

## Supplementary File 3 – Full search strategy and list of relevant reviews

### A Database and trial registry search

Search terms used to identify studies for the systematic review “Sexual health interventions delivered to participants by mobile technology: A systematic review of randomised control trials” for the following electronic databases:

- a) Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Versions(R)
- b) Embase Classic+Embase (OvidSP)
- c) PsycINFO (OvidSP)
- d) Global Health (OvidSP)
- e) Cochrane Central Register of Controlled Trials (CENTRAL)
- f) ClinicalTrials.gov
- g) WHO ICTRP

Note - RCT search filter adapted from:

Strings attached: CADTH database search filters [Internet]. Ottawa: CADTH; 2016. [cited 2020 09 28]. Available from: <https://www.cadth.ca/resources/finding-evidence/strings-attached-cadths-database-search-filters#rand>

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#### **a) Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Versions(R)**

1. sexually transmitted infection\*.mp.
2. sexually transmitted disease\*.mp.
3. sexually transmissible infection\*.mp.
4. sexually transmissible disease\*.mp.
5. sexually transmitted infectious disease\*.mp.
6. sexually transmissible infectious disease\*.mp.
7. sexually transmitted disorder\*.mp.
8. sexually transmissible disorder\*.mp.
9. (STI or STIs or STD\*).mp.
10. venereal disease\*.mp.
11. venereal infection\*.mp.
12. venereal disorder\*.mp.
13. genital infection\*.mp.
14. genital disorder\*.mp.
15. or/1-14
16. genital herpes.mp.
17. herpes genitalis.mp.
18. herpes simplex virus type 2.mp.
19. HSV-2.mp.
20. chancroid\*.mp.
21. haemophilus ducreyi.mp.
22. gonorrh\*.mp.
23. gonococc\*.mp.

24. chlamydia infection\*.mp.
25. chlamydia trachomatis.mp.
26. mycoplasma genitali\*.mp.
27. lymphogranuloma venereum.mp.
28. granuloma inguinale.mp.
29. klebsiella granulomatis.mp.
30. donovanosis.mp.
31. donovania.mp.
32. calymmatobacterium.mp.
33. trichomon\*.mp.
34. syphilis.mp.
35. chancre\*.mp.
36. treponema pallidum.mp.
37. condyloma\* lat\*.mp.
38. genital ulcer\*.mp.
39. anogenital ulcer\*.mp.
40. vaginal ulcer\*.mp.
41. penile ulcer\*.mp.
42. vaginosis.mp.
43. urethritis.mp.
44. or/16-43
45. exp Sexually Transmitted Diseases/
46. 44 or 45
47. human immunodeficiency virus.mp.
48. human immunodeficiency virus.mp.
49. acquired immunodeficiency syndrome.mp.
50. acquired immunodeficiency syndrome.mp.
51. HIV-1\*.mp.
52. HIV-2\*.mp.
53. HIV.mp.
54. HIV1.mp.
55. HIV2.mp.
56. AIDS.mp.
57. or/47-56
58. exp HIV/
59. acquired immunodeficiency syndrome/ or hiv seropositivity/
60. 58 or 59
61. 57 or 60
62. 15 or 46 or 61
63. exp Telemedicine/
64. exp Public Health Informatics/
65. mHealth.mp.
66. m-health.mp.
67. mobile health.mp.
68. mobile technolog\*.mp.
69. (digital health or digital medicine).mp.
70. (digital intervention\* or electronic intervention\*).mp.
71. eHealth.mp.
72. e-health.mp.
73. electronic health.mp.
74. (information and communication technolog\*).mp.

75. health information technolog\*.mp.
76. (telehealth or tele-health).mp.
77. (telemedicine or tele-medicine).mp.
78. informatic\*.mp.
79. or/63-78
80. exp Cell Phone/
81. exp Microcomputers/
82. exp Minicomputers/
83. Computers, Handheld/
84. Smartphone/
85. exp MP3-Player/
86. mobile telephone\*.mp.
87. mobile phone\*.mp.
88. cellphone\*.mp.
89. cell\* phone\*.mp.
90. (smart phone\* or feature phone\*).mp.
91. smartphone\*.mp.
92. iPhone\*.mp.
93. i-Phone\*.mp.
94. iPad\*.mp.
95. i-Pad\*.mp.
96. iPod\*.mp.
97. i-Pod\*.mp.
98. mobile device\*.mp.
99. smart device\*.mp.
100. wearable device\*.mp.
101. tablet device\*.mp.
102. tablet computer\*.mp.
103. android.mp.
104. hand-held computer\*.mp.
105. handheld computer.mp.
106. hand-held device\*.mp.
107. handheld device.mp.
108. laptop\*.mp.
109. personal digital assistant\*.mp.
110. PDA.mp.
111. blackberry.mp.
112. samsung.mp.
113. nokia.mp.
114. MP3-player.mp.
115. MP3 player.mp.
116. or/80-115
117. Internet/
118. Internet Access/
119. "Cell Phone Use"/
120. exp Social Media/
121. exp Telecommunications/
122. Videoconferencing/
123. exp Wireless Technology/
124. exp Multimedia/
125. exp Hypermedia/

