**Appendix B: Search Methods**

1. **Search strategy for Prevention Research Synthesis (PRS) Database**

Five Automated Searches comprise the database

* Risk Reduction (RR), 1988 – Present [Search last updated April 2017]

1. MEDLINE (OVID)
2. EMBASE (OVID)
3. PsycINFO (OVID)
4. Sociological Abstracts (ProQuest)

* Linkage to, Retention in, and Re-engagement in HIV Care (LRC), 1996 – Present [Search last updated December 2017]
  1. MEDLINE (OVID)
  2. CINAHL (EBSCOhost)
  3. EMBASE (OVID)
  4. PsycINFO (OVID)
* Pre-Exposure Prophylaxis (PrEP), 2000 – Present [Search last updated February 2017]
  1. MEDLINE (OVID)
  2. EMBASE (OVID)
  3. PsycINFO (OVID)
  4. CINAHL (EBSCOhost)
* Medication Adherence (MA), 1996 – Present [Search last updated June 2017]
  1. MEDLINE (OVID)
  2. CINAHL (EBSCOhost)
  3. EMBASE (OVID)
  4. PsycINFO (OVID)
* Overview of Reviews Project (ORP), 1988 – Present [Search last updated March 2017]
  1. MEDLINE (OVID)
  2. Cab Global Health (OVID)
  3. CINAHL (EBSCOhost)
  4. EMBASE (OVID)
  5. PsycINFO (OVID)
  6. Sociological Abstracts (ProQuest)

Notes:

* Each search update is implemented annually for the previous two years to cover publication lag.
* The five searches as implemented in MEDLINE (OVID) are provided in this appendix. Searches tailored to the other databases are available from the corresponding author.
* The manual search for citations includes a hand search of journals with a high yield of subject specific citations, contacts in the field and reference list checks.
* Publication limits are the same for all MEDLINE searches. No language limit used.

**Risk Reduction (RR) search – MEDLINE (OVID)**

Key:

Term/ = MeSH/Index Term

$ = truncation \* = focus

ab = abstract ti = title

/ut = utilization subheading

/pc = prevention and control subheading

**HIV/AIDS/STDs MeSH**

1. \*HIV infections/pc
2. \*Acquired Immunodeficiency Syndrome/pc
3. \*Sexually Transmitted Diseases/pc
4. \*Sexually Transmitted Diseases, bacterial/
5. \*Sexually Transmitted Diseases, viral/
6. AIDS Serodiagnosis/ut
7. \*HIV Seropositivity/
8. or/1-7

**Prevention/Intervention/Evaluation/Education MeSH and Keywords**

1. Primary Prevention/
2. Preventive Health Services/
3. Health Promotion/
4. Program Evaluation/
5. Randomized Controlled Trials/
6. Evaluation Studies/
7. Contact Tracing/
8. Case management/
9. Needle-Exchange Programs/
10. Follow-Up Studies/
11. Longitudinal Studies/
12. Multicenter Studies/
13. Random Allocation/
14. control group.ti,ab
15. control trial.ti,ab
16. controlled trial.ti,ab
17. (rct or rcts).ti,ab
18. case management.ti,ab
19. contact tracing.ti,ab
20. (counseling or counselling).ti,ab
21. (detox or detoxification).ti,ab
22. (drug$ adj4 treatment$).ti,ab
23. education$.ti,ab
24. (effect or effects or effective or effectiveness).ti,ab
25. efficacy.ti,ab
26. evaluation$.ti,ab
27. impact$.ti,ab
28. intervention$.ti,ab
29. needle exchang$.ti,ab
30. network$.ti,ab
31. outreach$.ti,ab
32. partner notification.ti,ab
33. (partner$ adj4 contact$ adj4 referral$).ti,ab
34. (notif$ adj4 partner$).ti,ab
35. prevention$.ti,ab
36. program$.ti,ab
37. random$.ti,ab
38. rehab$.ti,ab
39. skill$.ti,ab
40. syringe exchang$.ti,ab
41. methadone.ti,ab
42. test$.ti,ab
43. training.ti,ab
44. trial$.ti,ab
45. or/9-52

