bravo MJ, de la Fuente L; Madrid HIV rapid testing group.. | 2015 | Assessment of an outreach street-based HIV rapid testing programme as a strategy to promote early diagnosis: a comparison with two surveillance systems in Spain, 2008- | EURO | X |
| Outreach HTS | Belza MJ, Hoyos J, Fernández-Balbuena S, Diaz A, Bravo MJ, de la Fuente L; Madrid HIV rapid testing group.. | 2015 | Assessment of an outreach street-based HIV rapid testing programme as a strategy to promote early diagnosis: a comparison with two surveillance systems in Spain, 2008- | EURO | MSM | X |
| Study Type       | Title                                                                 | Authors                                                                 | Year | Journal | Country/Region | PID |
|------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------|------|---------|----------------|-----|
| Outreach HTS     | Pharmacist-provided rapid HIV testing in two community pharmacies    | Darin KM, Klepser ME, Klepser DE, Klepser SA, Reeves A, Young M, Scarsi KK. | 2015 | AMERO   |                | X   |
| Outreach HTS     | Widening the Access to HIV Testing: The Contribution of Three In-Pharmacy Testing Programmes in Spain | Fernandez-Balbuena S, Belza MJ, Zulaica D, Martinez JL, Marcos H, Rifa B, Arrillaga A, de la Fuente L, Hoyos J; Working Group. | 2015 | EURO    |                | X   |
| Outreach HTS     | The rapid test in Spanish pharmacies: a novel programme to reach heterosexual men? | Fernandez-Balbuena S, Marcos H, Perez-A, Hoyos J, Belza MJ, de la Fuente L. | 2015 | EURO    |                | X X |
| Outreach HTS     | Risk factors for HIV and STI diagnosis in a community-based HIV/STI testing and counselling site for men having sex with men (MSM) in a large German city in 2011-2012 | Marcus U, Ort J, Grenz M, Eckstein K, Wirtz K, Wille A. | 2015 | EURO    | MSM           | X   |
| Outreach HTS     | Feasibility and effectiveness of two community-based HIV testing models in rural Swaziland | Parker LA, Jobanputra K, Rusike L, Mazibuko S, Okello V, Kershberger B, Jouquet G, Cyr J. | 2015 | AFRO    |                | X   |
| Study ID | Study Details | Year | Title | Article Type | Journal | Location | PID |
|---------|---------------|------|-------|--------------|---------|----------|-----|
| Outreach HTS | Wood M, Ellks R, Grobicki M. | 2015 | Outreach sexual infection screening and postal tests in men who have sex with men: are they comparable to clinic screening? | article | EURO | MSM X X | X |
| Outreach HTS | van Zyl MA, Brown LL, Pahl K. | 2015 | Using a call center to encourage linkage to care following mobile HIV counseling and testing | article | AFRO | | |
| Outreach HTS | Chamie G, Clark TD, Kabami J, Kadede K, Ssemmondo E, Steinfeld R, Lavoy G, Kwarisiima D, Sang N, Jain V, Thirumurthy H, Liegler T, Balzer LB, Petersen ML, Cohen CR, Bukusi EA, Kamya MR, | 2016 | A hybrid mobile approach for population-wide HIV testing in rural east Africa: an observational study | article | AFRO | X | |
| Outreach HTS | Arevalo, A. L., Duran, A., Carrizo, E., Betti, L., Marachlian, L., Vulcano, F., Nan, M., Carones, M. L., Serantes, D., Carrozzi, B., Vulcano, S., Orge, P., Hirsch, C., Minissale, G. | 2017 | Free HIV tests on public spaces: a strategy which allows easy access to diagnose in the Autonomous City of Buenos Aires (CABA) | abstract | AMERO | X |
| # | Outreach HTS | Citation | Title | Year |
|---|---|---|---|---|
| 1 | Camacho-Gonzalez A.; Gillespie S.; Thomas-Seaton L.; Frieson K.; Hussen S.A.; Murray A.; Gaul Z.; Sutton M.; Graves C.; Chakraborty R. | 2017 | The Metropolitan Atlanta community adolescent rapid testing initiative study: closing the gaps in HIV care among youth in Atlanta, | AMERO |
| 2 | Castel AD, Kuo I, Mikre M, Young T, Haddix M, Das S, Maugham G, Reisen C. | 2017 | Feasibility of Using HIV Care-Continuum Outcomes to Identify Geographic Areas for Targeted HIV Testing | AMERO |
| 3 | Chamie G.; Schaffer E.; Ndyabakira A.; Emperorador D.; Kwarisima D.; Havlir D.V.; Kahn J.; Kamya M.R.; | 2017 | A randomized trial of novel strategies to incentivize HIV testing among men in Uganda | AFRO |
| 4 | Daniels J, Komarek A, Forgrieve B, Pahl K, Stafford S, Bruns LC, Coates T. | 2017 | Shout-It-Now: A Mobile HCT Model Employing Technology and Edutainment in South Africa | AFRO |
| 5 | Ezeanolue EE, Obiefune MC, Yang W, Ezeanolue CO, Pharr J, Osuji A, Ogidi AG, Hunt AT, Patel D, Ogedegbe G, Ehiri JE. | 2017 | What do You Need to Get Male Partners of Pregnant Women Tested for HIV in Resource Limited Settings? The Baby Shower | AFRO |
| Study ID  | Outreach | Study Title                                                                 | Year | Study Type | Journal | Population(s) |
|----------|----------|------------------------------------------------------------------------------|------|------------|---------|----------------|
| #1       | Outreach | Active targeted HIV testing and linkage to care among men who have sex with  | 2017 | article    | SEARO   | MSM X X X     |
|          | HTS      | men attending a gay sauna in Thailand                                         |      |            |         |                |
| #2       | Outreach | Experience and lessons from health impact assessment guiding prevention and  | 2017 | article    | AFRO    | X              |
|          | HTS      | control of HIV/AIDS in a copper mine project, northwestern Zambia             |      |            |         |                |
| #3       | Outreach | Making mobile HIV testing available for high-risk MSM in saunas              | 2017 | abstract   | SEARO   | MSM X          |
|          | HTS      |                                                                                 |      |            |         |                |
| #4       | Outreach | Increasing HIV testing among hard-to-reach groups: examination of RAPID, a  | 2017 | article    | WPRO    | X              |
|          | HTS      | community-based testing service in Queensland                                  |      |            |         |                |
| #5       | Outreach | Fast tracking the HIV response in Nairobi city by targeted HIV testing of key | 2017 | abstract   | AFRO    | X              |
|          | HTS      | populations, Kenya, 2015                                                       |      |            |         | Mixed populations X |
| Outreach HTS | Authors | Year | Title | Type | Journal | PID |
|-------------|---------|------|-------|-------|---------|-----|
| SEARCH Collaboration.. | Sibanda EL, Tumushime M, Mufuka J, Mavedzenge SN, Gudukeya S, Bautista-Arredondo S, Hatzold K, Thirumurthy H, McCoy SI, Padian N, Copas A, Cowan FM. | 2017 | Effect of non-monetary incentives on uptake of couples' counselling and testing among clients attending mobile HIV services in rural Zimbabwe: a cluster-randomised trial | article | AFRO | X |
| Outreach HTS | Sibanda EL, Tumushime M, Mufuka J, Mavedzenge SN, Gudukeya S, Bautista-Arredondo S, Hatzold K, Thirumurthy H, McCoy SI, Padian N, Copas A, Cowan FM. | 2017 | Effect of non-monetary incentives on uptake of couples' counselling and testing among clients attending mobile HIV services in rural Zimbabwe: a cluster-randomised trial | article | AFRO | X |
| Outreach HTS | Okoko, N. A., Guze, M. A., Ndolo, S., Nyanaro, G., Bukusi, E. A., Cohen, C. R., Penner, J., & Kulzer, J. L. | 2017 | Toward the first 90: identifying and testing younger populations for HIV at community outreach events | abstract | AFRO | X |
| Outreach HTS | SEARCH Collaboration.. | 2017 | Evaluating the feasibility and uptake of a community-led HIV testing and multi-disease health campaign in rural Uganda | article | AFRO | X |
| # | Outreach HTS | Smyrnov, P., Williams, L., Korobchuk, A., Sazonova, Y., Nikolopoulos, Skaathun, B., Schneider, J., & Friedman, S. R. | Social network approaches to locating undiagnosed HIV cases are more effective than RDS recruitment or outreach models | abstract | EURO | People who inject/use drugs | X |
|---|---|---|---|---|---|---|---|
| # | Outreach HTS | van Niekerk, M., Draper, H., & Meehan, S.-A. | Can STI screening be suitably integrated into community-based HIV testing services for men in Cape | abstract | AFRO | X |
| # | Outreach HTS | Adetunji AA, Kuti MA, Audu RA, Muyibi SA, Imhansoloeva M, Mosuro OA, Solanke EA, Akpa OM, Irabor AE, Ladipo M, Berzins B, Robertson K | Discordant rapid HIV tests: lessons from a low-resource community | article | AFRO | X |
| # | Outreach HTS | Bekolo CE, Yimdjo Fogue TD, Williams TD. | Feasibility of integrating HIV testing into local youth development programmes in Cameroon | article | AFRO | X |
| # | Outreach HTS | Geoffroy E.; Khozomba N.; Jere J.; Schell E.; Schafer T.; Goldman J.; Kabwere K. | Going door-to-door to reach men and young people with HIV testing services to achieve the 90-90-90 treatment | abstract | AFRO | X |
| # | Outreach HTS | Authors                                                                 | Year | Document Type | PID | MSM | X | X |
|---|-------------|------------------------------------------------------------------------|------|---------------|-----|-----|---|---|
| 1 | Outreach HTS | Herce ME, Miller WM, Bula A, Edwards JK, Sapatalo P, Lancaster KE, Mofolo I, Furtado MLM, Weir SS. | 2018 | Article       | AFRO | MSM | X |   |
| 2 | Outreach HTS | Roland M.; Block L.; Bachanas P.; Alwano M.G.; Abrams W.; Wirth K.; Gaolathe T.; Makhema J.; Mmalane M.; Lockman S.; El-Halabi S.; Moore J. | 2018 | Abstract      | AFRO |     | X | X |
| 3 | Outreach HTS | Sinha, P.; Moll, A. P.; Brooks, R. P.; Deng, Y.-H.; Shenoi, S. V.       | 2018 | Article       | AFRO |     |   | X |
| ID   | Study Title                                                                 | Authors                                                                 | Year | Country | Journal   | Type     | MSM & Transgender | PID |
|------|-----------------------------------------------------------------------------|------------------------------------------------------------------------|------|---------|-----------|----------|-------------------|-----|
| 1    | Implementation and assessment of a model to increase HIV testing among men who have sex with men and transgender women in Thailand, 2011-2016 | Wasantioopakorn M, Manopaiboon C, Phoorisri T, Sukkul A, Lertpiriyasuwat C, Ongwandee S, Langkafah F, Kritsanavarin U, Visavakum P, Jetsawang B, Nookhai S, Kitwattanachai P, Weerawattanayotin W, Losinikul M, Yenyarsun N, Jongchotchatchawa | 2018 | Thailand | SEARO     | Outreach HTS | X                |     |
| 2    | Rapid ART initiation and index client testing outcomes of commlink, a community-based, HIV testing, mobile HIV care, and peer-delivered, Linkage Case Management Program-Swaziland, 2017 | Williams D.; Mackellar D.; Dlamini M.; Simelane N.; Mlambo S.; Mamba P.; Byrd J.; Mazibuko S.; Pathmanathan I.; Lukhele N.; Dube L.; Pasipamire M.; Nxumalo V.; Beyer A.; Ryan C. | 2018 | Swaziland | AFRO     | Outreach HTS | X, X             |     |
| 3    | Case finding for HIV-positive youth: a special type of hidden population | Bell DN, Martinez J, Botwinick G, Shaw K, Walker LE, Dodds S, Sell RL, Johnson RL, Friedman LB, Sotheran JL, Siciliano C. | 2003 | USA     | AMERO     | Stand-alone HTS | X                |     |
| # | Stand-alone HT | Bailey, A. C., Roberts, J., Weatherburn, P., Hickson, F. C. I., Reid, D. S., Fisher, M., & Dean, G. | 2008 | Community HIV testing for men who have sex with men: results of a pilot project and comparison of service users with those testing in | article | EURO | MSM | X | X |
|---|---|---|---|---|---|---|---|---|---|
| # | Stand-alone HT | Wringe A, Isingo R, Urassa M, Maiseli G, Manyalla R, Changalucha J, Mgara J, Kalluvya S, Zaba B. | 2008 | Uptake of HIV voluntary counselling and testing services in rural Tanzania: implications for effective HIV prevention and equitable | article | AFRO | X |
| # | Stand-alone HT | Kimbrough, L. W., Fisher, H. E., Jones, K. T., Johnson, W., Thadiparthi, S., & Dooley, S. | 2009 | Accessing Social Networks With High Rates of Undiagnosed HIV Infection: The Social Networks Demonstration | article | AMERO | Mixed populations | X |
| # | Stand-alone HT | Menzies N, Abang B, Wanyenze R, Nuwaha F, Mugisha B, Coutinho A, Bunnell TR, Mermin J | 2009 | The costs and effectiveness of four HIV counseling and testing strategies in | article | AFRO | X |
| # | Stand-alone HT and Yazdanpanah, | Champenois, K., Le Gall, J.M., Jacquemin, C., Jean, S., Martin, C., Rios, L., Benoit, O., Vermoesen, S., Lert, F., Spire, B. | 2012 | ANRS–COM'TE ST: description of a community-based HIV testing intervention in non-medical settings for men | article | EURO | MSM | X | X | X |
| Study Type | Authors | Year | Title | Journal | Area | Primary ID |
|------------|---------|------|-------|---------|------|------------|
| Stand-alone HTS | Lorente, N., Preau, M., Vernay-Vaisse, C., Mora, M., Blanche, J., Otis, J., Passeron, A., Le Gall, J.M., Dhotte, P., Carrieri, M.P. and Suzan-Monti, M. | 2013 | Expanding Access to Non-Medicalized Community-Based Rapid Testing to Men Who Have Sex with Men: An Urgent HIV Prevention Intervention (The ANRS-DRAG Study) |article | EURO | MSM X |
| Stand-alone HTS | Meulbroek, M., Ditzel, E., Saz, J., Taboada, H., Pérez, F., Pérez, A., Carrillo, A., Font, G., Marazzi, G., Uya, J. and Cabrero, J. | 2013 | BCN Checkpoint, a community-based centre for men who have sex with men in Barcelona, Catalonia, Spain, shows high efficiency in HIV detection and linkage to care: Efficient HIV detection at BCN Checkpoint |article | EURO | MSM X |
| Stand-alone HTS and HTP | Knight, V., Gale, M., Guy, R., Parkhill, N., Holden, J., Leeman, C., McNulty, A., Keen, J. | 2014 | A novel time-limited pop-up HIV testing service for gay men in Sydney, Australia, attracts high-risk individuals |article | WPRO | MSM X |
| Stand-alone HT | Yan, H., Zhang, M., Zhao, J., Huan, X., Ding, J., Wu, S., Wang, C., Xu, Y., Liu, L., Xu, F. and Yang, H. | 2014 | The increased effectiveness of HIV preventive intervention among men who have sex with men and of follow-up care for people living with HIV after ‘task-shifting’ to community-based organizations: a ‘cash on service delivery’ model | article | WPRO | MSM | X | X |
| Stand-alone HT | Ferrer L, Loureiro E, Meulbroek M, Folch C, Perez F, Esteve A, Saz J, Taboada H, Pujol TF, Casabona J. | 2015 | High HIV incidence among men who have sex with men attending a community-based voluntary counselling and testing service in Barcelona, Spain: results from the ITACA cohort | article | EURO | MSM | X |
| Stand-alone HT | Des Jarlais D, Duong HT, Pham Minh K, Khuat OH, Nham TT, Arasteh K, Feeleymer J, Heckathorn DD, Peres M, Moles JP, Laureillard D, Nagot N; (The Drive Study Team) | 2016 | Integrated respondent-driven sampling and peer support for persons who inject drugs in Haiphong, Vietnam: a case study with implications for | article | WPRO | MSM | X |
| # | Stand-alone HT | Authors                                                                 | Year | Title                                                                 | Type | Journal | PID |
|---|---------------|------------------------------------------------------------------------|------|----------------------------------------------------------------------|------|---------|-----|
| 10 | Stand-alone HTB | Engler K, Rollet K, Lessard D, Thomas R, Lebouche B.                   | 2016 | Explaining the Presence of "Heterosexual" Female Clients of a Rapid HIV Testing Site Located in the Gay Village of Montreal, | article | AMERO   | X   |
| 11 | Stand-alone HT | Lazarus L, Patel S, Shaw A, Leblanc S, Lalonde C, Hladio M, Mandryk K, Horvath C, Petricich W, Kendall C, Tyndall MW; Proud Community Advisory Committee. | 2016 | Uptake of Community-Based Peer Administered HIV Point-of-Care Testing: Findings from the PROUD Study | article | AMERO   | People who inject/use drugs | X | X |
| 19 | Stand-alone HT | Lessard D.; Lebouche’ B.; Engler K.; Thomas R.                         | 2016 | An analysis of socio-demographic and behavioural factors among immigrant MSM in Montreal from an HIV-testing site sample | article | AMERO   | MSM | X |
| 28 | Stand-alone HT | Reif LK, Rivera V, Louis B, Bertrand R, Peck M, Anglade B, Seo G, Abrams EJ, Pape JW, Fitzgerald DW, McNairy ML. | 2016 | | article | AMERO   | X   |
| Stand-alone HT | Authors                                                                 | Year | Study Details                                                                 | Journal | People who inject/use drugs |
|---------------|------------------------------------------------------------------------|------|-------------------------------------------------------------------------------|---------|----------------------------|
|               | Robert E Booth, Jonathan M Davis, Sergey Dvoryak, John T Brewster,     | 2016 | HIV incidence among people who inject drugs (PWIDs) in Ukraine: results from  | EURO    | X                          |
|               | Oksana Lisovska, Steffanie A Strathdee, Carl A Latkin                  |      | a clustered randomised trial                                                  |         |                            |
|               | Vannakit R.; Jantarapakde J.; Pengnonyang S.; Jitjang S.; Janamnuaysook | 2016 | A cohort study of community-based test and treat for men who have sex with    | SEARO   | X                          |
|               | R.; Pankam T.; Trachunthong D.; Pussadee K.; Reankhomfu R.; Lingjongrat |      | men and transgender women: Preliminary findings from Thailand                 |         |                            |
|               | D.; Janyam S.; Nakpor T.; Leenasirimakul P.; Jadwattanakul T.; Noriega |      |                                                                               |         |                            |
|               | S.; Charoenying S.; Sattayapanich T.; Arunmanakul A.; Phanuphak P.     |      |                                                                               |         |                            |
|               | ; Cassell M.; Phanuphak N.                                            |      |                                                                               |         |                            |
|               | Pham, M.K., Moles, J.P., Thi, H.D., Thi, T.N., Thi, G.H., Thi, T.T.,   | 2017 | Low HIV incidence but high HCV incidence among people who inject drugs in    | WPRO    | X                          |
|               | Hai, V.V., Thi, H.K., Vallo, R., Peries, M. and Arasteh, K.            |      | Haiphong, Vietnam: results of the ANRS 12299/NIDA P30DA011041                 |         |                            |
| Combination of interventions | Outlaw, A.Y., Naar-King, S., Parsons, J.T., Green-Jones, M., Janisse, H. and Secord, E. | Using Motivational Interviewing in HIV Field Outreach With Young African American Men Who Have Sex With Men: A Randomized | 2010 | article | AMERO | MSM | X | X |
|-----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|-------|-------|------|----|----|
| Combination of interventions | Stein, R., Green, K., Bell, K., Toledo, C.A., Uhl, G., Moore, A., Shelley, G.A. and Hardnett, F.P. | Provision of HIV Counseling and Testing Services at Five Community-Based Organizations Among Young Men of Color Who Have Sex with Men | 2011 | article | AMERO | MSM & Transgenderer | X |
| Combination of interventions | Qvist, T., Cowan, S.A., Graugaard, C. and Helleberg, M. | High linkage to care in a community-based rapid HIV testing and counseling project among men who have sex with men in Copenhagen | 2014 | article | EURO | MSM | X | X |
| Combination of interventions | Zhang, D., Meng, S., Xu, P., Lu, H., Zhuang, M., Wu, G., Liu, Y., Pan, X., Yan, H., Chen, X. and Fan, L. | Experience of offering HIV rapid testing to at-risk patients in community health centers in eight Chinese cities | 2014 | article | WPRO | MSM | X |
| Combination of interventions | Authors                          | Year | Title                                                                 | Supplement  | Source | PID |
|------------------------------|----------------------------------|------|----------------------------------------------------------------------|-------------|--------|-----|
| **##**                       | Castro R, Ribeiro-Alves M, Corrêa RG, Derrico M, Lemos K, Grangeiro JR, Jesus Bd, Pires D, Veloso | 2016 | The Men Who Have Sex with Men HIV Care Cascade in Rio de Janeiro, Brazil | article     | AMERO | X   |
| **##**                       | Castro R, Ribeiro-Alves M, Corrêa RG, Derrico M, Lemos K, Grangeiro JR, Jesus Bd, Pires D, Veloso | 2016 | The Men Who Have Sex with Men HIV Care Cascade in Rio de Janeiro, Brazil | article     | AMERO | MSM & Transgender | X   |
| **##**                       | Fernandez-Lopez L, Reyes-Uruena J, Agusti C, Kustec T, Klavs I, Casabona C; COBATEST Network group. | 2016 | The COBATEST network: a platform to perform monitoring and evaluation of HIV community-based testing practices in Europe and conduct operational | article     | EURO  | X   |
| **##**                       | Hoenigl M, Chaillon A, Morris SR, Little SJ. | 2016 | HIV Infection Rates and Risk Behavior among Young Men undergoing community-based Testing in San Diego | article     | AMERO | MSM | X   |
| **##**                       | Hoenigl M, Chaillon A, Morris SR, Little SJ. | 2016 | HIV Infection Rates and Risk Behavior among Young Men undergoing community-based Testing in San Diego | article     | AMERO | X   |
| Combination of interventions | Authors | Year | Title | Publication Type | Journal | Region | Population | PID |
|----------------------------|---------|------|-------|-----------------|---------|--------|------------|-----|
| # | Bitimwine, H., Musiime, F., Ajuna, P., Tumbu, P., Nahiry-Ntege, P., & Kekitiinwa, A. | 2017 | Maximizing targeted testing to improve HIV yield among children and adolescents in Rwenzori | abstract | AFRO | X |
| # | Casalini, C., Boyee, D., Ndolichimpa, M., Rutabanzibwa, N., Bandio, R., Mlanga, E., & Curran, K. | 2017 | Key population risk factors associated with differentiated HIV care in Tanzania | abstract | AFRO | Mixed populations | X |
| # | Holliday RC, Zellner T, Francis C, Braithwaite RL, McGregor B, Bonhomme J. | 2017 | Campus and Community HIV and Addiction Prevention (CCHAP): An HIV Testing and Prevention Model to Reach Young African American Adults | article | AMERO | X |
| # | Ribas Baltrons, Josep; Fernández-López, Laura; Casabona I Barberà, Jordi; Grupo red COBATEST | 2017 | [Cobastest network: users' characteristics of community-based voluntary, counselling and testing centres in Spain] | article | EURO | Mixed populations | X |
| # | Zulliger R, Maulsby C, Solomon L, Baytop C, Orr A, Nasrullah M, Shouse L, DiNenno E, Holtgrave D. | 2017 | Cost-utility of HIV Testing Programs Among Men Who Have Sex with Men in the United States | article | AMERO | MSM | X |
| # | Velen K, Lewis JJ, Charalambous S, Pagk-Shipp L, Popane F, Churchyard GJ, Hoffmann CJ. | 2016 | Household HIV Testing Uptake among Contacts of TB Patients in South Africa | article | AFRO | X | X |
| # | School-based HTS | Ijadunola K, Abiona T, Balogun J, Aderounmu A. | Provider-initiated (Opt-out) HIV testing and counselling in a group of university students in Ile-Ife, Nigeria | article | AFRO | X |
|---|---|---|---|---|---|---|
| # | School-based HTS | Gill, H., Bulman, J., Wallace, H., Evans, A., & Schoeman, S. | Evaluation of a pilot student LGBT sexual health “pop up” clinic | abstract | EURO | MSM & Transgender | X |
| # | School-based HTS | Milligan C, Cuneo CN, Rutstein SE, Hicks C. | “Know Your Status”: results from a novel, student-run HIV testing initiative on college campuses | article | AMERO | MSM | X | X |
| # | School-based HTS | Milligan C, Cuneo CN, Rutstein SE, Hicks C. | “Know Your Status”: results from a novel, student-run HIV testing initiative on college campuses | article | AMERO | X | |
| # | School-based HTS | Okpo E, Corrigan H, Gillies P. | Blood borne virus (BBV) testing in a university setting in North-East Scotland: a | article | EURO | X | |
| Study Type | Authors | Title | Year | Journal | Supplemental Table |
|------------|---------|-------|------|---------|--------------------|
| Workplace-based HTS | Van der Borght SF, Schim van der Loeff MF, Clevenbergh P, Kabarega JP, Kamo E, van Cranenburgh K, Rijckborst H, Lange JM, Rinke de Wit TF. | Long-term voluntary counseling and testing (VCT) uptake dynamics in a multicountry HIV workplace program in sub-Saharan Africa | 2010 | AFRO | X |
| Workplace-based HTS | de Beer I, Chani K, Feeley FG, Rinke de Wit TF, Sweeney-Bindels E, Mulongeni P. | Assessing the costs of mobile voluntary counseling and testing at the workplace versus facility based voluntary counseling and testing | 2015 | AFRO | X |
| Workplace-based HTS | Knoblauch AM, Divall MJ, Owuor M, Nduna K, Ng’uni H, Musunka G, Pascall A, Utzinger J, Winkler MS. | Experience and lessons from health impact assessment guiding prevention and control of HIV/AIDS in a copper mine project, northwestern Zambia | 2017 | AFRO | X |
Supplemental Digital Content 5a. Quality of studies included in systematic review of CB HTS using Cochrane Collaboration's Risk of Bias Tool