126. exp Computer-Assisted Instruction/
127. Blogging/
128. exp Social Networking/
129. Online Social Networking/
130. exp Text Messaging/
131. exp Webcasts/
132. Webcasts as Topic/
133. exp Interactive Tutorial/
134. exp Video Games/
135. exp Virtual Reality/
136. exp user-computer interface/
137. Reminder Systems/
138. Electronic Mail/
139. Mobile Applications/
140. mobile app\*.mp.
141. internet.mp.
142. online.mp.
143. world wide web.mp.
144. phone-based.mp.
145. telephone-based.mp.
146. computer-based.mp.
147. computer-assisted.mp.
148. voice-call\*.mp.
149. interactive voice response\*.mp.
150. (text messag\* or texting).mp.
151. short message\*.mp.
152. multimedia message\*.mp.
153. (voice message\* or video message\*).mp.
154. instant message\*.mp.
155. electronic message\*.mp.
156. electronic mail\*.mp.
157. e-mail.mp.
158. email.mp.
159. (webmail\* or web-mail\*).mp.
160. ((mobile or phone or telephone) adj5 (SMS or MMS or VoIP or USSD or IVR)).mp.
161. callback\*.mp.
162. text reminder\*.mp.
163. reminder system\*.mp.
164. ((digital or online or web) adj1 (forum\* or platform\*)).mp.
165. ((chat adj1 (room\* or platform\* or forum\* or feature\*)) or ((online or live or web) adj1 chat)).mp.
166. virtual simulation\*.mp.
167. virtual realit\*.mp.
168. (video gam\* or computer gam\*).mp.
169. digital media.mp.
170. social media.mp.
171. social network\*.mp.
172. (podcast\* or pod-cast\*).mp.
173. (webcast\* or web-cast\*).mp.
174. (videoconferenc\* or video-conferenc\*).mp.
175. Facebook.mp.

176. Twitter.mp.
177. Instagram.mp.
178. Whatsapp.mp.
179. (Youtube or You-tube or U-tube).mp.
180. Skype.mp.
181. Baidu.mp.
182. (Tinder or Grindr).mp.
183. (Google hangout\* or Viber or Snapchat).mp.
184. communication software\*.mp.
185. (weblog\* or vlog\* or blog or blogger or blogging).mp.
186. or/117-185
187. 79 or 116 or 186
188. (Randomized Controlled Trial or Controlled Clinical Trial or Pragmatic Clinical Trial or Equivalence Trial or Clinical Trial, Phase III).pt.
189. Randomized Controlled Trial/
190. exp Randomized Controlled Trials as Topic/
191. Controlled Clinical Trial/
192. exp Controlled Clinical Trials as Topic/
193. Randomization/
194. Random Allocation/
195. Double-Blind Method/
196. Double-Blind Studies/
197. Single-Blind Method/
198. Single-Blind Studies/
199. Placebos/
200. Control Groups/
201. Control Group/
202. (random\* or sham or placebo\*).ti,ab,hw,kf,kw.
203. ((singl\* or doubl\*) adj (blind\* or dumm\* or mask\*)).ti,ab,hw,kf,kw.
204. ((tripl\* or trebl\*) adj (blind\* or dumm\* or mask\*)).ti,ab,hw,kf,kw.
205. (control\* adj3 (study or studies or trial\* or group\*)).ti,ab,kf,kw.
206. (Nonrandom\* or non random\* or non-random\* or quasi-random\* or quasirandom\*).ti,ab,hw,kf,kw.
207. allocated.ti,ab,hw.
208. ((open label or open-label) adj5 (study or studies or trial\*)).ti,ab,hw,kf,kw.
209. ((equivalence or superiority or non-inferiority or noninferiority) adj3 (study or studies or trial\*)).ti,ab,hw,kf,kw.
210. (pragmatic study or pragmatic studies).ti,ab,hw,kf,kw.
211. ((pragmatic or practical) adj3 trial\*).ti,ab,hw,kf,kw.
212. ((quasiexperimental or quasi-experimental) adj3 (study or studies or trial\*)).ti,ab,hw,kf,kw.
213. (phase adj3 (III or "3")) adj3 (study or studies or trial\*).ti,hw,kf,kw.
214. or/188-213
215. 62 and 187 and 214
216. limit 215 to yr="2010-current"

## **b) Embase Classic+Embase (OvidSP)**

1. exp sexually transmitted disease/
2. exp Human immunodeficiency virus/
3. exp acquired immune deficiency syndrome/
4. exp Human immunodeficiency virus infection/
5. or/1-4
6. sexually transmitted infection\*.mp.
7. sexually transmitted disease\*.mp.
8. sexually transmissible infection\*.mp.
9. sexually transmissible disease\*.mp.
10. sexually transmitted infectious disease\*.mp.
11. sexually transmissible infectious disease\*.mp.
12. sexually transmitted disorder\*.mp.
13. sexually transmissible disorder\*.mp.
14. (STI or STIs or STD\*).mp.
15. venereal disease\*.mp.
16. venereal infection\*.mp.
17. venereal disorder\*.mp.
18. genital infection\*.mp.
19. genital disorder\*.mp.
20. genital herpes.mp.
21. herpes genitalis.mp.
22. herpes simplex virus type 2.mp.
23. HSV-2.mp.
24. chancroid\*.mp.
25. haemophilus ducreyi.mp.
26. gonorrh\*.mp.
27. gonococc\*.mp.
28. chlamydia infection\*.mp.
29. chlamydia trachomatis.mp.
30. mycoplasma genitali\*.mp.
31. lymphogranuloma venereum.mp.
32. granuloma inguinale.mp.
33. klebsiella granulomatis.mp.
34. donovanosis.mp.
35. donovania.mp.
36. calymmatobacterium.mp.
37. trichomon\*.mp.
38. syphilis.mp.
39. chancre\*.mp.
40. treponema pallidum.mp.
41. condyloma\* lat\*.mp.
42. genital ulcer\*.mp.
43. anogenital ulcer\*.mp.
44. vaginal ulcer\*.mp.
45. penile ulcer\*.mp.
46. vaginosis.mp.
47. urethritis.mp.
48. exp Sexually Transmitted Diseases/
49. human immunodeficiency virus.mp.