**Behavior/Outcomes MeSH and Keywords**

1. Behavior/
2. Behavior Therapy/
3. Health Behavior/
4. Health Risk Behavior/
5. Risk Reduction Behavior/
6. Risk-Taking/
7. Contraception Behavior/
8. Coitus/
9. Sexual Abstinence/
10. Sexual Behavior/
11. Sexual Partners/
12. Safe Sex/
13. Unsafe sex/
14. Heroin Dependence/pc
15. Needle Sharing/
16. Condoms/ut
17. Condoms, female/ut
18. Contraceptive devices, male/ut
19. Contraceptive devices, female/ut
20. Substance abuse, intravenous/pc
21. Substance-related disorders/pc
22. Cocaine-related disorders/pc
23. Health services/ut
24. heroin.ti,ab
25. cocaine.ti,ab
26. opiate$.ti,ab
27. opium.ti,ab
28. paraphernalia.ti,ab
29. (treatment$ adj2 entry).ti,ab
30. (treatment$ adj2 enter$).ti,ab
31. (abstin$ or abstain$).ti,ab
32. drug$.ti,ab
33. substance.ti,ab
34. (idu or idus or ivdu or ivdus).ti,ab
35. ((behavior$ or behaviour$ or activit$ or access$ or utiliz$ or use$ or using$ or test$ or risk$ or outcome$) adj4 (reduc$ or declin$ or chang$ or effect$ or increas$ or decreas$ or impact$ or modif$ or lower$ or maintain$ or maintenance)).ti,ab
36. bleach$.ti,ab
37. clean$.ti,ab
38. condom$.ti,ab
39. contracept$.ti,ab
40. crack$.ti,ab
41. disclos$.ti,ab
42. incidence.ti,ab
43. inject$.ti,ab
44. intention$.ti,ab
45. intercourse.ti,ab
46. needle$.ti,ab
47. infect$ adj4 (new$ or rate$ or declin$ or reduc$ or prevent$ or lower$ or decreas$).ti,ab
48. partner$.ti,ab
49. seroconver$.ti,ab
50. sex$.ti,ab
51. syring$.ti,ab
52. test$.ti,ab
53. or/54-105
54. 8 and 54 and 106

**Publication limits:**

Clinical Trial, Controlled Clinical Trial, Corrected and Republished Article, Evaluation Studies, Journal Article, Meta-Analysis, Multicenter Study, Practice Guideline, Published Erratum, Randomized Controlled Trial, Retraction of Publication, Review, Review Literature, Systematic Reviews, Technical Report, Validation Studies

**Linkage to, Retention in, and Re-engagement in HIV Care (LRC) search – MEDLINE (OVID)**

Key:

$ = truncation

ab = abstract ti = title

Term/ = MeSH Index Term

MeSH Subheadings:

/co = complications /dt = drug therapy

/di = diagnosis /nu = nursing

/pc = prevention and control

/px psychology /th = therapy

/tm= transmission

**HIV/HIV Positive Persons MeSH and Keywords**

1. HIV infections/co, dt, di, nu, pc, px, th, tm
2. HIV infect$.ti,ab
3. (HIV adj4 diagnos$).ti,ab
4. HIV positiv$.ti,ab
5. (HIV adj4 care).ti,ab
6. (HIV adj4 treatment$).ti,ab
7. living with HIV.ti,ab
8. or/1-7