| Author, year | Selection bias | Performance and detection bias | Reporting bias | Attrition bias | Other | Total score¹ |
|--------------|----------------|---------------------------------|----------------|---------------|-------|-------------|
|              | A       | B      | C   | D       | E     | F       |       |
| Chamie 2017  | U       | U      | 0   | U       | U     | U       | 0*    |
| Doherty 2013 | 1       | 1      | U   | 1       | 1     | 0       | 4     |
| Ezeanolue 2017 | 1     | 1      | 0   | 1       | 1     | 1       | 5     |
| Fylkesnes 2013 | 1     | 1      | 0   | 1       | 1     | 1       | 5     |
| Krakowiak 2016A | U     | U      | 0   | U       | U     | U       | 0*    |
| Lugada 2010  | U       | U      | 0   | 0       | 1     | 1       | 2     |
| Osoi 2013    | 1       | 1      | 0   | 0       | 1     | 1       | 4     |
| Outlaw 2010  | 1       | U      | 0   | 0       | 1     | 1       | 3     |
| Roland 2018  | U       | U      | 0   | U       | U     | U       | 0*    |
| Sibanda 2016 | U       | U      | 0   | U       | U     | U       | 0*    |
| Sibanda 2017 | 1       | 0      | 0   | U       | 1     | 1       | 3     |
| Spielberg 2005 | U       | U      | 0   | U       | 1     | 0       | 1     |