50. human immun#-deficiency virus.mp.
51. acquired immun#deficiency syndrome.mp.
52. acquired immun#-deficiency syndrome.mp.
53. HIV-1\*.mp.
54. HIV-2\*.mp.
55. HIV.mp.
56. HIV1.mp.
57. HIV2.mp.
58. AIDS.mp.
59. or/6-58
60. 5 or 59
61. exp telemedicine/
62. exp mobile phone/
63. exp microcomputer/
64. exp minicomputer/
65. exp personal digital assistant/
66. smartphone/
67. MP3 player/
68. exp Internet/
69. internet access/
70. "cell phone use"/
71. exp social media/
72. exp telecommunication/
73. videoconferencing/
74. exp wireless communication/
75. exp multimedia/
76. exp hypermedia/
77. blogging/
78. exp social network/ or exp online social network/
79. exp text messaging/
80. exp webcast/
81. video game/
82. virtual reality/
83. computer interface/
84. reminder system/
85. e-mail/
86. mobile application/
87. mHealth.mp.
88. m-health.mp.
89. mobile health.mp.
90. mobile technolog\*.mp.
91. (digital health or digital medicine).mp.
92. (digital intervention\* or electronic intervention\*).mp.
93. eHealth.mp.
94. e-health.mp.
95. electronic health.mp.
96. (information and communication technolog\*).mp.
97. health information technolog\*.mp.
98. (telehealth or tele-health).mp.
99. (telemedicine or tele-medicine).mp.
100. mobile telephone\*.mp.

101. mobile phone\*.mp.
102. cellphone\*.mp.
103. cell\* phone\*.mp.
104. (smart phone\* or feature phone\*).mp.
105. smartphone\*.mp.
106. iPhone\*.mp.
107. i-Phone\*.mp.
108. iPad\*.mp.
109. i-Pad\*.mp.
110. iPod\*.mp.
111. i-Pod\*.mp.
112. mobile device\*.mp.
113. smart device\*.mp.
114. wearable device\*.mp.
115. tablet device\*.mp.
116. tablet computer\*.mp.
117. android.mp.
118. hand-held computer\*.mp.
119. handheld computer.mp.
120. hand-held device\*.mp.
121. handheld device.mp.
122. laptop\*.mp.
123. personal digital assistant\*.mp.
124. PDA.mp.
125. blackberry.mp.
126. samsung.mp.
127. nokia.mp.
128. MP3-player.mp.
129. MP3 player.mp.
130. mobile app\*.mp.
131. internet.mp.
132. online.mp.
133. world wide web.mp.
134. phone-based.mp.
135. telephone-based.mp.
136. computer-based.mp.
137. computer-assisted.mp.
138. voice-call\*.mp.
139. interactive voice response\*.mp.
140. (text message\* or texting).mp.
141. short message\*.mp.
142. multimedia message\*.mp.
143. (voice message\* or video message\*).mp.
144. instant message\*.mp.
145. electronic message\*.mp.
146. electronic mail\*.mp.
147. e-mail.mp.
148. email.mp.
149. (webmail\* or web-mail\*).mp.
150. ((mobile or phone or telephone) adj5 (SMS or MMS or VoIP or USSD or IVR)).mp.
151. callback\*.mp.



152. text reminder\*.mp.
153. reminder system\*.mp.
154. ((digital or online or web) adj1 (forum\* or platform\*)).mp.
155. ((chat adj1 (room\* or platform\* or forum\* or feature\*)) or ((online or live or web) adj1 chat)).mp.
156. virtual simulation\*.mp.
157. virtual realit\*.mp.
158. (video gam\* or computer gam\*).mp.
159. digital media.mp.
160. social media.mp.
161. social network\*.mp.
162. (podcast\* or pod-cast\*).mp.
163. (webcast\* or web-cast\*).mp.
164. (videoconferenc\* or video-conferenc\*).mp.
165. Facebook.mp.
166. Twitter.mp.
167. Instagram.mp.
168. Whatsapp.mp.
169. (Youtube or You-tube or U-tube).mp.
170. Skype.mp.
171. Baidu.mp.
172. (Tinder or Grindr).mp.
173. (Google hangout\* or Viber or Snapchat).mp.
174. communication software\*.mp.
175. (weblog\* or vlog\* or blog or blogger or blogging).mp.
176. or/61-175
177. randomized controlled trial/
178. exp "randomized controlled trial (topic)"/
179. controlled clinical trial/
180. exp "controlled clinical trial (topic)"/
181. exp randomization/
182. random allocation/
183. double blind procedure/
184. single blind procedure/
185. placebo/
186. control group/
187. (random\* or sham or placebo\*).mp.
188. ((singl\* or doubl\*) adj (blind\* or dumm\* or mask\*)).mp.
189. ((tripl\* or trebl\*) adj (blind\* or dumm\* or mask\*)).mp.
190. (control\* adj3 (study or studies or trial\* or group\*)).mp.
191. (Nonrandom\* or non random\* or non-random\* or quasi-random\* or quasirandom\*).mp.
192. allocated.ti,ab,hw.
193. ((open label or open-label) adj5 (study or studies or trial\*)).mp.
194. ((equivalence or superiority or non-inferiority or noninferiority) adj3 (study or studies or trial\*)).mp.
195. (pragmatic study or pragmatic studies).mp.
196. ((pragmatic or practical) adj3 trial\*).mp.
197. (phase adj3 (III or "3") adj3 (study or studies or trial\*)).mp.
198. or/177-197
199. 60 and 176 and 198
200. limit 199 to yr="2010-current"

