

Appendix I: Search Methods

A. Search strategy for Prevention Research Synthesis (PRS) Database

Four Automated Searches comprise the database

- Risk Reduction (RR) 1988 – Present
 1. MEDLINE (OVID)
 2. EMBASE (OVID)
 3. PsycINFO (OVID)
 4. Sociological Abstracts (ProQuest)

- Linkage to, Retention in, and Re-engagement to HIV Care (LRC) 1996- Present
 1. MEDLINE (OVID)
 2. CINAHL (EBSCOhost)
 3. EMBASE (OVID)
 4. PsycINFO (OVID)

- Medication Adherence (MA) 1996 - Present
 1. MEDLINE (OVID)
 2. CINAHL (EBSCOhost)
 3. EMBASE (OVID)
 4. PsycINFO (OVID)

- Overview of Reviews Project (ORP) 1988 - Present
 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 four searches as implemented in MEDLINE (OVID) are provided in this appendix and the searches translated 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.
- More information on the search methods for the Prevention Research Synthesis (PRS) database can be found here <http://www.cdc.gov/hiv/dhap/prb/prs/>

Risk Reduction (RR) Search Strategy – MEDLINE (OVID)

7. *HIV Seropositivity/

8. or/1-7

Key:

Term/ = MeSH/Index Term

\$ = truncation

* = focus

ab = abstract

ti = title

/ut = utilization subheading and control subheading

/pc = prevention

Prevention/Intervention/Evaluation/Education MeSH and Keywords

9. Primary Prevention/

10. Preventive Health Services/

11. Health Promotion/

12. Program Evaluation/

13. Randomized Controlled Trials/

14. Evaluation Studies/

15. Contact Tracing/

16. Case management/

17. Needle-Exchange Programs/

18. Intervention Studies/

19. Follow-Up Studies/

20. Longitudinal Studies/

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

21. Multicenter Studies/
22. Random Allocation/
23. control group.ti,ab
24. control trial.ti,ab
25. controlled trial.ti,ab
26. (rct or rcts).ti,ab
27. case management.ti,ab
28. contact tracing.ti,ab
29. (counseling or counselling).ti,ab
30. (detox or detoxification).ti,ab
31. (drug\$ adj4 treatment\$).ti,ab
32. education\$.ti,ab
33. (effect or effects or effective or effectiveness).ti,ab
34. efficacy.ti,ab
35. evaluation\$.ti,ab
36. impact\$.ti,ab
37. intervention\$.ti,ab
38. needle exchang\$.ti,ab
39. network\$.ti,ab
40. outreach\$.ti,ab
41. partner notification.ti,ab
42. (partner\$ adj4 contact\$ adj4 referral\$).ti,ab
43. (notif\$ adj4 partner\$).ti,ab
44. prevention\$.ti,ab
45. program\$.ti,ab

46. random\$.ti,ab
47. rehab\$.ti,ab
48. skill\$.ti,ab
49. syringe exchang\$.ti,ab
50. methadone.ti,ab
51. test\$.ti,ab
52. training.ti,ab
53. trial\$.ti,ab
54. or/9-53

Behavior/Outcomes MeSH and Keywords

55. Behavior/
56. Behavior Therapy/
57. Health Behavior/
58. Risk Reduction Behavior/
59. Risk-Taking/
60. Contraception Behavior/
61. Coitus/
62. Sexual Abstinence/
63. Sexual Behavior/
64. Sexual Partners/
65. Safe Sex/
66. Unsafe sex/
67. Heroin Dependence/pc
68. Needle Sharing/