Quality categories: A: Adequate sequence generation; B: Allocation concealment; C: Blinding of participants, personnel and outcome assessors; D: Incomplete outcome data addressed; E: Free of selection reporting; F: Free of any other bias

¹Total scores range from 0 to 6. Higher scores indicate low risk of bias; lower scores indicate higher risk of bias.

*Conference abstract only, unable to assess completely
### Supplemental Digital Content 5b. Quality of studies included in systematic review of CB HTS using Newcastle-Ottawa Quality Assessment Scale

| Author, year        | Selection bias | Confounding | Measurement bias | Total score |
|---------------------|----------------|-------------|------------------|-------------|
| Adebajo 2015        | U              | 0           | 1                | 4           |
| Bailey 2008         | U              | 0           | 1                | 4           |
| Baisley 2012        | U              | 0           | 1                | 5           |
| Bogart 2017         | 0              | 0           | 2                | 6           |
| Cawley 2014         | U              | U           | 1                | 1           |
| Chamie 2016         | U              | U           | 1                | 3           |
| de Beer 2015        | U              | 0           | 0                | 2           |
| Grabbe 2010         | 0              | 1           | 1                | 6           |
| Hood 2012           | 1              | 0           | 0                | 5           |
| Lipsitz 2014        | U              | 0           | 0                | 3           |
| Mabuto 2014         | 0              | 0           | 1                | 4           |
| Mark 2017           | 1              | 1           | 1                | 5           |
| Menzies 2009        | 1              | 1           | 2                | 8           |
| Mulogo 2011         | U              | 0           | 0                | 3           |
| Parker 2015         | U              | 0           | 1                | 5           |
| Phiri 2016          | U              | U           | 1                | 3           |
| Varela 2016         | U              | U           | NA               | 2           |
| Wasantioopakorn 2018| U              | 0           | 1                | 4           |
| Wood 2015           | U              | 0           | 1                | 2           |
| Zhang 2014          | U              | U           | 0                | 3           |
A: Representativeness of the cohort in the intervention arm of the average person in the community from which study participants were drawn  
B: Representativeness of the cohort in the comparator arm to the intervention arm  
C: Determination of whether or not HTC was used  
D: Outcomes were adjusted for patient-level barriers (e.g., distance to testing site, income level or education level) (up to 2 points)  
E: Assessment of outcome according to gold standard measurement (Cases confirmed through two tests in countries with HIV prevalence >5% and through three tests in countries with HIV prevalence <5%)  
F: Adequate follow-up to detect the outcome (i.e. follow-up visit to determine HIV status)  
G: Attrition (i.e., retention of 70% or more of participants during the study)

1Total scores range from 0 to 8. Points are given for meeting standards of quality related to selection, confounding and measurement. Higher scores indicate low risk of bias; lower scores indicate higher risk of bias.  
*Conference abstract only, unable to assess completely
| Study                  | Population | Country                | ES (95% CI) | Tested  | Denominator |
|------------------------|------------|------------------------|-------------|---------|-------------|
| Adebajo S, 2015        | KP         | Nigeria                | 0.84 (0.84, 0.85) | 12425   | 14726       |
| Adebajo S, 2015        | KP         | Nigeria                | 0.94 (0.94, 0.95) | 14040   | 14895       |
| Chamie G.; 2017        | GP         | Uganda                 | 0.76 (0.75, 0.78) | 1929    | 2530        |
| Champenois 2012        | KP         | France                 | 1.00 (0.99, 1.00) | 532     | 532         |
| Ezeanolue 2017         | GP         | Nigeria                | 0.84 (0.82, 0.86) | 1089    | 1297        |
| Floyd S.; 2018         | GP         | Zambia                 | 0.65 (0.64, 0.65) | 24177   | 37265       |
| Fylkesnes 2013         | GP         | Zambia                 | 0.64 (0.59, 0.69) | 204     | 318         |
| Galvan 2006            | KP         | USA                    | 0.87 (0.83, 0.90) | 343     | 394         |
| Geoffroy E 2017        | GP         | Malawi                 | 0.98 (0.97, 0.98) | 5693    | 5820        |
| Khawcharoe 2017        | KP         | Thailand               | 0.41 (0.36, 0.47) | 148     | 358         |
| Krakowiak 2016         | GP         | Kenya                  | 0.94 (0.91, 0.97) | 233     | 247         |
| Lazarus L, 2016        | KP         | Canada                 | 0.85 (0.81, 0.88) | 366     | 430         |
| Mark J, Ki 2017        | GP         | Kenya                  | 0.95 (0.87, 0.98) | 70      | 74          |
| Mark J, Ki 2017        | GP         | Kenya                  | 0.97 (0.93, 0.98) | 204     | 211         |
| Mark J.; K 2015        | GP         | Kenya                  | 0.84 (0.73, 0.90) | 61      | 73          |
| Oluoch P, 2017         | GP         | Kenya                  | 1.00 (1.00, 1.00) | 35501   | 35614       |
| Outlaw 2010            | KP         | USA                    | 0.27 (0.22, 0.33) | 65      | 239         |
| Phiri M.M. 2016        | GP         | Zambia and South Africa| 0.64 (0.63, 0.64) | 17857   | 28074       |
| Phiri M.M. 2016        | GP         | Zambia and South Africa| 0.68 (0.68, 0.68) | 29348   | 43136       |
| Ruzagira E 2018        | GP         | Uganda                 | 0.90 (0.90, 0.91) | 5273    | 5837        |
| Shanaube K 2017        | GP         | Zambia                 | 0.80 (0.79, 0.81) | 3526    | 4400        |
| Shanaube K 2017        | GP         | Zambia                 | 0.71 (0.71, 0.71) | 30226   | 42596       |
| Tumwesigye 2010        | GP         | Uganda                 | 0.77 (0.76, 0.77) | 123501  | 161208      |
| Velen K, L 2016        | GP         | South Africa           | 0.33 (0.28, 0.38) | 109     | 328         |
| Wood M, El 2015        | KP         | England                | 0.83 (0.66, 0.93) | 25      | 30          |
| Overall (I^2 = 99.95%, p = 0.00) |           |                        | 0.81 (0.75, 0.86) |         |             |

**HIV testing uptake (Men)**

**Percentage %**

ScholarOne, 375 Greenbrier Drive, Charlottesville, VA, 22901
| Study / Year | Country | Tested | Positive | % Tested |
|-------------|---------|--------|----------|----------|
| Overall     |         | 1.00   | 1.00     | 0.99     |
| van Rooyen  | 2012    |        |          |          |
| Zulliger R  | 2017    |        |          |          |
| Zhang D, M | 2014    |        |          |          |
| Wasantioop  | 2018    |        |          |          |
| Vannakit R | 2016    |        |          |          |
| Suggaravet  | 2003    |        |          |          |
| Ribas Balt  | 2017    |        |          |          |
| Outlaw      | 2010    |        |          |          |
| Obare F, F  | 2009    |        |          |          |
| Nglazi MD, 2012 |    |        |          |          |
| Negin J, W | 2009    |        |          |          |
| Mutch AJ, 2017 |        |        |          |          |
| Menzies ST  | 2009    |        |          |          |
| Mdodo       | 2014    |        |          |          |
| Mark J, Ki  | 2017    |        |          |          |
| Maheswaran  | 2012    |        |          |          |
| Lipsitz, M | 2014    |        |          |          |
| Liebman J, 2002 |        |        |          |          |
| Liang TS, 2005 |      |        |          |          |
| Krakowiak  | 2016    |        |          |          |
| Knoblauch   | 2017    |        |          |          |
| Knoblauch   | 2017    |        |          |          |
| Keenan      | 2001    |        |          |          |
| Kahn RH, M  | 2003    |        |          |          |
| Hood JE, M  | 2012    |        |          |          |
| Helleringe  | 2013    |        |          |          |
| Hayes R, F | 2017    |        |          |          |
| Grabbe KL, 2010 |        |        |          |          |
| Gill        | 2014    |        |          |          |
| Geoffroy E | 2017    |        |          |          |
| Fernandez   | 2014    |        |          |          |
| DiCarlo A, 2017 |        |        |          |          |
| Chamie G.; 2017 |        |        |          |          |
| Chamie G, 2016 |        |        |          |          |
| Casalini, 2017 |        |        |          |          |
| Brunie A, 2017 |        |        |          |          |
| Bell DAYAM  | 2003    |        |          |          |
| South Africa |        |        |          |          |
| South Africa |        |        |          |          |
| China       |        |        |          |          |
| England     |        |        |          |          |
| DRC, Rwanda, Burundi, Congo & Nigeria | | | | |
| South Africa |        |        |          |          |
| Zambia      |        |        |          |          |
| Zambia      |        |        |          |          |
| Botswana    |        |        |          |          |
| Denmark     |        |        |          |          |
| Zambia and South Africa | | | | |
| Vietnam     |        |        |          |          |
| eSwatini    |        |        |          |          |
| Uganda      |        |        |          |          |
| Kenya       |        |        |          |          |
| South Africa |        |        |          |          |
| South Africa |        |        |          |          |
| Zimbabwe    |        |        |          |          |
| France      |        |        |          |          |
| Australia   |        |        |          |          |
| Peru        |        |        |          |          |
| Canada      |        |        |          |          |
| Spain       |        |        |          |          |
| Spain       |        |        |          |          |
| United States |        |        |          |          |
| Zimbabwe    |        |        |          |          |
| Tanzania    |        |        |          |          |
| Brazil      |        |        |          |          |
| Australia   |        |        |          |          |
| Uganda      |        |        |          |          |
| Uganda      |        |        |          |          |
| USA         |        |        |          |          |
| Cameroon    |        |        |          |          |
| United Kingdom |        |        |          |          |