### c) PsycINFO (OvidSP)

1. exp sexually transmitted diseases/
2. exp HIV/
3. aids/
4. or/1-3
5. sexually transmitted infection\*.mp.
6. sexually transmitted disease\*.mp.
7. sexually transmissible infection\*.mp.
8. sexually transmissible disease\*.mp.
9. sexually transmitted infectious disease\*.mp.
10. sexually transmissible infectious disease\*.mp.
11. sexually transmitted disorder\*.mp.
12. sexually transmissible disorder\*.mp.
13. (STI or STIs or STD\*).mp.
14. venereal disease\*.mp.
15. venereal infection\*.mp.
16. venereal disorder\*.mp.
17. genital infection\*.mp.
18. genital disorder\*.mp.
19. genital herpes.mp.
20. herpes genitalis.mp.
21. herpes simplex virus type 2.mp.
22. HSV-2.mp.
23. chancroid\*.mp.
24. haemophilus ducreyi.mp.
25. gonorrh\*.mp.
26. gonococc\*.mp.
27. chlamydia infection\*.mp.
28. chlamydia trachomatis.mp.
29. mycoplasma genitali\*.mp.
30. lymphogranuloma venereum.mp.
31. granuloma inguinale.mp.
32. klebsiella granulomatis.mp.
33. donovanosis.mp.
34. donovania.mp.
35. calymmatobacterium.mp.
36. trichomon\*.mp.
37. syphilis.mp.
38. chancre\*.mp.
39. treponema pallidum.mp.
40. condyloma\* lat\*.mp.
41. genital ulcer\*.mp.
42. anogenital ulcer\*.mp.
43. vaginal ulcer\*.mp.
44. penile ulcer\*.mp.
45. vaginosis.mp.
46. urethritis.mp.
47. exp Sexually Transmitted Diseases/
48. human immunodeficiency virus.mp.
49. human immunodeficiency virus.mp.

50. acquired immunodeficiency syndrome.mp.
51. acquired immunodeficiency syndrome.mp.
52. HIV-1\*.mp.
53. HIV-2\*.mp.
54. HIV.mp.
55. HIV1.mp.
56. HIV2.mp.
57. AIDS.mp.
58. or/5-57
59. 4 or 58
60. exp Telemedicine/
61. exp mobile phones/
62. exp Mobile Devices/
63. microcomputers/
64. mobile phones/ or smartphones/ or mobile applications/ or mobile assessment/ or sexting/ or "smartphone use"/ or text messaging/
65. "information and communication technology"/ or digital technology/ or health information technology/ or wireless technologies/
66. exp electronic communication/
67. communications media/ or exp digital media/ or exp multimedia/ or exp social media/ or exp telecommunications media/ or exp computer mediated communication/
68. exp internet/
69. hypermedia/
70. exp computer assisted instruction/
71. text messaging/
72. computer games/ or avatars/ or computational reinforcement learning/ or computer simulation/ or digital game-based learning/ or digital gaming/
73. exp virtual reality/
74. exp electronic communication/
75. internet usage/ or online community/ or online social networks/ or online therapy/
76. or/60-75
77. mHealth.mp.
78. m-health.mp.
79. mobile health.mp.
80. mobile technolog\*.mp.
81. (digital health or digital medicine).mp.
82. digital intervention\*.mp.
83. eHealth.mp.
84. e-health.mp.
85. electronic health.mp.
86. (information and communication technolog\*).mp.
87. health information technolog\*.mp.
88. electronic intervention\*.mp.
89. (telehealth or tele-health).mp.
90. (telemedicine or tele-medicine).mp.
91. informatic\*.mp.
92. mobile telephone\*.mp.
93. mobile phone\*.mp.
94. cellphone\*.mp.
95. cell\* phone\*.mp.
96. (smart phone\* or feature phone\*).mp.

97. smartphone\*.mp.
98. iPhone\*.mp.
99. i-Phone\*.mp.
100. iPad\*.mp.
101. i-Pad\*.mp.
102. iPod\*.mp.
103. i-Pod\*.mp.
104. mobile device\*.mp.
105. smart device\*.mp.
106. wearable device\*.mp.
107. tablet device\*.mp.
108. tablet computer\*.mp.
109. android.mp.
110. hand-held computer\*.mp.
111. handheld computer.mp.
112. hand-held device\*.mp.
113. handheld device.mp.
114. laptop\*.mp.
115. personal digital assistant\*.mp.
116. PDA.mp.
117. blackberry.mp.
118. samsung.mp.
119. nokia.mp.
120. MP3-player.mp.
121. MP3 player.mp.
122. mobile app\*.mp.
123. internet.mp.
124. online.mp.
125. world wide web.mp.
126. phone-based.mp.
127. telephone-based.mp.
128. computer-based.mp.
129. computer-assisted.mp.
130. voice-call\*.mp.
131. interactive voice response\*.mp.
132. (text messag\* or texting).mp.
133. short message\*.mp.
134. multimedia message\*.mp.
135. (voice message\* or video message\*).mp.
136. instant message\*.mp.
137. electronic message\*.mp.
138. electronic mail\*.mp.
139. e-mail.mp.
140. email.mp.
141. (webmail\* or web-mail\*).mp.
142. ((mobile or phone or telephone) adj5 (SMS or MMS or VoIP or USSD or IVR)).mp.
143. callback\*.mp.
144. text reminder\*.mp.
145. reminder system\*.mp.
146. ((digital or online or web) adj1 (forum\* or platform\*)).mp.