**Linking and Retention in Care MeSH and Keywords**

1. (access$ adj4 care).ti,ab
2. (access$ adj4 barrier$).ti,ab
3. (access$ adj4 (treatment or service$)).ti,ab
4. (barrier$ adj4 care).ti,ab
5. case management.ti,ab
6. case manager$.ti,ab
7. (decreas$ adj4 barrier$).ti,ab
8. (engag$ adj4 (care or service$)).ti,ab
9. (enroll$ adj4 care).ti,ab
10. ((enter$ or entry) adj4 care).ti,ab
11. ((enter$ or entry) adj4 service$).ti,ab
12. (improv$ adj4 access$).ti,ab
13. (improv$ adj4 retention).ti,ab
14. ((kept or keep$ or return$) adj4 appointment$).ti,ab
15. (link$ adj4 (retain$ or retent$)).ti,ab
16. (link$ adj4 care).ti,ab
17. (link$ adj4 case).ti,ab
18. (link$ adj4 treatment).ti,ab
19. (link$ adj4 service$).ti,ab
20. (outreach adj4 (care or link$ or program$)).ti,ab
21. ((provision or provid$) adj4 (care or service$)).ti,ab
22. (reduc$ adj4 barrier$).ti,ab
23. ((re engag$ or reengag$) adj4 (care or treatment or service$)).ti,ab
24. ((re enter$ or reenter$) adj4 (care or treatment or service$)).ti,ab
25. ((refer or refers or referred or referral$) adj4 (care or medical or treatment or clinic or service$)).ti,ab
26. ((retain$ or retent$) adj4 care).ti,ab
27. (seek$ adj4 (care or treatment$)).ti,ab
28. (utiliz$ adj4 (treatment or care or service$)).ti,ab
29. ((medical) adj4 (care or treatment or service$)).ti,ab
30. (gap$ adj2 care).ti,ab
31. (visit adj2 (constan$ or consist$)).ti,ab
32. (appointment$ adj2 adher$).ti,ab
33. ((follow-up or follow up) adj2 discontin$).ti,ab
34. ((miss$ or schedul$) adj2 (visit$ or appointment$)).ti,ab
35. (contin$ adj2 care).ti,ab
36. or/9-43
37. 8 and 44

**Pre-Exposure Prophylaxis (PrEP) search – MEDLINE (OVID)**

Term/ = MeSH term

ti = title ab = abstract

$ = truncation adj = adjacency

**HIV or AIDS or STD MeSH and keywords**

1. HIV infections/
2. AIDS/
3. Sexually Transmitted Diseases/
4. HIV seropositivity/
5. HIV seronegativity/
6. AIDS serodiagnosis/
7. Hepatitis C/
8. HIV.ti,ab
9. (AIDS not hearing).ti,ab
10. Hepatitis C.ti,ab
11. HCV.ti,ab
12. Sexually transmitted disease$.ti,ab
13. Sexually transmitted infection$.ti,ab
14. (STD or STDs or STI or STIs).ti,ab
15. or/1-14

**Pre Exposure Prophylaxis MeSH and Keywords**

1. Pre-Exposure Prophylaxis/
2. Chemoprevention/
3. Pre exposure prophylaxis.ti,ab
4. Preexposure prophylaxis.ti,ab
5. PrEP.ti,ab
6. (Chemoprophylaxis or Chemo prophylaxis or chemoprevention).ti,ab
7. or/16-21
8. 15 and 22

**Medication Adherence (MA) Search - MEDLINE (OVID)**

Term/ = MeSH/Index Term

$ = truncation

ab = abstract ti = title

adj2 = within 2 words

adj4 = within 4 words

**HIV/AIDS MeSH and Keywords**

1. HIV Infections/
2. AIDS/
3. HIV Seropositivity/
4. (living adj4 (hiv or aids)).ti,ab
5. HIV positiv$.ti,ab
6. HIV infected.ti,ab
7. or/1-6

**Intervention MeSH and Keywords**

1. Intervention Studies/
2. Case management/
3. Directly Observed Therapy/
4. intervention$.ti,ab
5. (therapy or therapies).ti,ab
6. (treatment or treatments).ti,ab
7. medication event monitor$.ti,ab
8. mems.ti,ab
9. modified directly observed.ti,ab
10. mdot.ti,ab
11. directly administered.ti,ab
12. daart.ti,ab
13. directly observed therapy.ti,ab
14. dot.ti,ab
15. or/8-21