% tested male

| Study / Year | % Tested | 95% CI |
|-------------|----------|-------|
| Overall     | 0.99     | 0.98  |
| van Rooyen  |          |       |
| Zulliger R  |          |       |
| Zhang D, M |          |       |
| Wasantioop  |          |       |
| Vannakit R |          |       |
| Suggaravet  |          |       |
| Ribas Balt  |          |       |
| Outlaw      |          |       |
| Obare F, F  |          |       |
| Nglazi MD, 2012 |     |       |
| Negin J, W |          |       |
| Mutch AJ, 2017 |        |       |
| Menzies ST  |          |       |
| Mdodo       |          |       |
| Mark J, Ki  |          |       |
| Maheswaran  |          |       |
| Lipsitz, M |          |       |
| Liebman J, 2002 |        |       |
| Liang TS, 2005 |      |       |
| Krakowiak  |          |       |
| Knoblauch   |          |       |
| Knoblauch   |          |       |
| Keenan      |          |       |
| Kahn RH, M |          |       |
| Hood JE, M  |          |       |
| Helleringe  |          |       |
| Hayes R, F |          |       |
| Grabbe KL, 2010 |        |       |
| Gill        |          |       |
| Geoffroy E |          |       |
| Fernandez   |          |       |
| DiCarlo A, 2017 |        |       |
| Chamie G.; 2017 |        |       |
| Chamie G, 2016 |        |       |
| Casalini, 2017 |        |       |
| Brunie A, 2017 |        |       |
| Bell DAYAM  |          |       |
| South Africa |          |       |
| South Africa |          |       |
| China       |          |       |
| England     |          |       |
| DRC, Rwanda, Burundi, Congo & Nigeria | |       |
| South Africa |          |       |
| Zambia      |          |       |
| Zambia      |          |       |
| Botswana    |          |       |
| Denmark     |          |       |
| Zambia and South Africa | |       |
| Vietnam     |          |       |
| eSwatini    |          |       |
| Uganda      |          |       |
| Kenya       |          |       |
| South Africa |          |       |
| South Africa |          |       |
| Zimbabwe    |          |       |
| France      |          |       |
| Australia   |          |       |
| Peru        |          |       |
| Canada      |          |       |
| Spain       |          |       |
| Spain       |          |       |
| United States |          |       |
| Zimbabwe    |          |       |
| Tanzania    |          |       |
| Brazil      |          |       |
| Australia   |          |       |
| Uganda      |          |       |
| Uganda      |          |       |
| USA         |          |       |
| Cameroon    |          |       |
| United Kingdom |          |       |

Int J STD AIDS
| Study                  | Population | Country            | ES (95% CI)            | Positive | New Positive |
|-----------------------|------------|--------------------|------------------------|----------|--------------|
| Bailey, A. 2008       | KP         | England            | 1.00 (0.70, 1.00)      | 9        | 9            |
| Dalal W, F 2013       | GP         | Kenya              | 0.42 (0.39, 0.44)      | 1613     | 673          |
| DiCarlo A, 2017       | GP         | Lesotho            | 1.00 (0.82, 1.00)      | 17       | 17           |
| Fernandez- 2014       | GP         | Spain              | 1.00 (0.21, 1.00)      | 1        | 1            |
| Fernandez- 2014       | KP         | Spain              | 1.00 (0.83, 1.00)      | 19       | 19           |
| Fernández 2014        | GP         | Spain              | 1.00 (0.85, 1.00)      | 22       | 22           |
| Floyd S.; 2017        | GP         | Zambia             | 0.24 (0.23, 0.25)      | 3405     | 817          |
| Floyd S.; 2018        | GP         | Zambia             | 1.00 (1.00, 1.00)      | 835      | 835          |
| Helleringe 2013       | GP         | Malawi             | 0.13 (0.02, 0.47)      | 8        | 1            |
| Herce ME, 2018        | KP         | Malawi and Angola  | 0.82 (0.61, 0.93)      | 22       | 18           |
| Miligan 2014          | KP         | USA                | 1.00 (0.44, 1.00)      | 3        | 3            |
| Nglazi MD, 2012       | GP         | South Africa       | 1.00 (0.99, 1.00)      | 617      | 617          |
| Nglazi MD, 2012       | GP         | South Africa       | 1.00 (0.99, 1.00)      | 276      | 276          |
| Roland M.; 2018       | GP         | Botswana           | 1.00 (0.99, 1.00)      | 403      | 403          |
| Roland M.; 2018       | GP         | Botswana           | 1.00 (0.99, 1.00)      | 531      | 531          |
| Shanaube K 2017       | GP         | Zambia             | 1.00 (1.00, 1.00)      | 1715     | 1715         |
| Spielberg, 2005       | KP         | USA                | 1.00 (0.80, 1.00)      | 15       | 15           |
| Valencia J 2018       | KP         | Spain              | 1.00 (0.65, 1.00)      | 7        | 7            |
| Yan, H. et 2014       | KP         | China              | 1.00 (0.99, 1.00)      | 745      | 745          |

Overall (I^2 = 99.82%, p = 0.00)
| Study                  | Country          | ES (95% CI)       | Linked | Positive |
|-----------------------|------------------|-------------------|--------|----------|
| Arumainaya 2009       | United Kingdom   | 1.00 (0.61, 1.00) | 6      | 6        |
| Bailey, A. 2008       | England          | 1.00 (0.70, 1.00) | 9      | 9        |
| Champenois 2012       | France           | 0.80 (0.55, 0.93) | 12     | 15       |
| Daskalakis 2009       | USA              | 0.75 (0.53, 0.89) | 15     | 20       |
| Galvan 2006           | USA              | 1.00 (0.80, 1.00) | 15     | 15       |
| Ifekandu 2014         | Nigeria          | 1.00 (0.94, 1.00) | 64     | 64       |
| Khawcharoe 2017       | Thailand         | 0.48 (0.30, 0.67) | 12     | 25       |
| Lister 2005           | Australia        | 1.00 (0.34, 1.00) | 2      | 2        |
| Medley A, 2013        | Kenya            | 0.22 (0.17, 0.26) | 74     | 344      |
| Meulbroek 2013        | Spain            | 0.90 (0.87, 0.92) | 556    | 618      |
| Miligan 2014          | USA              | 1.00 (0.44, 1.00) | 3      | 3        |
| Qvist, T. 2014        | Denmark          | 0.97 (0.86, 1.00) | 36     | 37       |
| Rose 2006             | USA              | 0.50 (0.09, 0.91) | 1      | 2        |
| Stein 2011            | USA              | 0.81 (0.66, 0.91) | 30     | 37       |
| Williams D 2018       | South Africa     | 0.96 (0.92, 0.98) | 159    | 166      |
| Wood M, E. 2015       | England          | 1.00 (0.21, 1.00) | 1      | 1        |
| van Zyl MA 2015       | South Africa     | 0.47 (0.41, 0.52) | 160    | 343      |
| Overall (I^2 = 98.02%, p = 0.00) |                | 0.88 (0.68, 1.00) |        |          |
| Study          | Population | Country     | ES (95% CI) | Positive | ART |
|---------------|------------|-------------|-------------|----------|-----|
| Floyd S.; 2017 | GP         | Zambia      | 0.64 (0.63, 0.66) | 3405     | 2196 |
| Medley A, 2013 | GP         | Kenya       | 0.05 (0.03, 0.08) | 344      | 17  |
| Qvist, T. 2014 | KP         | Denmark     | 0.97 (0.86, 1.00) | 37       | 36  |
| Williams D 2018| GP         | South Africa | 0.95 (0.90, 0.97) | 166      | 157 |
| Overall (I^2 = 99.62%, p = 0.00) | | | 0.67 (0.25, 0.98) | | |
| Study                  | Population | Country   | ES (95% CI)       | Tested | Denominator |
|-----------------------|------------|-----------|-------------------|--------|-------------|
| Adebajo S, 2015       | KP         | Nigeria   | 0.84 (0.84, 0.85) | 12425  | 14726       |
| Adebajo S, 2015       | KP         | Nigeria   | 0.94 (0.94, 0.95) | 14040  | 14895       |
| Champenois 2012       | KP         | France    | 1.00 (0.99, 1.00) | 532    | 532         |
| Galvan 2006           | KP         | USA       | 0.87 (0.83, 0.90) | 343    | 394         |
| Khawcharoe 2017       | KP         | Thailand  | 0.41 (0.36, 0.47) | 148    | 358         |
| Lazarus L, 2016       | KP         | Canada    | 0.85 (0.81, 0.88) | 366    | 430         |
| Outlaw 2010           | KP         | USA       | 0.27 (0.22, 0.33) | 65     | 239         |
| Wood M, El 2015       | KP         | England   | 0.83 (0.66, 0.93) | 25     | 30          |
| Overall (I^2 = 99.63%, p = 0.00) |            |           | 0.80 (0.70, 0.88) |        |             |
| Study               | Country            | ES (95% CI) | Tested | Tested |
|--------------------|--------------------|-------------|--------|--------|
| Adebajo S, 2015    | Nigeria            | 1.00 (1.00, 1.00) | 12425  | 12425  |
| Adebajo S, 2015    | Nigeria            | 1.00 (1.00, 1.00) | 14040  | 14040  |
| Arumainaya 2009    | United Kingdom     | 1.00 (0.98, 1.00) | 168    | 168    |
| Bailey, A. 2008    | England            | 1.00 (0.99, 1.00) | 280    | 280    |
| Belza MJ, 2015     | Spain              | 1.00 (1.00, 1.00) | 3004   | 3004   |
| Bingham 2008       | USA                | 1.00 (0.99, 1.00) | 458    | 458    |
| Bradshaw 2005      | Australia          | 0.64 (0.58, 0.69) | 197    | 309    |
| Bucher 2007        | USA                | 0.76 (0.73, 0.78) | 919    | 1213   |
| Casalini, 2017     | Tanzania           | 0.10 (0.10, 0.11) | 3995   | 39180  |
| Castro R, 2016     | Brazil             | 1.00 (0.99, 1.00) | 756    | 756    |
| Castro R, 2016     | Brazil             | 0.95 (0.94, 0.97) | 756    | 793    |
| Champenois 2012    | France             | 1.00 (0.99, 1.00) | 532    | 532    |
| Daskalakis 2009    | USA                | 1.00 (0.99, 1.00) | 493    | 493    |
| Des Jarfai 2016    | Vietnam            | 1.00 (0.93, 1.00) | 49     | 49     |
| DiFrancis 1998     | USA                | 0.56 (0.56, 0.57) | 6868   | 12171  |
| Fernandez- 2014    | Spain              | 1.00 (1.00, 1.00) | 2559   | 2559   |
| Ferrer L, 2015     | Spain              | 1.00 (1.00, 1.00) | 3544   | 3544   |
| Galvan 2006        | USA                | 1.00 (0.99, 1.00) | 343    | 343    |
| Gill 2014          | United Kingdom     | 0.40 (0.20, 0.64) | 6      | 15     |
| Herce ME, 2018     | Malawi and Angola  | 1.00 (1.00, 1.00) | 832    | 832    |
| Hoenigl M, 2016    | United States      | 1.00 (1.00, 1.00) | 8926   | 8926   |
| Ifekandu 2014      | Nigeria            | 1.00 (0.99, 1.00) | 356    | 356    |
| Kakalou 2014       | Greece             | 0.74 (0.66, 0.81) | 87     | 117    |
| Keenan 2001        | USA                | 1.00 (0.74, 1.00) | 11     | 11     |
| Keenan 2001        | USA                | 0.68 (0.65, 0.72) | 502    | 735    |
| Khawcharo 2017     | Thailand           | 1.00 (0.97, 1.00) | 148    | 148    |
| Kimbrough 2009     | USA                | 0.68 (0.66, 0.69) | 2152   | 3172   |
| Knight, V. 2014    | Australia          | 1.00 (0.98, 1.00) | 182    | 182    |
| Krisantu, 2017     | Thailand           | 1.00 (0.98, 1.00) | 224    | 224    |
| Lahuerta 2010      | Guatemala          | 0.44 (0.41, 0.47) | 362    | 823    |
| Lazarus L, 2016    | Canada             | 0.80 (0.76, 0.83) | 366    | 458    |
| Lessard D, 2016    | Canada             | 1.00 (1.00, 1.00) | 1353   | 1353   |
| Liang 2005         | USA                | 0.61 (0.56, 0.65) | 268    | 439    |
| Lipsitz, M 2014    | Peru               | 0.87 (0.85, 0.88) | 1387   | 1602   |
| Lister 2005        | Australia          | 1.00 (0.96, 1.00) | 102    | 102    |
| Lorente 2013       | France             | 1.00 (0.98, 1.00) | 211    | 211    |
| Marcus U, 2015     | Germany            | 1.00 (1.00, 1.00) | 1413   | 1413   |
| Mddo 2014          | USA                | 1.00 (1.00, 1.00) | 1072   | 1072   |
| Meulbroek 2013     | Spain              | 1.00 (1.00, 1.00) | 14453  | 14453  |
| Miligan 2014       | USA                | 1.00 (0.97, 1.00) | 109    | 109    |
| Ngunu-Gitu 2017    | Kenya              | 0.19 (0.18, 0.20) | 1255   | 6602   |
| Outlaw 2010        | USA                | 1.00 (0.94, 1.00) | 65     | 65     |
| Pham M, 2017       | Vietnam            | 0.90 (0.87, 0.92) | 543    | 603    |
| Qvist, T. 2014     | Denmark            | 1.00 (1.00, 1.00) | 3012   | 3012   |
| Ribas Bal 2017     | Spain              | 0.67 (0.66, 0.68) | 3602   | 5385   |
| Robert E B 2016    | Ukraine            | 0.75 (0.72, 0.77) | 899    | 1200   |
| Rose 2006          | USA                | 0.90 (0.71, 0.97) | 19     | 21     |
| Smyrnov, P 2017    | Ukraine            | 0.69 (0.69, 0.70) | 9669   | 13936  |
| Spielberg, 2005    | USA                | 0.71 (0.66, 0.76) | 230    | 324    |
| Spielberg, 2005    | USA                | 1.00 (0.99, 1.00) | 437    | 437    |
| Stein 2011         | USA                | 1.00 (1.00, 1.00) | 1723   | 1723   |
| Vannakir R 2016    | Thailand           | 0.71 (0.68, 0.74) | 731    | 1029   |
| Wasantlopp 2018    | Thailand           | 0.84 (0.82, 0.85) | 1606   | 1923   |
| Wood M, E 2015     | England            | 1.00 (0.87, 1.00) | 25     | 25     |
| Yan, H. et 2014    | China              | 1.00 (1.00, 1.00) | 17091  | 17091  |
| Zhang 2014         | China              | 1.00 (1.00, 1.00) | 31406  | 31406  |
| Zulliger R 2017    | USA                | 1.00 (1.00, 1.00) | 27475  | 27475  |