147. ((chat adj1 (room\* or platform\* or forum\* or feature\*)) or ((online or live or web) adj1 chat)).mp.
148. virtual simulation\*.mp.
149. virtual realit\*.mp.
150. (video gam\* or computer gam\*).mp.
151. digital media.mp.
152. social media.mp.
153. social network\*.mp.
154. (podcast\* or pod-cast\*).mp.
155. (webcast\* or web-cast\*).mp.
156. (videoconferenc\* or video-conferenc\*).mp.
157. Facebook.mp.
158. Twitter.mp.
159. Instagram.mp.
160. Whatsapp.mp.
161. (Youtube or You-tube or U-tube).mp.
162. Skype.mp.
163. Baidu.mp.
164. (Tinder or Grindr).mp.
165. (Google hangout\* or Viber or Snapchat).mp.
166. communication software\*.mp.
167. (weblog\* or vlog\* or blog or blogger or blogging).mp.
168. or/77-167
169. 76 or 168
170. 59 and 169
171. exp randomized controlled trials/
172. randomized clinical trials/
173. placebo/
174. experiment controls/
175. (random\* or sham or placebo\*).ti,ab,hw.
176. (random\* or sham or placebo\*).mp.
177. ((singl\* or doubl\*) adj (blind\* or dumm\* or mask\*)).mp.
178. ((tripl\* or trebl\*) adj (blind\* or dumm\* or mask\*)).mp.
179. (control\* adj3 (study or studies or trial\* or group\*)).mp.
180. (Nonrandom\* or non random\* or non-random\* or quasi-random\* or quasirandom\*).mp.
181. allocated.ti,ab,hw.
182. ((open label or open-label) adj5 (study or studies or trial\*)).mp.
183. ((equivalence or superiority or non-inferiority or noninferiority) adj3 (study or studies or trial\*)).mp.
184. (pragmatic study or pragmatic studies).mp.
185. ((pragmatic or practical) adj3 trial\*).mp.
186. ((quasiexperimental or quasi-experimental) adj3 (study or studies or trial\*)).mp.
187. (phase adj3 (III or "3")) adj3 (study or studies or trial\*)).mp.
188. or/171-187
189. 170 and 188
190. limit 189 to yr="2010-current"

#### **d) Global Health (OvidSP)**

1. exp sexually transmitted diseases/
2. exp human immunodeficiency viruses/
3. acquired immune deficiency syndrome/
4. hiv infections/
5. or/1-4
6. sexually transmitted infection\*.mp.
7. sexually transmitted disease\*.mp.
8. sexually transmissible infection\*.mp.
9. sexually transmissible disease\*.mp.
10. sexually transmitted infectious disease\*.mp.
11. sexually transmissible infectious disease\*.mp.
12. sexually transmitted disorder\*.mp.
13. sexually transmissible disorder\*.mp.
14. (STI or STIs or STD\*).mp.
15. venereal disease\*.mp.
16. venereal infection\*.mp.
17. venereal disorder\*.mp.
18. genital infection\*.mp.
19. genital disorder\*.mp.
20. genital herpes.mp.
21. herpes genitalis.mp.
22. herpes simplex virus type 2.mp.
23. HSV-2.mp.
24. chancroid\*.mp.
25. haemophilus ducreyi.mp.
26. gonorrh\*.mp.
27. gonococc\*.mp.
28. chlamydia infection\*.mp.
29. chlamydia trachomatis.mp.
30. mycoplasma genitali\*.mp.
31. lymphogranuloma venereum.mp.
32. granuloma inguinale.mp.
33. klebsiella granulomatis.mp.
34. donovanosis.mp.
35. donovania.mp.
36. calymmatobacterium.mp.
37. trichomon\*.mp.
38. syphilis.mp.
39. chancre\*.mp.
40. treponema pallidum.mp.
41. condyloma\* lat\*.mp.
42. genital ulcer\*.mp.
43. anogenital ulcer\*.mp.
44. vaginal ulcer\*.mp.
45. penile ulcer\*.mp.
46. vaginosis.mp.
47. urethritis.mp.
48. exp Sexually Transmitted Diseases/
49. human immunodeficiency virus.mp.