- | | | | |
|-----|--|------|---|
| 69. | Condoms/ut | 92. | contracept\$.ti,ab |
| 70. | Condoms, female/ut | 93. | crack\$.ti,ab |
| 71. | Contraceptive devices, male/ut | 94. | disclos\$.ti,ab |
| 72. | Contraceptive devices, female/ut | 95. | incidence.ti,ab |
| 73. | Substance abuse, intravenous/pc | 96. | inject\$.ti,ab |
| 74. | Substance-related disorders/pc | 97. | intention\$.ti,ab |
| 75. | Cocaine-related disorders/pc | 98. | intercourse.ti,ab |
| 76. | Health services/ut | 99. | needle\$.ti,ab |
| 77. | heroin.ti,ab | 100. | infect\$ adj4 (new\$ or rate\$ or declin\$ or reduc\$ or prevent\$ or lower\$ or decreas\$).ti,ab |
| 78. | cocaine.ti,ab | 101. | partner\$.ti,ab |
| 79. | opiate\$.ti,ab | 102. | seroconver\$.ti,ab |
| 80. | opium.ti,ab | 103. | sex\$.ti,ab |
| 81. | paraphernalia.ti,ab | 104. | syring\$.ti,ab |
| 82. | (treatment\$ adj2 entry).ti,ab | 105. | test\$.ti,ab |
| 83. | (treatment\$ adj2 enter\$).ti,ab | 106. | or/55-105 |
| 84. | (abstin\$ or abstain\$).ti,ab | 107. | 8 and 54 and 106 |
| 85. | drug\$.ti,ab | | |
| 86. | substance.ti,ab | | |
| 87. | (idu or idus or ivdu or ivdus).ti,ab | | |
| 88. | ((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 | | |
| 89. | bleach\$.ti,ab | | |
| 90. | clean\$.ti,ab | | |
| 91. | condom\$.ti,ab | | |

No Language Limit

Year limits (1988 – Present)

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,

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

Key:

Term/ = MeSH/Index Term

\$ = truncation

ab = abstract

ti = title

Subheadings

/co = complications sh

/dt = drug therapy sh

/di = diagnosis sh

/nu = nursing sh

/pc = prevention and control sh

/px psychology sh

/th = therapy sh

/tm= transmission sh

HIV/HIV Positive Person 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

Review Literature, Systematic Reviews, Technical
Report, Validation Studies

6. (HIV adj4 treatment\$).ti,ab
7. living with HIV.ti,ab
8. or/1-7

Linking and Retention in Care MeSH and Keywords

9. (access\$ adj4 care).ti,ab
10. (access\$ adj4 barrier\$).ti,ab
11. (access\$ adj4 (treatment or service\$)).ti,ab
12. (barrier\$ adj4 care).ti,ab
13. case management.ti,ab
14. case manager\$.ti,ab
15. (decreas\$ adj4 barrier\$).ti,ab
16. (engag\$ adj4 (care or service\$)).ti,ab
17. (enroll\$ adj4 care).ti,ab
18. ((enter\$ or entry) adj4 care).ti,ab
19. ((enter\$ or entry) adj4 service\$).ti,ab
20. (improv\$ adj4 access\$).ti,ab
21. (improv\$ adj4 retention).ti,ab
22. ((kept or keep\$ or return\$) adj4
appointment\$).ti,ab
23. (link\$ adj4 (retain\$ or retent\$)).ti,ab
24. (link\$ adj4 care).ti,ab
25. (link\$ adj4 case).ti,ab
26. (link\$ adj4 treatment).ti,ab
27. (link\$ adj4 service\$).ti,ab

28. (outreach adj4 (care or link\$ or program\$)).ti,ab
29. ((provision or provid\$) adj4 (care or service\$)).ti,ab
30. (reduc\$ adj4 barrier\$).ti,ab
31. ((re engag\$ or reengag\$) adj4 (care or treatment or service\$)).ti,ab
32. ((re enter\$ or reenter\$) adj4 (care or treatment or service\$)).ti,ab
33. ((refer or refers or referred or referral\$) adj4 (care or medical or treatment or clinic or service\$)).ti,ab
34. ((retain\$ or retent\$) adj4 care).ti,ab
35. (seek\$ adj4 (care or treatment\$)).ti,ab
36. (utiliz\$ adj4 (treatment or care or service\$)).ti,ab
37. ((medical) adj4 (care or treatment or service\$)).ti,ab
38. (gap\$ adj2 care).ti,ab
39. (visit adj2 (constan\$ or consist\$)).ti,ab
40. (appointment\$ adj2 adher\$).ti,ab
41. ((follow-up or follow up) adj2 discontin\$).ti,ab
42. ((miss\$ or schedul\$) adj2 (visit\$ or appointment\$)).ti,ab
43. (\$contin\$ adj2 care).ti,ab
44. or/9-43
45. 8 and 44