Overall (I² = 99.98%, p = 0.00)
### Study Details

| Study          | Population | Country                  | ES (95% CI) | Positive | Positive |
|---------------|------------|--------------------------|-------------|----------|----------|
| Bailey, A. 2008 | KP         | England                  | 1.00 (0.70, 1.00) | 9        | 9        |
| Fernandez- 2014 | KP         | Spain                    | 1.00 (0.83, 1.00) | 19       | 19       |
| Herce ME, 2018  | KP         | Malawi and Angola        | 0.82 (0.61, 0.93) | 22       | 18       |
| Miligan 2014   | KP         | USA                      | 1.00 (0.44, 1.00) | 3        | 3        |
| Spielberg, 2005 | KP         | USA                      | 1.00 (0.80, 1.00) | 15       | 15       |
| Valencia J 2018 | KP         | Spain                    | 1.00 (0.65, 1.00) | 7        | 7        |
| Yan, H. et 2014 | KP         | China                    | 1.00 (0.99, 1.00) | 745      | 745      |
| **Overall**    | ****       | ****                     | **1.00 (0.94, 1.00)** | ****     | ****     |
### Study Results

| Study            | Country       | ES (95% CI)       | Linked | Positive |
|------------------|---------------|-------------------|--------|----------|
| Arumainaya 2009  | United Kingdom| 1.00 (0.61, 1.00) | 6      | 6        |
| Bailey, A. 2008  | England       | 1.00 (0.70, 1.00) | 9      | 9        |
| Champenois 2012  | France        | 0.80 (0.55, 0.93) | 12     | 15       |
| Daskalakis 2009  | USA           | 0.75 (0.53, 0.89) | 15     | 20       |
| Galvan 2006      | USA           | 1.00 (0.80, 1.00) | 15     | 15       |
| Ifekandu 2014    | Nigeria       | 1.00 (0.94, 1.00) | 64     | 64       |
| Khawcharoe 2017  | Thailand      | 0.48 (0.30, 0.67) | 12     | 25       |
| Lister 2005      | Australia     | 1.00 (0.34, 1.00) | 2      | 2        |
| Meulbroek 2013   | Spain         | 0.90 (0.87, 0.92) | 556    | 618      |
| Miligan 2014     | USA           | 1.00 (0.44, 1.00) | 3      | 3        |
| Qvist, T. 2014   | Denmark       | 0.97 (0.86, 1.00) | 36     | 37       |
| Rose 2006        | USA           | 0.50 (0.09, 0.91) | 1      | 2        |
| Stein 2011       | USA           | 0.81 (0.66, 0.91) | 30     | 37       |
| Wood M, E. 2015  | England       | 1.00 (0.21, 1.00) | 1      | 1        |
| **Overall**      | **United States** | **0.94 (0.85, 1.00)** |       |          |
Study | Country | ES (95% CI) | SO_ARTinitiatem | Positive
--- | --- | --- | --- | ---
Qvist, T. 2014 | Denmark | 0.97 (0.86, 1.00) | 36 | 37

Percentage %
HIV testing uptake (Men)

| Study                        | Population | Country            | ES (95% CI) | Tested | Denominator |
|------------------------------|------------|--------------------|-------------|--------|-------------|
| **Combination**              |            |                    |             |        |             |
| Outlaw 2010                  | KP         | USA                | 0.27 (0.22, 0.33) | 65     | 239         |
| **Stand-alone**              |            |                    |             |        |             |
| Champenois 2012              | KP         | France             | 1.00 (0.99, 1.00) | 532    | 532         |
| Lazarus L, 2016              | KP         | Canada             | 0.85 (0.81, 0.88) | 366    | 430         |
| Subtotal (I^2 = .%, p = .)   |            |                    | 0.97 (0.95, 0.98) |        |             |
| **Outreach**                 |            |                    |             |        |             |
| Adebajo S, 2015              | KP         | Nigeria            | 0.84 (0.84, 0.85) | 12425  | 14726       |
| Adebajo S, 2015              | KP         | Nigeria            | 0.94 (0.94, 0.95) | 14040  | 14895       |
| Chamie & 2017                | GP         | Uganda             | 0.76 (0.75, 0.78) | 1929   | 2530        |
| Ezeanolue 2017               | GP         | Nigeria            | 0.84 (0.82, 0.86) | 1089   | 1297        |
| Galvan 2006                  | KP         | USA                | 0.87 (0.83, 0.90) | 343    | 394         |
| Khawcharoe 2017              | KP         | Thailand           | 0.41 (0.36, 0.47) | 148    | 358         |
| Wood M, El 2015              | KP         | England            | 0.83 (0.66, 0.93) | 25     | 30          |
| Subtotal (I^2 = 99.61%, p = 0.00) |            |                    | 0.80 (0.71, 0.88) |        |             |
| **Home-based**               |            |                    |             |        |             |
| Floyd S.; 2018               | GP         | Zambia             | 0.65 (0.64, 0.65) | 24177  | 37265       |
| Fylkesnes 2013               | GP         | Zambia             | 0.64 (0.59, 0.69) | 204    | 318         |
| Geoffroy E 2017              | GP         | Malawi             | 0.98 (0.97, 0.98) | 5693   | 5820        |
| Krakowiak 2016               | GP         | Kenya              | 0.94 (0.91, 0.97) | 233    | 247         |
| Mark J, Ki 2017              | GP         | Kenya              | 0.95 (0.87, 0.98) | 70     | 74          |
| Mark J, Ki 2017              | GP         | Kenya              | 0.97 (0.93, 0.98) | 204    | 211         |
| Mark J., K 2015              | GP         | Kenya              | 0.84 (0.73, 0.90) | 61     | 73          |
| Oluooh P, 2017               | GP         | Kenya              | 1.00 (1.00, 1.00) | 35501  | 35614       |
| Phiri M.M. 2016              | GP         | Zambia and South Africa | 0.64 (0.63, 0.64) | 17857  | 28074       |
| Phiri M.M. 2016              | GP         | Zambia and South Africa | 0.68 (0.68, 0.68) | 29348  | 43136       |
| Ruzagira 2018                | GP         | Uganda             | 0.90 (0.90, 0.91) | 5273   | 5837        |
| Shanaube K 2017              | GP         | Zambia             | 0.80 (0.79, 0.81) | 3526   | 4400        |
| Shanaube K 2017              | GP         | Zambia             | 0.71 (0.71, 0.71) | 30226  | 42596       |
| Tumwesigye 2010              | GP         | Uganda             | 0.77 (0.76, 0.77) | 123501 | 161208      |
| Subtotal (I^2 = 99.97%, p = 0.00) |            |                    | 0.84 (0.76, 0.91) |        |             |
| **TB index testing**         |            |                    |             |        |             |
| Velen K, L 2016              | GP         | South Africa       | 0.33 (0.28, 0.38) | 109    | 328         |

Heterogeneity between groups: p = 0.000
Overall (I^2 = 99.95%, p = 0.00); 0.81 (0.75, 0.86)
### % new HIV positive - Male

| Study                  | Population | Country            | ES (95% CI) | Positive | New Positive |
|------------------------|------------|--------------------|-------------|----------|--------------|
| **Stand-alone**        |            |                    |             |          |              |
| Bailey, A. 2008        | KP         | England            | 1.00 (0.70, 1.00) | 9        | 9            |
| Yan, H. et 2014        | KP         | China              | 1.00 (0.99, 1.00) | 745      | 745          |
| **Subtotal (I^2 = .%, p = .)** |       |                    | 1.00 (1.00, 1.00) |          |              |
| **Outreach**           |            |                    |             |          |              |
| Fernandez 2014         | GP         | Spain              | 1.00 (0.21, 1.00) | 1        | 1            |
| Fernandez 2014         | KP         | Spain              | 1.00 (0.83, 1.00) | 19       | 19           |
| Fernã¡nd 2015         | GP         | Spain              | 1.00 (0.85, 1.00) | 22       | 22           |
| Herce ME, 2018         | KP         | Malawi and Angola  | 0.82 (0.61, 0.93) | 22       | 18           |
| Nglazi MD, 2012        | GP         | South Africa       | 1.00 (0.99, 1.00) | 617      | 617          |
| Nglazi MD, 2012        | GP         | South Africa       | 1.00 (0.99, 1.00) | 276      | 276          |
| Roland M.; 2018        | GP         | Botswana           | 1.00 (0.99, 1.00) | 531      | 531          |
| Spielberg, 2005        | KP         | USA                | 1.00 (0.80, 1.00) | 15       | 15           |
| Valencia J 2018        | KP         | Spain              | 1.00 (0.65, 1.00) | 7        | 7            |
| **Subtotal (I^2 = 59.70%, p = 0.01)** | | | 1.00 (1.00, 1.00) |          |              |
| **Home-based**         |            |                    |             |          |              |
| Dalal W, F 2013        | GP         | Kenya              | 0.42 (0.39, 0.44) | 1613     | 673          |
| Floyd S.; 2017         | GP         | Zambia             | 0.24 (0.23, 0.25) | 3405     | 817          |
| Floyd S.; 2018         | GP         | Zambia             | 1.00 (1.00, 1.00) | 835      | 835          |
| Helleringe 2013        | GP         | Malawi             | 0.13 (0.02, 0.47) | 8        | 1            |
| Roland M.; 2018        | GP         | Botswana           | 1.00 (0.99, 1.00) | 403      | 403          |
| Shanaube K 2017        | GP         | Zambia             | 1.00 (1.00, 1.00) | 1715     | 1715         |
| **Subtotal (I^2 = 99.93%, p = 0.00)** | | | 0.76 (0.32, 1.00) |          |              |
| **Index/PN**           |            |                    |             |          |              |
| DiCarlo A, 2017        | GP         | Lesotho            | 1.00 (0.82, 1.00) | 17       | 17           |
| **School-based**       |            |                    |             |          |              |
| Miligan 2014           | KP         | USA                | 1.00 (0.44, 1.00) | 3        | 3            |
| **Heterogeneity between groups: p = 0.110** | | | | | |
| **Overall (I^2 = 99.82%, p = 0.00);** | | | 0.97 (0.78, 1.00) | | |
| Study                    | Country     | ES (95% CI) | Linked | Positive |
|-------------------------|-------------|-------------|--------|----------|
| Combination             |             |             |        |          |
| Qvist, T. 2014          | Denmark     | 0.97 (0.86, 1.00) | 36     | 37       |
| Stein 2011              | USA         | 0.81 (0.66, 0.91)  | 30     | 37       |
| Subtotal (I^2 = .%, p = .) |             | 0.91 (0.83, 0.97)  |        |          |
| Stand-alone             |             |             |        |          |
| Bailey, A. 2008         | England     | 1.00 (0.70, 1.00)  | 9      | 9        |
| Champenois 2012         | France      | 0.80 (0.55, 0.93)  | 12     | 15       |
| Meulbroek 2013          | Spain       | 0.90 (0.87, 0.92)  | 556    | 618      |
| Subtotal (I^2 = .%, p = .) |             | 0.92 (0.84, 0.97)  |        |          |
| Outreach                |             |             |        |          |
| Arumainaya 2009         | United Kingdom | 1.00 (0.61, 1.00)  | 6      | 6        |
| Daskalakis 2009         | USA         | 0.75 (0.53, 0.89)  | 15     | 20       |
| Galvan 2006             | USA         | 1.00 (0.80, 1.00)  | 15     | 15       |
| Ifekandu 2014           | Nigeria     | 1.00 (0.94, 1.00)  | 64     | 64       |
| Khawcharoe 2017         | Thailand    | 0.48 (0.30, 0.67)  | 12     | 25       |
| Lister 2005             | Australia   | 1.00 (0.34, 1.00)  | 2      | 2        |
| Rose 2006               | USA         | 0.50 (0.09, 0.91)  | 1      | 2        |
| Williams D 2018         | South Africa | 0.96 (0.92, 0.98)  | 159    | 166      |
| Wood M, El 2015         | England     | 1.00 (0.21, 1.00)  | 1      | 1        |
| van Zyl MA 2015         | South Africa | 0.47 (0.41, 0.52)  | 160    | 343      |
| Subtotal (I^2 = 96.52%, p = 0.00) |             | 0.90 (0.62, 1.00)  |        |          |
| Home-based              |             |             |        |          |
| Medley A, 2013          | Kenya       | 0.22 (0.17, 0.26)  | 74     | 344      |
| School-based            |             |             |        |          |
| Miligan 2014            | USA         | 1.00 (0.44, 1.00)  | 3      | 3        |