50. human immun#-deficiency virus.mp.
51. acquired immun#deficiency syndrome.mp.
52. acquired immun#-deficiency syndrome.mp.
53. HIV-1\*.mp.
54. HIV-2\*.mp.
55. HIV.mp.
56. HIV1.mp.
57. HIV2.mp.
58. AIDS.mp.
59. or/6-58
60. 5 or 59
61. telemedicine/
62. educational technology/
63. mobile telephones/
64. microcomputers/
65. minicomputers/
66. exp internet/
67. telecommunications/
68. social media/
69. multimedia instruction/
70. computer assisted instruction/
71. programmed learning/
72. video games/
73. computer games/
74. or/61-73
75. mHealth.mp.
76. m-health.mp.
77. mobile health.mp.
78. mobile technolog\*.mp.
79. (digital health or digital medicine).mp.
80. digital intervention\*.mp.
81. eHealth.mp.
82. e-health.mp.
83. electronic health.mp.
84. (information and communication technolog\*).mp.
85. health information technolog\*.mp.
86. electronic intervention\*.mp.
87. (telehealth or tele-health).mp.
88. (telemedicine or tele-medicine).mp.
89. informatic\*.mp.
90. mobile telephone\*.mp.
91. mobile phone\*.mp.
92. cellphone\*.mp.
93. cell\* phone\*.mp.
94. (smart phone\* or feature phone\*).mp.
95. smartphone\*.mp.
96. iPhone\*.mp.
97. i-Phone\*.mp.
98. iPad\*.mp.
99. i-Pad\*.mp.
100. iPod\*.mp.

101. i-Pod\*.mp.
102. mobile device\*.mp.
103. smart device\*.mp.
104. wearable device\*.mp.
105. tablet device\*.mp.
106. tablet computer\*.mp.
107. android.mp.
108. hand-held computer\*.mp.
109. handheld computer.mp.
110. hand-held device\*.mp.
111. handheld device.mp.
112. laptop\*.mp.
113. personal digital assistant\*.mp.
114. PDA.mp.
115. blackberry.mp.
116. samsung.mp.
117. nokia.mp.
118. MP3-player.mp.
119. MP3 player.mp.
120. mobile app\*.mp.
121. internet.mp.
122. online.mp.
123. world wide web.mp.
124. phone-based.mp.
125. telephone-based.mp.
126. computer-based.mp.
127. computer-assisted.mp.
128. voice-call\*.mp.
129. interactive voice response\*.mp.
130. (text messag\* or texting).mp.
131. short message\*.mp.
132. multimedia message\*.mp.
133. (voice message\* or video message\*).mp.
134. instant message\*.mp.
135. electronic message\*.mp.
136. electronic mail\*.mp.
137. e-mail.mp.
138. email.mp.
139. (webmail\* or web-mail\*).mp.
140. ((mobile or phone or telephone) adj5 (SMS or MMS or VoIP or USSD or IVR)).mp.
141. callback\*.mp.
142. text reminder\*.mp.
143. reminder system\*.mp.
144. ((digital or online or web) adj1 (forum\* or platform\*)).mp.
145. ((chat adj1 (room\* or platform\* or forum\* or feature\*)) or ((online or live or web) adj1 chat)).mp.
146. virtual simulation\*.mp.
147. virtual realit\*.mp.
148. (video gam\* or computer gam\*).mp.
149. digital media.mp.
150. social media.mp.



151. social network\*.mp.
152. (podcast\* or pod-cast\*).mp.
153. (webcast\* or web-cast\*).mp.
154. (videoconferenc\* or video-conferenc\*).mp.
155. Facebook.mp.
156. Twitter.mp.
157. Instagram.mp.
158. Whatsapp.mp.
159. (Youtube or You-tube or U-tube).mp.
160. Skype.mp.
161. Baidu.mp.
162. (Tinder or Grindr).mp.
163. (Google hangout\* or Viber or Snapchat).mp.
164. communication software\*.mp.
165. (weblog\* or vlog\* or blog or blogger or blogging).mp.
166. or/75-165
167. 74 or 166
168. 60 and 167
169. randomized controlled trials/
170. placebos/
171. (random\* or sham or placebo\*).mp.
172. ((singl\* or doubl\*) adj (blind\* or dumm\* or mask\*)).mp.
173. ((tripl\* or trebl\*) adj (blind\* or dumm\* or mask\*)).mp.
174. (control\* adj3 (study or studies or trial\* or group\*)).mp.
175. (Nonrandom\* or non random\* or non-random\* or quasi-random\* or quasirandom\*).mp.
176. allocated.ti,ab,hw.
177. ((open label or open-label) adj5 (study or studies or trial\*)).mp.
178. ((equivalence or superiority or non-inferiority or noninferiority) adj3 (study or studies or trial\*)).mp.
179. (pragmatic study or pragmatic studies).mp.
180. ((pragmatic or practical) adj3 trial\*).mp.
181. ((quasiexperimental or quasi-experimental) adj3 (study or studies or trial\*)).mp.
182. (phase adj3 (III or "3")) adj3 (study or studies or trial\*).mp.
183. or/169-182
184. 168 and 183
185. limit 184 to yr="2010-current"

