

## RISK REDUCTION (RR) REVIEW METHODS

The [Prevention Research Synthesis \(PRS\) Project](#) efficacy review process for identifying HIV Risk Reduction evidence-based behavioral interventions is conducted using well-established systematic procedures for searching and reviewing the intervention research literature. The information presented below describes the RR search strategy for identifying relevant articles, RR study eligibility criteria for inclusion in the review, and RR study coding procedures for reviewing the quality of the evidence. A detailed overview of the PRS search strategy is available in the article [Developing a comprehensive search strategy for evidence based systematic reviews](#) in the open access journal *Evidence Based Library and Information Practice*.

Once included in the review, the [PRS RR efficacy criteria](#) are used to determine if an HIV risk reduction intervention is best-evidence or good-evidence.

### RR Search Strategy

Using a comprehensive and systematic search strategy, the PRS project developed a cumulative database of the HIV, AIDS, and STD prevention research literature. This cumulative database is continually updated using both automated and manual search components.

The automated search component involves the annual search of four electronic bibliographic databases (EMBASE, MEDLINE, PsycINFO, and Sociological Abstracts). The PRS project also conducted a systematic search of the AIDSLINE database prior to its discontinuation in December 2000. These searches identify articles that focus on HIV/AIDS or STD behavioral prevention.

The manual search consists of regularly reviewing journals (see below) to identify articles not yet indexed in the electronic databases. These journals are inclusive across the five PRS reviews that are currently being conducted (i.e., Linkage to, Retention in, and Re-engagement in HIV Care (LRC), Risk Reduction (RR), Medication Adherence (MA), Structural Interventions (SI), PrEP Interventions (PrEP), and the Overview of Reviews Project (ORP)). As of January 2020, the journal list totals 35 titles. Each year the PRS database is surveyed to determine which journals retrieve the most relevant citations for each review. The hand search list of journals is modified to reflect recent publishing trends, and therefore the list of journals may change on a year-to-year basis. Quarterly, team members screen all issues of the journals published within the 3 previous months to locate relevant articles. In addition, reference lists of published articles, HIV/AIDS Internet listservs, and unpublished manuscripts submitted by study authors are examined for related materials.

For each eligible intervention study, the PRS cumulative database is searched to identify all articles reporting descriptive or outcome data from the same intervention. All articles describing the same intervention study are considered linked reports. Additional details about these search strategies and procedures can be obtained by [contacting PRS](#).

## RR Study Eligibility

Once articles are identified through the systematic search, they are screened to determine eligibility for the PRS individual- and group-, or community-level intervention efficacy review. To be included in the review, studies **must meet each** of the following inclusion criteria:

- Focus on an HIV, AIDS, or STD behavioral intervention
- Outcome evaluation with a comparison arm
- Published or accepted for publication in a peer-reviewed journal
- Conducted in the United States or a U.S. territory
- Focus on a priority target population (determined by DHAP) current priority populations: people living with HIV (PLWH), men who have sex with men (MSM), transgender people, and people who use drugs (PWUD)
- Report any of the following relevant outcome data:
  - Behaviors directly impacting HIV risk\*:
    - Sex risk behaviors (e.g., abstinence, mutual monogamy, number of sex partners, negotiation of safer sex, condom use, refusal to have unsafe sex)
    - Drug injection behaviors (e.g., frequency of injection drug use, needle sharing)
  - Biologic measures of HIV or other STD infections (e.g., prevalence or incidence measures of hepatitis, HIV, or other STDs)

Interventions that focus on the following types of prevention are **not** currently included in the PRS RR efficacy review:

- Substance abuse treatment only
- Needle exchange
- HIV counseling and testing only
- Partner counseling and referral services
- Policy changes
- School-based curricula

## RR Study Coding Procedures

Pairs of trained content analysts independently code each eligible study with PRS RR efficacy criteria for each eligible study. This coding includes all linked articles reporting information on the same intervention study. All discrepancies between coder pairs are reconciled. If the study does not report critical information needed to determine intervention efficacy, the PRS team contacts the principal investigator of the study to obtain the missing information or to seek additional clarification. The final efficacy determination for each study is reached by PRS team consensus.

**\*Note:** There are multiple options to reduce the risk of acquiring or transmitting HIV. These options include using medicines to treat HIV ([Treatment as Prevention or TasP](#)), using medicines to prevent acquisition of HIV ([pre-exposure prophylaxis or PrEP](#)), and [reducing risk behaviors](#). The Division of HIV/AIDS Prevention (DHAP) stresses that some options are more effective than others and combining prevention strategies may be even more effective. See [here](#) for more information on the effectiveness of different strategies at preventing HIV acquisition or transmission. Whereas this systematic review focuses on reducing sex and drug risk behaviors, PRS conducts other systematic reviews focusing on [linkage to, retention in, and re-engagement in HIV care](#), [HIV medication adherence](#), and [PrEP](#).

## PRS Manual Search Journal List (n = 35)

AIDS  
AIDS and Behavior  
AIDS Care  
AIDS Education and Prevention  
AIDS Patient Care and STDs  
AIDS Reviews  
American Journal of Public Health  
BMC Infectious Diseases  
BMC Public Health  
BMJ Open  
Clinical Infectious Diseases  
Cochrane Database of Systematic Reviews  
Current HIV/AIDS Reports  
Current Opinion in HIV and AIDS  
Health Psychology  
HIV Medicine  
International Journal of STD & AIDS  
JAIDS J of Acquired Immune Deficiency Syndromes  
JBI Database of SR & Implementation Reports  
Journal of Adolescent Health  
Journal of HIV/AIDS & Social Services  
Journal of Substance Abuse Treatment  
Journal of the Association of Nurses in AIDS Care  
Journal of the International AIDS Society  
Lancet HIV  
PLoS Medicine  
PLoS ONE  
Prevention Science  
Public Health Reports  
Sexual Health  
Sexually Transmitted Diseases  
Sexually Transmitted Infections  
Social Science & Medicine  
Systematic Reviews  
Tropical Medicine & International Health