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6. HIV infected.ti,ab

7. or/1-6

Intervention MeSH and Keywords

8. Intervention Studies/

9. Case management/

10. Directly Observed Therapy/

11. intervention\$.ti,ab

12. (therapy or therapies).ti,ab

13. (treatment or treatments).ti,ab

14. medication event monitor\$.ti,ab

15. mems.ti,ab

16. modified directly observed.ti,ab

17. mdot.ti,ab

18. directly administered.ti,ab

19. daart.ti,ab

20. directly observed therapy.ti,ab

21. dot.ti,ab

22. or/8-21

Medication Adherence (MA) Search Strategy - 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

HAART MeSH and Keywords

23. Anti-HIV agents/

24. Anti-Retroviral Agents/

25. Antiviral Agents/

26. Antiretroviral Therapy, Highly Active/

27. haart.ti,ab

28. arv.ti,ab

29. art.ti,ab

30. antiretroviral\$.ti,ab

31. anti retroviral\$.ti,ab

32. antiviral\$.ti,ab

33. anti viral\$.ti,ab

34. (medication or medications).ti,ab

35. or/23-34

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Adherence MeSH and Keywords

36. Patient Compliance/

37. Medication Adherence/

38. adher\$.ti,ab

39. nonadher\$.ti,ab

40. non adher\$.ti,ab

41. complian\$.ti,ab

42. non complian\$.ti,ab

43. noncomplian\$.ti,ab

44. viral load.ti,ab

45. (cd4 adj2 (count or counts)).ti,ab

46. or/36-45

47. 7 and 22 and 35 and 46

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
22. Review/ OR Review.pt

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

23. Meta Analysis/ OR Meta-Analysis.pt
24. 22 OR 23
25. (MEDLINE or MEDLARS or EMBASE or PubMed or Cochrane).ab
26. (PsychINFO or PsycINFO).ab
27. (Sociofile or Sociological Abstracts).ab
28. CINAHL.ab
29. ((hand adj2 search\$) or (manual\$ adj2 search\$)).ab
30. ((electronic or bibliographic or computer\$ or online or automat\$) adj3 database\$).ab
31. or/25-30
32. 24 and 31
33. (meta-anal\$ or meta anal\$ or metaanal\$).ti,ab
34. (systematic\$ adj4 review\$).ti,ab
35. (systematic\$ adj4 overview\$).ti,ab
36. (systematic\$ adj4 synthes\$).ti,ab
37. literature review.ti,ab
38. (literature\$ adj4 overview\$).ti,ab
39. (literature\$ adj4 synthes\$).ti,ab
40. (quantitativ\$ adj4 review\$).ti,ab
41. (quantitativ\$ adj4 overview\$).ti,ab
42. (quantitativ\$ adj4 synthes\$).ti,ab
43. (qualitative\$ adj4 review\$).ti,ab
44. (qualitative\$ adj4 overview\$).ti,ab
45. (qualitative\$ adj4 synthes\$).ti,ab
46. (methodolog\$ adj4 review\$).ti,ab
47. (methodolog\$ adj4 overview\$).ti,ab
48. (methodolog\$ adj4 synthes\$).ti,ab
49. (review\$ adj4 article\$).ti,ab
50. (review\$ adj4 (study or studies)).ti,ab
51. (review\$ adj4 evidence).ti,ab
52. (review\$ adj4 updat\$).ti,ab
53. (review\$ adj4 (analy\$ or anali\$)).ti,ab
54. (research adj4 review\$).ti,ab
55. (research adj4 overview\$).ti,ab
56. (research adj4 synthes\$).ti,ab
57. or/33-56
58. 32 or 57
59. 21 and 58

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

B. Query of the PRS Database

Last Performed: April 2017

Criteria:

1. Published years: 2007 – Present

2. Citations with the following codes:
 - a. HIVP-adher
 - Definition: Reports outcomes from an intervention for HIV positive persons trying to improve medication adherence

 - b. HIVTxDel/Dev
 - Definition: Reports outcomes from an intervention for HIV positive persons that use an adherence-related device (reminder system, app, etc.)

 - c. HIVP-LRC
 - Definition: Reports data on PLWH related to linking, retention, or re-engagement in care (can be an intervention).

3. Citations were searched in the Title, Abstract, Journal/secondary Title or Keywords for the following terms:

Cell phone* OR computer* OR ehealth OR Internet OR mhealth OR mobile phone* OR Reminder* OR reminder system* OR smartphone* OR social network* OR tablet* OR technology OR text message* OR web OR app OR application* OR text*

Note: * looks for plural of the term