## e) Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Sexually Transmitted Diseases] explode all trees
- #2 MeSH descriptor: [HIV] explode all trees
- #3 MeSH descriptor: [Acquired Immunodeficiency Syndrome] this term only
- #4 MeSH descriptor: [HIV Seropositivity] this term only
- #5 ("sexually transmitted infection\*"):ti,ab,kw
- #6 ("sexually transmitted disease\*"):ti,ab,kw
- #7 ("sexually transmissible infection\*"):ti,ab,kw
- #8 ("sexually transmissible disease\*"):ti,ab,kw
- #9 (STI or STIs or STD\*):ti,ab,kw
- #10 ("venereal disease\*"):ti,ab,kw
- #11 ("genital infection\*"):ti,ab,kw
- #12 ("genital disorder\*"):ti,ab,kw
- #13 ("genital herpes"):ti,ab,kw
- #14 ("herpes genitalis"):ti,ab,kw
- #15 ("herpes simplex virus type-2"):ti,ab,kw
- #16 (HSV-2):ti,ab,kw
- #17 ("chancroid\*"):ti,ab,kw
- #18 ("haemophilus ducreyi"):ti,ab,kw
- #19 (gonorrh\*):ti,ab,kw
- #20 (gonococc\*):ti,ab,kw
- #21 ("chlamydia infection\*"):ti,ab,kw
- #22 ("chlamydia trachomatis"):ti,ab,kw
- #23 ("Mycoplasma genitalium"):ti,ab,kw
- #24 ("lymphogranuloma venereum"):ti,ab,kw
- #25 ("granuloma inguinale"):ti,ab,kw
- #26 ("klebsiella granulomatis"):ti,ab,kw
- #27 ("donovanosis"):ti,ab,kw
- #28 ("Donovania"):ti,ab,kw
- #29 ("Calymmatobacterium"):ti,ab,kw
- #30 ("trichomon\*"):ti,ab,kw
- #31 ("syphilis"):ti,ab,kw
- #32 ("chancre\*"):ti,ab,kw
- #33 ("Treponema pallidum"):ti,ab,kw
- #34 ("condyloma\* lat\*"):ti,ab,kw
- #35 ("genital ulcer\*"):ti,ab,kw
- #36 ("anogenital ulcer\*"):ti,ab,kw
- #37 ("vaginal ulcer\*"):ti,ab,kw
- #38 ("penile ulcer\*"):ti,ab,kw
- #39 (vaginosis):ti,ab,kw
- #40 (urethritis):ti,ab,kw
- #41 ("human immuno deficiency virus" or "human immuno-deficiency virus" or "human immune deficiency virus" or "human immune- deficiency virus"):ti,ab,kw
- #42 ("acquired immune deficiency syndrome"):ti,ab,kw
- #43 ("acquired immunodeficiency syndrome"):ti,ab,kw
- #44 ("acquired immunodeficiency syndrome"):ti,ab,kw
- #45 ("acquired immune-deficiency syndrome"):ti,ab,kw
- #46 ("acquired immuno-deficiency syndrome"):ti,ab,kw
- #47 (HIV-1\*):ti,ab,kw
- #48 ("HIV-2\*"):ti,ab,kw

#49 (HIV):ti,ab,kw  
 #50 (HIV1):ti,ab,kw  
 #51 (HIV2):ti,ab,kw  
 #52 (AIDS):ti,ab,kw  
 #53 {or #1-#52} in Trials  
 #54 MeSH descriptor: [Telemedicine] explode all trees  
 #55 MeSH descriptor: [Public Health Informatics] explode all trees  
 #56 (mHealth):ti,ab,kw  
 #57 (m-health):ti,ab,kw  
 #58 ("mobile health"):ti,ab,kw  
 #59 ("mobile technology" or "mobile technologies"):ti,ab,kw  
 #60 ("digital health" or "digital medicine"):ti,ab,kw  
 #61 ("digital intervention" or "electronic intervention" or "digital interventions" or "electronic interventions"):ti,ab,kw  
 #62 (eHealth):ti,ab,kw  
 #63 (e-Health):ti,ab,kw  
 #64 ("electronic health"):ti,ab,kw  
 #65 ("information and communication technology" or "information and communication technologies"):ti,ab,kw  
 #66 ("health information technology" or "health information technologies"):ti,ab,kw  
 #67 (telehealth or tele-health):ti,ab,kw  
 #68 (telemedicine or tele-medicine):ti,ab,kw  
 #69 (informatics):ti,ab,kw  
 #70 MeSH descriptor: [Cell Phone] explode all trees  
 #71 MeSH descriptor: [Microcomputers] explode all trees  
 #72 MeSH descriptor: [Minicomputers] explode all trees  
 #73 MeSH descriptor: [Computers, Handheld] this term only  
 #74 MeSH descriptor: [Smartphone] this term only  
 #75 MeSH descriptor: [MP3-Player] this term only  
 #76 ("mobile telephone" or "mobile phone" or "mobile telephones" or "mobile phones"):ti,ab,kw  
 #77 (cellphone\* or "cellular phone" or "cellular phones" or "cell phone" or "cell phones"):ti,ab,kw  
 #78 (smartphone\* or "smart phone" or "feature phone" or "feature phones"):ti,ab,kw  
 #79 (iPhone\* or i-Phone\*):ti,ab,kw  
 #80 (iPad\* or i-Pad\*):ti,ab,kw  
 #81 (iPod\* or i-Pod\*):ti,ab,kw  
 #82 ((mobile or smart or wearable or tablet) NEAR/1 device\*):ti,ab,kw  
 #83 ("tablet computer" or "tablet computers"):ti,ab,kw  
 #84 (android):ti,ab,kw  
 #85 ((hand-held or handheld) NEAR/1 (device\* or computer\*)):ti,ab,kw  
 #86 (laptop):ti,ab,kw  
 #87 ("personal digital assistant" or "personal digital assistants"):ti,ab,kw  
 #88 (PDA):ti,ab,kw  
 #89 (Blackberry):ti,ab,kw  
 #90 (Samsung):ti,ab,kw  
 #91 (Nokia):ti,ab,kw  
 #92 ("MP3 player"):ti,ab,kw  
 #93 MeSH descriptor: [Internet] this term only  
 #94 MeSH descriptor: [Internet Access] this term only  
 #95 MeSH descriptor: [Internet-Based Intervention] this term only  
 #96 MeSH descriptor: [Cell Phone Use] explode all trees