Heterogeneity between groups: p = 0.000
Overall (I^2 = 98.02%, p = 0.00); 0.88 (0.68, 1.00)
| Study          | Country       | ES (95% CI)      | ART | Positive |
|---------------|---------------|-----------------|-----|----------|
| Combination   |               |                 |     |          |
| Qvist, T. 2014| Denmark       | 0.97 (0.86, 1.00)| 36  | 37       |
| Outreach      |               |                 |     |          |
| Williams D 2018| South Africa  | 0.95 (0.90, 0.97)| 157 | 166      |
| Home-based    |               |                 |     |          |
| Floyd S.; 2017| Zambia        | 0.64 (0.63, 0.66)| 2196| 3405     |
| Medley A, 2013| Kenya         | 0.05 (0.03, 0.08)| 17  | 344      |
| Subtotal      |               | 0.58 (0.57, 0.60)|     |          |
| Heterogeneity between groups: p = 0.000 |
| Overall       |               | 0.67 (0.25, 0.98)|     |          |
### HIV testing uptake (Men)

| Study                | Population | Country    | ES (95% CI)       | Tested | Denominator |
|----------------------|------------|------------|-------------------|--------|-------------|
| **Stand-alone**      |            |            |                   |        |             |
| Champenois 2012      | KP         | France     | 1.00 (0.99, 1.00) | 532    | 532         |
| Lazarus L, 2016      | KP         | Canada     | 0.85 (0.81, 0.88) | 366    | 430         |
| **Subtotal** (I^2 = .%, p = .) |        |            | 0.97 (0.95, 0.98) |        |             |
| **Outreach**         |            |            |                   |        |             |
| Adebajo S, 2015      | KP         | Nigeria    | 0.84 (0.84, 0.85) | 12425  | 14726       |
| Adebajo S, 2015      | KP         | Nigeria    | 0.94 (0.94, 0.95) | 14040  | 14895       |
| Galvan 2006          | KP         | USA        | 0.87 (0.83, 0.90) | 343    | 394         |
| Khawcharoe 2017      | KP         | Thailand   | 0.41 (0.36, 0.47) | 148    | 358         |
| Wood M, El 2015      | KP         | England    | 0.83 (0.66, 0.93) | 25     | 30          |
| **Subtotal** (I^2 = 99.67%, p = 0.00) |        |            | 0.80 (0.69, 0.89) |        |             |
| **Combination**      |            |            |                   |        |             |
| Outlaw 2010          | KP         | USA        | 0.27 (0.22, 0.33) | 65     | 239         |

**Heterogeneity between groups: p = 0.000**

**Overall** (I^2 = 99.63%, p = 0.00); 0.80 (0.70, 0.88)
| Study          | Country         | % tested male | Testes | Tested |
|---------------|-----------------|---------------|--------|--------|
| Bailey, A. 2008 | England         | 1.00 (0.98, 1.00) | 280    | 280    |
| Champenois 2012 | France          | 1.00 (0.98, 1.00) | 532    | 532    |
| Des Jarlai 2016 | Vietnam         | 1.00 (0.93, 1.00) | 49     | 49     |
| Fermi L. 2015  | Spain           | 1.00 (1.00, 1.00) | 3544   | 3544   |
| Kimbrough 2009 | USA             | 0.86 (0.86, 0.89) | 2152   | 3172   |
| Knight, V. 2014 | Australia      | 1.00 (0.98, 1.00) | 182    | 182    |
| Lazarus L. 2016 | Canada         | 0.80 (0.76, 0.83) | 368    | 458    |
| Lessard C. 2016 | Canada         | 1.00 (1.00, 1.00) | 1353   | 1353   |
| Lorente 2013   | France          | 1.00 (0.98, 1.00) | 211    | 211    |
| Meubroek 2013  | Spain           | 1.00 (1.00, 1.00) | 14453  | 14453  |
| Pham M. 2017   | Vietnam         | 0.90 (0.87, 0.92) | 543    | 603    |
| Robert E B 2016 | Ukraine       | 0.75 (0.72, 0.77) | 899    | 1200   |
| Vannakit R. 2016 | Thailand     | 0.71 (0.68, 0.74) | 731    | 1029   |
| Yan, H. et al. 2014 | China    | 1.00 (1.00, 1.00) | 17091  | 17091  |

Subtotal (p² = 99.80%, p = 0.00)

Outreach

| Study          | % tested male | Testes | Tested |
|---------------|---------------|--------|--------|
| Adebayo S. 2015 | Nigeria       | 1.00 (1.00, 1.00) | 12425  | 12425  |
| Adebayo S. 2015 | Nigeria       | 1.00 (1.00, 1.00) | 14040  | 14040  |
| Arumainaiy 2009 | United Kingdom | 1.00 (0.98, 1.00) | 168    | 168    |
| Beza MJ. 2015  | Spain         | 1.00 (1.00, 1.00) | 3004   | 3004   |
| Birmingham 2006 | USA           | 1.00 (0.98, 1.00) | 455    | 455    |
| Bradshaw 2005  | Australia     | 0.64 (0.58, 0.69) | 197    | 309    |
| Bucher 2007    | USA           | 0.76 (0.73, 0.78) | 919    | 1213   |
| Daskalakis 2009 | USA           | 1.00 (0.98, 1.00) | 493    | 493    |
| DiFrancesco 1998 | USA          | 0.56 (0.56, 0.57) | 6868   | 12171  |
| Fernandes-2014 | Spain         | 1.00 (1.00, 1.00) | 2559   | 2559   |
| Galvan 2006    | USA           | 1.00 (0.98, 1.00) | 343    | 343    |
| Herce ME. 2018 | Malawi and Angola | 1.00 (1.00, 1.00) | 332    | 332    |
| Ikandu 2014    | Nigeria       | 1.00 (0.98, 1.00) | 356    | 356    |
| Kakalou 2014   | Greece        | 0.74 (0.66, 0.81) | 87     | 117    |
| Keenan 2001    | USA           | 1.00 (0.74, 1.00) | 11     | 11     |
| Keenan 2001    | USA           | 0.68 (0.65, 0.72) | 502    | 735    |
| Khawcharoen 2017 | Thailand      | 1.00 (0.97, 1.00) | 148    | 148    |
| Krisintu, 2017 | Thailand      | 1.00 (0.98, 1.00) | 224    | 224    |
| Lahuerta 2010  | Guatemala     | 0.44 (0.41, 0.47) | 362    | 823    |
| Liang 2005     | USA           | 0.61 (0.56, 0.65) | 268    | 439    |
| Lipid M. 2014  | Peru          | 0.87 (0.85, 0.88) | 1387   | 1602   |
| Liston 2005    | Australia     | 1.00 (0.96, 1.00) | 102    | 102    |
| Marcus W. 2015 | Germany       | 1.00 (1.00, 1.00) | 1413   | 1413   |
| Modolo 2014    | USA           | 1.00 (1.00, 1.00) | 1072   | 1072   |
| Nguru-Gl1 2017 | Kenya         | 0.19 (0.18, 0.20) | 1255   | 6602   |
| Rose 2006      | USA           | 0.90 (0.71, 0.97) | 19     | 21     |
| Smynov, P 2017 | Ukraine       | 0.69 (0.69, 0.70) | 9669   | 13936  |
| Spielberg, 2005 | USA           | 0.71 (0.66, 0.76) | 230    | 324    |
| Spielberg, 2005 | USA           | 1.00 (0.99, 1.00) | 437    | 437    |
| Wiesandt 2018  | Thailand      | 0.84 (0.82, 0.85) | 1606   | 1823   |
| Wood M. El 2015 | England       | 1.00 (0.87, 1.00) | 25     | 25     |

Subtotal (p² = 99.93%, p = 0.00)

Combination

| Study          | % tested male | Testes | Tested |
|---------------|---------------|--------|--------|
| Casalini, 2017 | Tanzania      | 0.10 (0.10, 0.11) | 3955   | 39180  |
| Castro R. 2016 | Brazil        | 1.00 (0.99, 1.00) | 756    | 756    |
| Castro R. 2016 | Brazil        | 0.95 (0.94, 0.97) | 756    | 793    |
| Hawrelak M. 2016 | United States | 1.00 (1.00, 1.00) | 8626   | 8626   |
| Outlaw 2010   | USA           | 1.00 (0.94, 1.00) | 65     | 65     |
| Qvico. T. 2014 | Denmark       | 1.00 (1.00, 1.00) | 3012   | 3012   |
| Ribas Balt 2017 | Spain        | 0.67 (0.66, 0.68) | 3602   | 5385   |
| Stain 2011    | USA           | 1.00 (1.00, 1.00) | 1723   | 1723   |
| Zhang 2014    | China         | 1.00 (1.00, 1.00) | 31406  | 31406  |
| Zuliger R. 2017 | USA          | 1.00 (1.00, 1.00) | 27475  | 27475  |

Subtotal (p² = 99.99%, p = 0.00)

School-based

| Study          | % tested male | Testes | Tested |
|---------------|---------------|--------|--------|
| Gill 2014     | United Kingdom | 0.40 (0.20, 0.64) | 6     | 15     |
| Mitigan 2014  | USA           | 1.00 (0.97, 1.00) | 109   | 109    |

Subtotal (p² = ., p = ..)

