Supplementary Information 2. Inclusion and exclusion criteria

Inclusion criteria:

- ➢ Date of publication: up to 10 years ago
- ➢ Language: English
- ➢ Study design: ALL
- ➢ Population: primarily focused on key populations (e.g., young individuals, migrants, sex workers, MSM, transgender people, gender diverse people, bisexual and homosexual men, swingers, PWID, PLWHIV)
- ➢ Intervention: home-based comprehensive sexual health care with (online) self-sampling for HIV and/or STI testing and AT LEAST one of these care elements:
  - o Results provision
  - o Treatment
  - o Partner notification
  - o Health promotion/prevention
  - o Retesting/repeat testing
- ➢ Studies should report AT LEAST one of these **outcomes** and/or **constructs*** (Following PRISM outcomes)

Exclusion criteria:

- ➢ Non-human studies
- ➢ Validation studies with only test related results (sensitivity, specificity)
- ➢ Intervention has <u>no HIV testing component</u>
  - o Unless key population is HIV positive

*Table of constructs related to PRISM outcomes: reach, effectiveness, adoption, implementation, and maintenance.

PRISM	Answer to…	Signal words
Reach	"How do I reach the targeted population?"	Reach Target Number of … Proportion of … Represent
Effectiveness	"How do I know my intervention is effective?"	Efficacy Impact Effects /Affect Effective(ness) Influence Outcome Factors Predictors
Adoption	"How do I develop organizational support to deliver my intervention?"	Adoption Setting Deliver Support Barriers Facilitators

Implementation	"How do I ensure the intervention is delivered properly?"	Implementation Fidelity Protocols
Maintenance	"How do I incorporate the intervention so that it is delivered over the long term?"	Maintenance Policy Incorporation Long term Follow-up