#97 MeSH descriptor: [Social Media] explode all trees  
 #98 MeSH descriptor: [Telecommunications] explode all trees  
 #99 MeSH descriptor: [Videoconferencing] explode all trees  
 #100 MeSH descriptor: [Wireless Technology] this term only  
 #101 MeSH descriptor: [Multimedia] explode all trees  
 #102 MeSH descriptor: [Hypermedia] explode all trees  
 #103 MeSH descriptor: [Computer-Assisted Instruction] explode all trees  
 #104 MeSH descriptor: [Blogging] this term only  
 #105 MeSH descriptor: [Social Networking] explode all trees  
 #106 MeSH descriptor: [Text Messaging] this term only  
 #107 MeSH descriptor: [Webcast] this term only  
 #108 MeSH descriptor: [Webcasts as Topic] this term only  
 #109 MeSH descriptor: [Video-Audio Media] explode all trees  
 #110 MeSH descriptor: [Video Games] explode all trees  
 #111 MeSH descriptor: [Virtual Reality] explode all trees  
 #112 MeSH descriptor: [User-Computer Interface] explode all trees  
 #113 MeSH descriptor: [Reminder Systems] explode all trees  
 #114 MeSH descriptor: [Electronic Mail] explode all trees  
 #115 MeSH descriptor: [Mobile Applications] this term only  
 #116 ("mobile app" or "mobile apps" or "mobile application" or "mobile applications"):ti,ab,kw  
 #117 (internet):ti,ab,kw  
 #118 (online):ti,ab,kw  
 #119 ("world wide web"):ti,ab,kw  
 #120 (\*phone-based):ti,ab,kw  
 #121 (voice-call\*):ti,ab,kw  
 #122 ("interactive voice response"):ti,ab,kw  
 #123 ("text message" or "text messages" or "text messaging" or texting):ti,ab,kw  
 #124 ((short or multimedia or voice or video or instant or electronic) NEAR/1 messag\*):ti,ab,kw  
 #125 ("electronic mail" or "electronic mails" or e-mail\* or email\*):ti,ab,kw  
 #126 (webmail\* or web-mail\*):ti,ab,kw  
 #127 ((mobile or phone or telephone) NEAR/5 (SMS or MMS or VoIP or USSD or IVR)):ti,ab,kw  
 #128 (callback\*):ti,ab,kw  
 #129 ("text reminder" or "text reminders"):ti,ab,kw  
 #130 ("reminder system" or "reminder systems"):ti,ab,kw  
 #131 ((digital or online or web) NEAR/1 (forum\* or platform\*)):ti,ab,kw  
 #132 (chat NEAR/1 (room\* or platform\* or forum\* or feature\*)):ti,ab,kw  
 #133 ((online or live or web) NEAR/1 chat):ti,ab,kw  
 #134 ("virtual simulation" or "virtual simulations"):ti,ab,kw  
 #135 ("virtual realities" or "virtual reality"):ti,ab,kw  
 #136 ((video or computer) NEAR/1 gam\*):ti,ab,kw  
 #137 (digital media):ti,ab,kw  
 #138 (social media):ti,ab,kw  
 #139 ("social network" or "social networks"):ti,ab,kw  
 #140 (podcast\* or pod-cast\*):ti,ab,kw  
 #141 (webcast\* or web-cast\*):ti,ab,kw  
 #142 (videoconferenc\* or video-conferenc\*):ti,ab,kw  
 #143 (Facebook):ti,ab,kw  
 #144 (Twitter):ti,ab,kw  
 #145 (Instagram):ti,ab,kw  
 #146 (Whatsapp):ti,ab,kw  
 #147 (Youtube or You-tube or U-tube):ti,ab,kw

- #148 (Skype):ti,ab,kw
- #149 (Baidu):ti,ab,kw
- #150 (Tinder or Grindr):ti,ab,kw
- #151 ("Google hangout" or Viber or Snapchat):ti,ab,kw
- #152 ("communication software"):ti,ab,kw
- #153 (weblog\* or vlog\* or blog or blogger or blogging):ti,ab,kw
- #154 {or #54-#153}
- #155 {or #54-#153} in Trials
- #156 #53 and #155 Publication Year from 2010 to 2020 in Trials

#### **f) ClinicalTrials.gov**

Study type (Filter): Interventional Studies (Clinical trials)

Study results: All studies (with and without results)

Condition: STI OR STIs OR STD OR STDs OR Sexually transmitted OR HIV

Intervention/treatment: mHealth OR "mobile technology" OR "mobile device" OR "phone" OR smartphone OR cellphone OR iPhone OR iPad OR "tablet device" OR "tablet computer" OR "handheld device" OR "hand-held device" OR "mobile app" OR "mobile application"

Phase: 2, 3, 4, not applicable

Last update posted from 01/01/2010 to 02/19/2020

#### **g) WHO International Clinical Trials Registry Platform (ICTRP)**

Title: mHealth OR "mobile technology" OR "mobile device" OR "phone" OR smartphone OR cellphone OR iPhone OR iPad OR "tablet device" OR "tablet computer" OR "handheld device" OR "hand-held device" OR "mobile app" OR "mobile application"

Condition: STI OR STIs OR STD OR STDs OR Sexually transmitted OR HIV

Time restrictions: 01/01/2010 to 19/02/2020

## **B List of systematic reviews searched**

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meta-analysis 8(12). [Note: complete database search till Aug 2013, updated Medline search till Mar 2017]

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