Heterogeneity between groups: p = 0.533

Overall (p² = 99.98%, p = 0.00)

0.94 (0.86, 0.99)
### % new HIV positive - Male

| Study                  | Population | Country            | ES (95% CI)          | Positive | New Positive |
|------------------------|------------|--------------------|----------------------|----------|--------------|
| **Stand-alone**        |            |                    |                      |          |              |
| Bailey, A. 2008        | KP         | England            | 1.00 (0.70, 1.00)    | 9        | 9            |
| Yan, H. et 2014        | KP         | China              | 1.00 (0.99, 1.00)    | 745      | 745          |
| Subtotal (I^2 = .%, p = .) |           |                    | 1.00 (1.00, 1.00)    |          |              |
| **Outreach**           |            |                    |                      |          |              |
| Fernandez- 2014        | KP         | Spain              | 1.00 (0.83, 1.00)    | 19       | 19           |
| Herce ME, 2018         | KP         | Malawai and Angola | 0.82 (0.61, 0.93)    | 22       | 18           |
| Spielberg, 2005        | KP         | USA                | 1.00 (0.80, 1.00)    | 15       | 15           |
| Valencia J 2018        | KP         | Spain              | 1.00 (0.65, 1.00)    | 7        | 7            |
| Subtotal (I^2 = 53.33%, p = 0.09) |           |                    | 0.98 (0.86, 1.00)    |          |              |
| **School-based**       |            |                    |                      |          |              |
| Miligan 2014           | KP         | USA                | 1.00 (0.44, 1.00)    | 3        | 3            |

#### Heterogeneity between groups: p = 0.060

#### Overall (I^2 = 69.71%, p = 0.00):  
1.00 (0.94, 1.00)
### % linked - male

| Study                      | Country                  | ES (95% CI)       | Linked | Positive |
|----------------------------|--------------------------|-------------------|--------|----------|
| **Stand-alone**            |                          |                   |        |          |
| Bailey, A. 2008            | England                  | 1.00 (0.70, 1.00) | 9      | 9        |
| Champenois 2012            | France                   | 0.80 (0.55, 0.93) | 12     | 15       |
| Meulbroek 2013             | Spain                    | 0.90 (0.87, 0.92) | 556    | 618      |
| **Subtotal (I² = .%, p = .)** |                          | 0.92 (0.84, 0.97) |        |          |
| **Outreach**               |                          |                   |        |          |
| Arumainaya 2009            | United Kingdom           | 1.00 (0.61, 1.00) | 6      | 6        |
| Daskalakis 2009            | USA                      | 0.75 (0.53, 0.89) | 15     | 20       |
| Galvan 2006                | USA                      | 1.00 (0.80, 1.00) | 15     | 15       |
| Ifekandu 2014              | Nigeria                  | 1.00 (0.94, 1.00) | 64     | 64       |
| Khawcharoe 2017            | Thailand                 | 0.48 (0.30, 0.67) | 12     | 25       |
| Lister 2005                | Australia                | 1.00 (0.34, 1.00) | 2      | 2        |
| Rose 2006                  | USA                      | 0.50 (0.09, 0.91) | 1      | 2        |
| Wood M, El 2015            | England                  | 1.00 (0.21, 1.00) | 1      | 1        |
| **Subtotal (I² = 85.93%, p = 0.00)** |                          | 0.94 (0.66, 1.00) |        |          |
| **Combination**            |                          |                   |        |          |
| Qvist, T. 2014             | Denmark                  | 0.97 (0.86, 1.00) | 36     | 37       |
| Stein 2011                 | USA                      | 0.81 (0.66, 0.91) | 30     | 37       |
| **Subtotal (I² = .%, p = .)** |                          | 0.91 (0.83, 0.97) |        |          |
| **School-based**           |                          |                   |        |          |
| Miligan 2014               | USA                      | 1.00 (0.44, 1.00) | 3      | 3        |

Heterogeneity between groups: p = 0.971

Overall (I² = 77.53%, p = 0.00): 0.94 (0.85, 1.00)
| Study       | Country | ES (95% CI) | SO_ARTinitatem | Positive |
|------------|---------|-------------|----------------|----------|
| Stand-alone |         |             |                |          |
| Qvist, T. 2014 | Denmark | 0.97 (0.89, 1.00) | 36            | 37       |

Heterogeneity between groups: p = .

Overall (I^2 = .%, p = .): 0.97 (0.89, 1.00)
1390x732mm (118 x 118 DPI)
| Study                       | Population | Country                | ES (95% CI) | Tested | Denominator |
|-----------------------------|------------|------------------------|-------------|--------|-------------|
| **Africa**                  |            |                        |             |        |             |
| Adebajo S, 2015            | KP         | Nigeria                | 0.84 (0.84, 0.85) | 12425  | 14726       |
| Adebajo S, 2015            | KP         | Nigeria                | 0.94 (0.94, 0.95) | 14040  | 14895       |
| Chamie G.; 2017            | GP         | Uganda                 | 0.76 (0.75, 0.78) | 1929   | 2530        |
| Ezeanolu 2017              | GP         | Nigeria                | 0.84 (0.82, 0.86) | 1089   | 1297        |
| Floyd S.; 2018             | GP         | Zambia                 | 0.65 (0.64, 0.65) | 24177  | 37265       |
| Fylkesnes 2013             | GP         | Zambia                 | 0.64 (0.59, 0.69) | 204    | 318         |
| Geoffroy E 2017            | GP         | Malawi                 | 0.98 (0.97, 0.98) | 5693   | 5820        |
| Krakowiak 2016             | GP         | Kenya                  | 0.94 (0.91, 0.97) | 233    | 247         |
| Mark J, Ki 2017            | GP         | Kenya                  | 0.95 (0.87, 0.98) | 70     | 74          |
| Mark J, Ki 2017            | GP         | Kenya                  | 0.97 (0.93, 0.98) | 204    | 211         |
| Mark J.; K 2015            | GP         | Kenya                  | 0.84 (0.73, 0.90) | 61     | 73          |
| Phiri M.M. 2016            | GP         | Zambia and South Africa| 0.64 (0.63, 0.64) | 17857  | 28074       |
| Phiri M.M. 2016            | GP         | Zambia and South Africa| 0.68 (0.68, 0.68) | 29348  | 43136       |
| Ruzagira E 2018            | GP         | Uganda                 | 0.90 (0.90, 0.91) | 5273   | 5837        |
| Shanaube K 2017            | GP         | Zambia                 | 0.80 (0.79, 0.81) | 3526   | 4400        |
| Shanaube K 2017            | GP         | Zambia                 | 0.71 (0.71, 0.71) | 30226  | 42596       |
| Tumwesigye 2010            | GP         | Uganda                 | 0.77 (0.76, 0.77) | 123501 | 161208      |
| Velen K, L 2016            | GP         | South Africa           | 0.33 (0.28, 0.38) | 109    | 328         |
| **Subtotal (I^2 = 99.89%, p = 0.00)** |            |                        | 0.81 (0.76, 0.85) |        |             |
| **South-East Asia**        |            |                        |             |        |             |
| Khawcharoe 2017            | KP         | Thailand               | 0.41 (0.36, 0.47) | 148    | 358         |
| **Americas**               |            |                        |             |        |             |
| Galvan 2006                | KP         | USA                    | 0.87 (0.83, 0.90) | 343    | 394         |
| Lazarus L, 2016            | KP         | Canada                 | 0.85 (0.81, 0.88) | 366    | 430         |
| Oluoch P, 2017             | GP         | Kenya                  | 1.00 (1.00, 1.00) | 35501  | 35614       |
| Outlaw 2010                | KP         | USA                    | 0.27 (0.22, 0.33) | 65     | 239         |
| Bungay 2013                | KP         | Canada                 | (Excluded)   | 0      | 0           |
| Schulden 2008              | KP         | USA                    | (Excluded)   | 0      | 0           |
| Shrestha 2011              | KP         | USA                    | (Excluded)   | 0      | 0           |
| **Subtotal (I^2 = 99.75%, p = 0.00)** |            |                        | 0.80 (0.45, 0.99) |        |             |
| **Europe**                 |            |                        |             |        |             |
| Champenois 2012            | KP         | France                 | 1.00 (0.99, 1.00) | 532    | 532         |
| Wood M, El 2015            | KP         | England                | 0.83 (0.66, 0.93) | 25     | 30          |
| **Subtotal (I^2 = .%, p = .)** |            |                        | 1.00 (1.00, 1.00) |        |             |
| **Heterogeneity between groups: p = 0.000** | | | | | |
| **Overall (I^2 = 99.95%, p = 0.00)** | | | | | |

**ES (95% CI)**: Estimated effect size with 95% confidence interval.
**Tested**: Number of participants tested.
**Denominator**: Total number of people in the study.
| Study                  | Country         | ES (95% CI)   | Treated | Control |
|-----------------------|-----------------|---------------|---------|---------|
| Fernandez-Duque 2015  | Argentina       | 0.97 (0.96, 0.98) | 1088    | 1062    |
| Adamson et al. 2015   | Asia            | 0.99 (0.98, 1.00)  | 2559    | 2499    |
| Ahmed et al. 2015     | South Africa    | 1.00 (1.00, 1.00)   | 2758    | 2758    |
| Alston et al. 2015    | South Africa    | 0.99 (0.98, 1.00)   | 1353    | 1353    |
| Ali et al. 2015       | Middle East     | 0.93 (0.92, 0.94)   | 458     | 458     |
| Almeida et al. 2015   | South America   | 0.89 (0.88, 0.90)   | 196     | 196     |
| Almeida et al. 2015   | South America   | 0.90 (0.89, 0.91)   | 182     | 182     |
| Almeida et al. 2015   | South America   | 0.91 (0.90, 0.92)   | 135     | 135     |
| Almeida et al. 2015   | South America   | 0.92 (0.91, 0.93)   | 65      | 65      |
| Almeida et al. 2015   | South America   | 0.93 (0.92, 0.94)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 0.94 (0.93, 0.95)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 0.95 (0.94, 0.96)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 0.96 (0.95, 0.97)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 0.97 (0.96, 0.98)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 0.98 (0.97, 0.99)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 0.99 (0.98, 1.00)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.00 (1.00, 1.01)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.01 (1.00, 1.02)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.02 (1.01, 1.03)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.03 (1.02, 1.04)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.04 (1.03, 1.05)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.05 (1.04, 1.06)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.06 (1.05, 1.07)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.07 (1.06, 1.08)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.08 (1.07, 1.09)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.09 (1.08, 1.10)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.10 (1.09, 1.11)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.11 (1.10, 1.12)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.12 (1.11, 1.13)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.13 (1.12, 1.14)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.14 (1.13, 1.15)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.15 (1.14, 1.16)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.16 (1.15, 1.17)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.17 (1.16, 1.18)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.18 (1.17, 1.19)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.19 (1.18, 1.20)   | 735     | 735     |
| Almeida et al. 2015   | South America   | 1.20 (1.19, 1.21)   | 735     | 735     |

*Note: The table above shows the results of a meta-analysis, where 'ES' represents the effect size, 'CI' represents the confidence interval, 'Treated' and 'Control' are the groups being compared. The percentages provided are for illustrative purposes and may not correspond to real-world data.*
% new HIV positive - Male

| Study                  | Population | Country       | ES (95% CI)   | Positive | New Positive |
|------------------------|------------|---------------|---------------|----------|--------------|
| Africa                 |            |               |               |          |              |
| Dalal W, F 2013        | GP         | Kenya         | 0.42 (0.39, 0.44) | 1613     | 673          |
| DiCarlo A, 2017        | GP         | Lesotho       | 1.00 (0.82, 1.00) | 17       | 17           |
| Floyd S.; 2017         | GP         | Zambia        | 0.24 (0.23, 0.25) | 3405     | 817          |
| Floyd S.; 2018         | GP         | Zambia        | 1.00 (1.00, 1.00) | 835      | 835          |
| Helleringe 2013        | GP         | Malawi        | 0.13 (0.02, 0.47) | 8        | 1            |
| Herce ME, 2018         | KP         | Malawi and Angola | 0.82 (0.61, 0.93) | 22      | 18           |
| Nglazi MD, 2012        | GP         | South Africa  | 1.00 (0.99, 1.00) | 617      | 617          |
| Nglazi MD, 2012        | GP         | South Africa  | 1.00 (0.99, 1.00) | 276      | 276          |
| Roland M.; 2018        | GP         | Botswana      | 1.00 (0.99, 1.00) | 403      | 403          |
| Roland M.; 2018        | GP         | Botswana      | 1.00 (0.99, 1.00) | 531      | 531          |
| Shanaube K 2017        | GP         | Zambia        | 1.00 (1.00, 1.00) | 1715     | 1715         |
| Subtotal (I^2 = 99.89%, p = 0.00) |            |               | 0.90 (0.62, 1.00) |          |              |
| Americas               |            |               |               |          |              |
| Miligan 2014           | KP         | USA           | 1.00 (0.44, 1.00) | 3        | 3            |
| Spielberg, 2005        | KP         | USA           | 1.00 (0.80, 1.00) | 15       | 15           |
| Subtotal (I^2 = .%, p = .) |            |               | 1.00 (0.92, 1.00) |          |              |
| Western Pacific        |            |               |               |          |              |
| Yan, H. et 2014        | KP         | China         | 1.00 (0.99, 1.00) | 745      | 745          |
| Europe                 |            |               |               |          |              |
| Bailey, A. 2008        | KP         | England       | 1.00 (0.70, 1.00) | 9        | 9            |
| Fernandez- 2014        | GP         | Spain         | 1.00 (0.21, 1.00) | 1        | 1            |
| Fernandez- 2014        | KP         | Spain         | 1.00 (0.83, 1.00) | 19       | 19           |
| Fernández 2015         | GP         | Spain         | 1.00 (0.85, 1.00) | 22       | 22           |
| Valencia J 2018        | KP         | Spain         | 1.00 (0.65, 1.00) | 7        | 7            |
| Subtotal (I^2 = 0.00%, p = 0.96) |            |               | 1.00 (1.00, 1.00) |          |              |
| Heterogeneity between groups: p = 0.060 |            |               |               |          |              |
| Overall (I^2 = 99.82%, p = 0.00); |            |               | 0.97 (0.78, 1.00) |          |              |
| Study                  | Country              | ES (95% CI)           | Linked | Positive |
|------------------------|----------------------|-----------------------|--------|----------|
| Ifekandu 2014          | Nigeria              | 1.00 (0.94, 1.00)     | 64     | 64       |
| Medley A, 2013         | Kenya                | 0.22 (0.17, 0.26)     | 74     | 344      |
| Williams D 2018        | South Africa         | 0.96 (0.92, 0.98)     | 159    | 166      |
| van Zyl MA 2015        | South Africa         | 0.47 (0.41, 0.52)     | 160    | 343      |
| **Subtotal (I^2 = 99.37%, p = 0.00)** |                      | 0.73 (0.31, 0.99)     |        |          |
| Khawcharoe 2017        | Thailand             | 0.48 (0.30, 0.67)     | 12     | 25       |
| **Subtotal (I^2 = 52.32%, p = 0.08)** |                      | 0.90 (0.72, 1.00)     |        |          |
| Lister 2005            | Australia            | 1.00 (0.34, 1.00)     | 2      | 2        |
| **Subtotal (I^2 = 6.93%, p = 0.37)** |                      | 0.97 (0.94, 1.00)     |        |          |
| **Heterogeneity between groups: p = 0.000** |                      |                      |        |          |
| **Overall (I^2 = 98.02%, p = 0.00)** |                      | 0.88 (0.68, 1.00)     |        |          |
### Heterogeneity between groups: p = 0.048

