

Supplementary Information 1. Initial search strategy and search strings

General search strategy

Concept: HIV

Keywords: HIV, human immunodeficiency virus

MeSH: "HIV"[Mesh]

Search string: (HIV OR human immunodeficiency virus OR "HIV" [Mesh])

Concept: STI

Keywords: sexually transmitted infection*, sexually transmitted disease, STI, STD, Gonorrhoeae, Gonorrhea, Chlamydia, Syphilis, Hepatitis B

MeSH: "Sexually Transmitted Diseases"[Mesh], "Chlamydia"[Mesh], "Gonorrhea"[Mesh], "Pre-Exposure Prophylaxis" [Mesh], "Syphilis" [Mesh], "Hepatitis B" [Mesh]

Search string: ("sexually transmitted infection*" OR gonorrhoea OR "Sexually Transmitted Diseases" [Mesh] OR "Chlamydia" [Mesh] OR "Gonorrhea" [Mesh] OR "Pre-Exposure Prophylaxis" [Mesh] OR "Syphilis" [Mesh] OR "Hepatitis B" [Mesh])

Concept: Test

Keywords: test*, screen, diagnos*

MeSH: "HIV Testing" [Mesh], "Diagnosis" [Mesh]

Search string: (test* OR screen OR diagnos* OR "HIV testing" [Mesh] OR "Diagnosis" [Mesh])

Concept: Method

Keywords: self-collect*, self-sampl*, self-obtain*, "specimen collect*", self-administ*, self-manage*, self-screen*, self-examin*

MeSH:-

Search string: (self-collect* OR self-sampl* OR self-obtain* OR "specimen collect*" OR self-administ* OR self-manage* OR self-screen* OR self-examin*)

Concept: Location

Keywords: internet, remote, digital, home, online, eHealth, mHealth, telehealth

MeSH: "Telemedicine" [Mesh], "Internet-Based Intervention" [Mesh], "Delivery of Health care" [Mesh]

Search string: (internet OR remote OR digital OR home* OR online OR "Telemedicine" [Mesh] OR "Internet-Based Intervention" [Mesh] OR "Delivery of Health Care" [Mesh] OR eHealth OR mHealth or telehealth)

Complete search strings

PubMed → 546 results

("sexually transmitted infection*" OR STI OR STD OR gonorrhoea OR "Sexually Transmitted Diseases" [Mesh] OR "Chlamydia" [Mesh] OR "Gonorrhea" [Mesh] OR "Pre-Exposure Prophylaxis" [Mesh] OR "Syphilis" [Mesh] OR "Hepatitis B" [Mesh] OR HIV OR human immunodeficiency virus OR "HIV" [Mesh])

AND

(HIV OR human immunodeficiency virus OR "HIV" [Mesh])

AND

(test* OR screen OR diagnos* OR "HIV testing" [Mesh] OR "Diagnosis" [Mesh])

AND

(self-collect* OR self-sampl* OR self-obtain* OR "specimen collect*" OR self-administ* OR self-manage* OR self-screen* OR self-examin*)

AND

(internet OR remote OR digital OR home* OR online OR "Telemedicine"[Mesh] OR "Internet-Based Intervention" [Mesh] OR "Delivery of Health Care" [Mesh] OR ehealth OR mhealth or telehealth)

AND (y_10[Filter])

Ovid search tool: Embase, MEDLINE, Cochrane Register of Controlled Trials → 375 results

Filter: "Deduplicate; limit 2 to yr=2012-current"

(sexually transmitted infection* or STI or gonorrhoea or sexually transmitted diseas* or STD or chlamydia or gonorrhea or PrEP or syphilis or hepatitis* or HIV or human immunodeficiency virus) and (HIV or human immunodeficiency virus) and (test* or screen or diagnos*) and (self-collect* OR self-sampl* or self-obtain* or specimen collect or self-administ* or self-manag* or self-screen or self-examin*) and (internet* or remote or digital or home* or online* or Telemedicine or Internet-Based Intervention or Delivery of Health Care or eHealth or mHealth or telehealth)

PsycInfo → 76 results

Filter: "Publication Year: 2012-2022"

(sexually transmitted infection* or STI or gonorrhoea or sexually transmitted diseas* or STD or chlamydia or gonorrhea or PrEP or syphilis or hepatitis* or HIV or human immunodeficiency virus) and (HIV or human immunodeficiency virus) and (test* or screen or diagnos*) and (self-collect* OR self-sampl* or self-obtain* or specimen collect or self-administ* or self-manag* or self-screen or self-examin*) and (internet* or remote or digital or home* or online* or Telemedicine or telehealth or Internet-Based Intervention or Delivery of Health Care or eHealth or mHealth or telehealth)