**HAART MeSH and Keywords**

1. Anti-HIV agents/
2. Anti-Retroviral Agents/
3. Antiviral Agents/
4. Antiretroviral Therapy, Highly Active/
5. haart.ti,ab
6. arv.ti,ab
7. art.ti,ab
8. antiretroviral$.ti,ab
9. anti retroviral$.ti,ab
10. antiviral$.ti,ab
11. anti viral$.ti,ab
12. (medication or medications).ti,ab
13. or/23-34

**Adherence MeSH and Keywords**

1. Patient Compliance/
2. Medication Adherence/
3. adher$.ti,ab
4. nonadher$.ti,ab
5. non adher$.ti,ab
6. complian$.ti,ab
7. non complian$.ti,ab
8. noncomplian$.ti,ab
9. viral load.ti,ab
10. (cd4 adj2 (count or counts)).ti,ab
11. or/36-45

1. 7 and 22 and 35 and 46

**Overview of Reviews (ORP) Search Strategy - MEDLINE (OVID)**

Term/ = MeSH/Index Term

\* = focus MeSH term adj = adjacency search

ti = title ab = abstract

pt = publication type $ = truncation

**HIV/AIDS /STD MeSH and keywords**

1. \*HIV infections/
2. \*AIDS/
3. \*Sexually transmitted diseases/
4. \*HIV Seropositivity/
5. \*AIDS Serodiagnosis/
6. HIV infect$.ti,ab
7. HIV positiv$.ti,ab
8. HIV care.ti,ab
9. (HIV adj4 incidence).ti,ab
10. (HIV adj4 prevent$).ti,ab
11. (HIV adj4 risk$).ti,ab
12. (HIV adj4 prevalen$).ti,ab
13. (HIV adj4 new$ infect$).ti,ab
14. (HIV adj4 new$ diagnos$).ti,ab
15. (HIV adj4 transm$).ti,ab
16. Sexually transmitted disease$.ti,ab
17. Sexually transmitted infection$.ti,ab
18. (STD or STDs or STI or STIs).ti,ab
19. (living adj4 HIV).ti,ab
20. (living adj4 (AIDS not hearing)).ti,ab
21. or/1-20

**Systematic Review MeSH and keywords**

1. Review/ OR Review.pt
2. Meta Analysis/ OR Meta-Analysis.pt
3. 22 or 23
4. (MEDLINE or MEDLARS or EMBASE or PubMed or Cochrane).ab
5. (PsychINFO or PsycINFO).ab
6. (Sociofile or Sociological Abstracts).ab
7. CINAHL.ab
8. ((hand adj2 search$) or (manual$ adj2 search$)).ab
9. ((electronic or bibliographic or computer$ or online or automat$) adj3 database$).ab
10. or/25-30
11. 24 and 31
12. (meta-anal$ or meta anal$ or metaanal$).ti,ab
13. (systematic$ adj4 review$).ti,ab
14. (systematic$ adj4 overview$).ti,ab
15. (systematic$ adj4 synthes$).ti,ab
16. literature review.ti,ab
17. (literature$ adj4 overview$).ti,ab
18. (literature$ adj4 synthes$).ti,ab
19. (quantitativ$ adj4 review$).ti,ab
20. (quantitativ$ adj4 overview$).ti,ab
21. (quantitativ$ adj4 synthes$).ti,ab
22. (qualitative$ adj4 review$).ti,ab
23. (qualitative$ adj4 overview$).ti,ab
24. (qualitative$ adj4 synthes$).ti,ab
25. (methodolog$ adj4 review$).ti,ab
26. (methodolog$ adj4 overview$).ti,ab
27. (methodolog$ adj4 synthes$).ti,ab
28. (review$ adj4 article$).ti,ab
29. (review$ adj4 (study or studies)).ti,ab
30. (review$ adj4 evidence).ti,ab
31. (review$ adj4 updat$).ti,ab
32. (review$ adj4 (analy$ or anali$)).ti,ab
33. (research adj4 review$).ti,ab
34. (research adj4 overview$).ti,ab
35. (research adj4 synthes$).ti,ab
36. or/33-56
37. 32 or 57
38. 21 and 58