| Study          | Country      | ES (95% CI) | ART  | Positive |
|----------------|--------------|-------------|------|----------|
| Floyd S.; 2017 | Zambia       | 0.64 (0.63, 0.66) | 2196 | 3405     |
| Medley A, 2013 | Kenya        | 0.05 (0.03, 0.08)  | 17   | 344      |
| Williams D 2018| South Africa | 0.95 (0.90, 0.97) | 157  | 166      |
| Subtotal (I^2 = 99.62%, p = 0.00) |             | 0.54 (0.09, 0.95) |      |          |
| Europe         |              |             |      |          |
| Qvist, T. 2014 | Denmark      | 0.97 (0.86, 1.00)  | 36   | 37       |

**Overall** (I^2 = 99.62%, p = 0.00): 0.67 (0.25, 0.98)
HIV testing uptake (Men)

| Study                | Population | Country | ES (95% CI) | Tested | Denominator |
|----------------------|------------|---------|-------------|--------|-------------|
| South-East Asia      |            |         |             |        |             |
| Khawcharoe 2017      | Thailand   |         | 0.41 (0.36, 0.47) | 358    |             |
| Americas             |            |         |             |        |             |
| Galvan 2006          | USA        |         | 0.87 (0.83, 0.90) | 394    |             |
| Lazarus L, 2016      | Canada     |         | 0.85 (0.81, 0.88) | 430    |             |
| Outlaw 2010          | USA        |         | 0.27 (0.22, 0.36) | 239    |             |
| Bungay 2013          | Canada     |         | (Excluded)  | 0      | 0           |
| Schulden 2008        | USA        |         | (Excluded)  | 0      | 0           |
| Shrestha 2011        | USA        |         | (Excluded)  | 0      | 0           |
| Subtotal (I^2 = .%, p = .) |         |         | 0.69 (0.32, 0.95) |        |             |
| Europe               |            |         |             |        |             |
| Champenois 2016      | France     |         | 1.00 (0.99, 1.00) | 532    |             |
| Wood M, EI 2016      | England    |         | 0.83 (0.66, 0.92) | 30     |             |
| Subtotal (I^2 = .%, p = .) |         |         | 1.00 (1.00, 1.00) |        |             |
| Africa               |            |         |             |        |             |
| Adebajo S, 2015      | Nigeria    |         | 0.84 (0.84, 0.85) | 14726  |             |
| Adebajo S, 2015      | Nigeria    |         | 0.94 (0.94, 0.95) | 14895  |             |
| Subtotal (I^2 = .%, p = .) |         |         | 0.90 (0.90, 0.90) |        |             |
| Heterogeneity between groups: p = 0.000 |          |         |             |        |             |
| Overall (I^2 = 99.63%, p = 0.00) |     |         | 0.80 (0.70, 0.88) |        |             |

Percentage %
| Study                      | Country               | ES (95% CI) | Tested | Tested |
|---------------------------|-----------------------|-------------|--------|--------|
| South-East Asia           |                       |             |        |        |
| Khawcharoen 2017          | Thailand              | 1.00 (0.97, 1.00) | 148    | 148    |
| Krasuk, 2017              | Thailand              | 1.00 (0.96, 1.00) | 224    | 224    |
| Vannabalt R 2016          | Thailand              | 0.71 (0.68, 0.74) | 731    | 1029   |
| Wasserlosp 2018           | Thailand              | 0.84 (0.82, 0.85) | 1600   | 1923   |
| Subtotal                  |                       | 0.95 (0.92, 1.00) |        |        |
| Americas                   |                       |             |        |        |
| Bingham 2008              | USA                   | 1.00 (0.96, 1.00) | 458    | 458    |
| Bucker 2007               | USA                   | 0.76 (0.73, 0.79) | 919    | 1213   |
| Caion R, 2016             | Brazil                | 1.00 (0.96, 1.00) | 758    | 758    |
| Casio R, 2016             | Brazil                | 0.95 (0.94, 0.97) | 758    | 793    |
| Desaihale 2009            | USA                   | 1.00 (0.96, 1.00) | 493    | 493    |
| Difrances 1998            | USA                   | 0.56 (0.56, 0.57) | 6888   | 12171  |
| Galvene 2006              | USA                   | 1.00 (0.96, 1.00) | 343    | 343    |
| Hoernig M, 2016           | United States         | 1.00 (1.00, 1.00) | 8926   | 8926   |
| Keshan 2001               | USA                   | 1.00 (0.74, 1.00) | 11     | 11     |
| Keshan 2001               | USA                   | 0.68 (0.65, 0.72) | 502    | 735    |
| Kimbrough 2009            | USA                   | 0.68 (0.66, 0.69) | 2152   | 3172   |
| Lathuerta 2010            | Guatemala             | 0.44 (0.41, 0.47) | 362    | 823    |
| Laccans L, 2016           | Canada                | 0.80 (0.76, 0.83) | 366    | 458    |
| Lexsor D, 2016            | Canada                | 1.00 (1.00, 1.00) | 1353   | 1353   |
| Liang 2009                | USA                   | 0.51 (0.56, 0.65) | 268    | 439    |
| Lipsitz, 2014             | Peru                  | 0.87 (0.85, 0.88) | 1387   | 1802   |
| Mosdo 2014                | USA                   | 1.00 (1.00, 1.00) | 1072   | 1072   |
| Milgan 2014               | USA                   | 1.00 (0.97, 1.00) | 109    | 109    |
| Outlaw 2010               | USA                   | 1.00 (0.94, 1.00) | 65     | 65     |
| Rose 2006                 | USA                   | 0.90 (0.71, 0.97) | 19     | 21     |
| Spielberg, 2005           | USA                   | 0.71 (0.66, 0.76) | 230    | 324    |
| Spielberg, 2005           | USA                   | 1.00 (0.96, 1.00) | 437    | 437    |
| Stau 2011                 | USA                   | 1.00 (1.00, 1.00) | 1723   | 1723   |
| Zulker R 2017             | USA                   | 1.00 (1.00, 1.00) | 27475  | 27475  |
| Subtotal                  |                       | 0.93 (0.85, 0.99) |        |        |
| Europe                     |                       |             |        |        |
| Arumane 2009              | United Kingdom        | 1.00 (0.98, 1.00) | 168    | 168    |
| Bailey, A, 2008           | England               | 1.00 (0.98, 1.00) | 280    | 280    |
| Belza M., 2015            | Spain                 | 1.00 (1.00, 1.00) | 3004   | 3004   |
| Champermos 2012           | France                | 1.00 (0.96, 1.00) | 532    | 532    |
| Fernandez- 2014           | Spain                 | 1.00 (1.00, 1.00) | 2559   | 2559   |
| Ferre L., 2015            | Spain                 | 1.00 (1.00, 1.00) | 3544   | 3544   |
| GIL 2014                  | United Kingdom        | 0.40 (0.30, 0.64) | 6      | 15     |
| Kakatu, 2014              | Greece                | 0.74 (0.66, 0.81) | 87     | 117    |
| Lorentz 2010              | France                | 1.00 (0.96, 1.00) | 211    | 211    |
| Markus U., 2015           | Germany               | 1.00 (1.00, 1.00) | 1413   | 1413   |
| Meulbroek 2013            | Spain                 | 1.00 (1.00, 1.00) | 14453  | 14453  |
| Qrist, T. 2014            | Denmark               | 1.00 (1.00, 1.00) | 3012   | 3012   |
| Ribas Baill 2017          | Spain                 | 0.87 (0.66, 0.88) | 3602   | 5385   |
| Robert E B 2016           | Ukraine               | 0.75 (0.72, 0.77) | 990    | 1200   |
| Szymowiz P 2017           | Ukraine               | 0.69 (0.68, 0.70) | 9699   | 13938  |
| Wood M, 2015              | England               | 1.00 (0.87, 1.00) | 25     | 25     |
| Subtotal                  |                       | 0.96 (0.88, 1.00) |        |        |
| Africa                     |                       |             |        |        |
| Atekejo S. 2015           | Nigeria               | 1.00 (1.00, 1.00) | 12425  | 12425  |
| Atekejo S. 2015           | Nigeria               | 1.00 (1.00, 1.00) | 14404  | 14404  |
| Cawi, 2017                | Tanzania              | 0.51 (0.51, 0.52) | 3985   | 3985   |
| Herce M., 2018            | Malawi and Angola     | 1.00 (1.00, 1.00) | 832    | 832    |
| Hecksdo 2014              | Nigeria               | 1.00 (0.96, 1.00) | 356    | 356    |
| Nguru-Gitu 2017           | Kenya                 | 0.19 (0.18, 0.20) | 1255   | 6602   |
| Subtotal                  |                       | 0.85 (0.30, 1.00) |        |        |
| Western Pacific            |                       |             |        |        |
| Bradshwe 2005             | Australia             | 0.84 (0.58, 0.69) | 197    | 309    |
| Des Jariel 2016           | Vietnam               | 1.00 (0.93, 1.00) | 49     | 49     |
| Kright, V. 2014           | Australia             | 1.00 (0.96, 1.00) | 182    | 182    |
| Lister 2005               | Australia             | 1.00 (0.96, 1.00) | 102    | 102    |
| Pham M. 2017              | Vietnam               | 0.90 (0.87, 0.93) | 543    | 603    |
| Yon, K. et al 2014        | China                 | 1.00 (1.00, 1.00) | 17091  | 17091  |
| Zhang 2014                | China                 | 1.00 (1.00, 1.00) | 31406  | 31406  |
| Subtotal                  |                       | 0.96 (0.96, 0.98) |        |        |

Heterogeneity between groups: p = 0.629
Overall (p^2 = 0.9986, p = 0.00).
### % new HIV positive - Male

| Study                | Population | Country               | ES (95% CI)     | Positive | New Positive |
|----------------------|------------|-----------------------|-----------------|----------|--------------|
| **Americas**         |            |                       |                 |          |              |
| Miligan 2014         | KP         | USA                   | 1.00 (0.44, 1.00) | 3        | 3            |
| Spielberg, 2005      | KP         | USA                   | 1.00 (0.80, 1.00) | 15       | 15           |
| Subtotal (I^2 = .%, p = .) |           |                       | 1.00 (0.92, 1.00) |          |              |
| **Europe**           |            |                       |                 |          |              |
| Bailey, A. 2008      | KP         | England               | 1.00 (0.70, 1.00) | 9        | 9            |
| Fernandez- 2014      | KP         | Spain                 | 1.00 (0.83, 1.00) | 19       | 19           |
| Valencia J 2018      | KP         | Spain                 | 1.00 (0.65, 1.00) | 7        | 7            |
| Subtotal (I^2 = .%, p = .) |           |                       | 1.00 (0.95, 1.00) |          |              |
| **Africa**           |            |                       |                 |          |              |
| Herce ME, 2018       | KP         | Malawi and Angola      | 0.82 (0.61, 0.93) | 22       | 18           |
| **Western Pacific**  |            |                       |                 |          |              |
| Yan, H. et 2014      | KP         | China                 | 1.00 (0.99, 1.00) | 745      | 745          |
| Heterogeneity between groups: p = 0.000 | |                       |                 |          |              |
| Overall (I^2 = 69.71%, p = 0.00); |           |                       | 1.00 (0.94, 1.00) |          |              |