Multifactorial e- and mHealth interventions for cardiovascular disease primary prevention: Protocol for a systematic review and meta-analysis of randomised controlled trials

Ovid MEDLINE(R)

1. Cardiovascular Diseases/
2. coronary disease/
3. hypertension/
4. exp Hyperlipidemias/
5. exp Arteriosclerosis/
6. (cardiovascular ADJ3 disease$).ti,ab,kw
7. (coronary adj2 disease$).ti,ab,kw
8. (heart disease$ OR coronary risk$ OR cardiovascular risk OR cholesterol OR arteriosclerosis OR atherosclerosis OR hypertension OR hyperlipid$emia).ti,ab,kw
9. ((cardiovascular OR CV OR CVD OR coronary OR CHD or heart disease OR cardiovascular disease OR multiple) ADJ3 (risk factor$ OR multifactor$ OR fit OR fitness)).ti,ab,kw
10. OR/1-9
11. Internet/
12. Web Browser/
13. Electronic Mail/
14. exp Microcomputers/
15. Minicomputers/
16. exp Cell Phone/
17. Mobile Applications/
18. Wireless Technology/
19. Social media/
20. Blogging/
21. Online Social Networking/
22. Telemedicine/
23. Computer-Assisted Instruction/
24. Therapy, Computer-Assisted/
25. ((email$ or e-mail$ or electronic mail$ or text message$ or SMS or short messaging service or MMS or multimedia messaging service or phone$ or cellphone$ or cell-phone$ or mobile phone$ or smartphone$ or smart-phone$ or mobile app$ or smartphone app$ or tablet computer$ or tablet PC or digital tablet$ or pda or personal digital assistant$ or social media or social networking or chat room$ or chatroom or yahoo or youtube or podcast$ or pod-cast$ or MP3 or MP4 or facebook or twitter or skyp$) adj3 (deliver$ or generate$ or based or provide$ or facilitate$ or support$ or treatment$ or therapy$ or intervention$ or prevent$ or primary prevention or program$ or feedback or assist$ or advice$ or counsel$)).ti,ab,kw
26. ((Internet$ or electronic$ or digital$ or technology$ or online or on-line or website or web-site or wireless or computer$ or laptop$ or software or web$ or weblog$ or blog$) adj3 (deliver$ or generate$ or based or provide$ or facilitate$ or support$ or treatment$ or therapy$ or intervention$ or prevent$ or primary prevention or program$ or feedback or assist$ or advice$ or counsel$)).ti,ab,kw
27. (eHealth or e-Health or electronic health or mHealth or m-Health or mobile health or virtual health or digital health or technological aid$ or telehealth).ti,ab,kw
28. OR/11-27
29. 10 AND 28
30. randomised controlled trial.pt.
31. controlled clinical trial.pt.
32. Randomi?ed.ab.
Multifactorial e- and mHealth interventions for cardiovascular disease primary prevention: Protocol for a systematic review and meta-analysis of randomised controlled trials

33. placebo.ab.
34. clinical trials as topic.sh.
35. randomly.ab.
36. trial.ti.
37. OR/30-36
38. exp Animals/ not humans.sh.
39. 37 not 38
40. 29 AND 39
41. limit 40 to yr="1991 -Current"
Multifactorial e- and mHealth interventions for cardiovascular disease primary prevention: Protocol for a systematic review and meta-analysis of randomised controlled trials

CINAHL
CINAHL Plus with Full Text

1. (MH "Cardiovascular Diseases")
2. (MH "Coronary Disease")
3. (MH "Hypertension")
4. (MH "Hyperlipidemia")
5. (MH "Arteriosclerosis")
6. TI cardiovascular N3 disease* OR AB cardiovascular N3 disease*
7. TI coronary N2 disease* OR AB coronary N2 disease*
8. TI ( heart disease* OR coronary risk* OR cardiovascular risk OR cholesterol OR arteriosclerosis OR atherosclerosis OR hypertension OR hyperlipidemia ) OR AB ( heart disease* OR coronary risk* OR cardiovascular risk OR cholesterol OR arteriosclerosis OR atherosclerosis OR hypertension OR hyperlipidemia )
9. TI ( cardiovascular OR CV OR CVD OR coronary OR CHD or heart disease OR cardiovascular disease OR multiple) N3 (risk factor* OR multifactor* OR fit OR fitness) ) OR AB ( cardiovascular OR CV OR CVD OR coronary OR CHD or heart disease OR cardiovascular disease OR multiple) N3 (risk factor* OR multifactor* OR fit OR fitness) )
10. S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9
11. (MH "Internet")
12. (MH "Web Browsers")
13. (MH "Email")
14. (MH "Microcomputers")
15. (MH "Minicomputers")
16. (MH "Internet of Things")
17. (MH "World Wide Web Applications")
18. (MH "World Wide Web")
19. (MH "Cellular Phone")
20. (MH "Mobile Applications")
21. (MH "Wireless Communications")
22. (MH "Social Media")
23. (MH "Blogs")
24. (MH "Online Social Networking")
25. (MH "Telemedicine")
26. (MH "Telehealth")
27. (MH "Computer Assisted Instruction")
28. (MH "Therapy, Computer Assisted")
29. TI ( email* or e-mail* or electronic mail* or text messag* or SMS or short messaging service or MMS or multimedia messaging service or phone* or cellphone* or cell- phone* or mobile phone* or smartphone* or smart-phone* or mobile app* or smartphone app* or tablet computer* or tablet PC or digital tablet* or pda or personal digital assistant* or social media or social networking or chat room* or chatroom or yahoo or youtube or podcast* or pod-cast* or MP3 or MP4 or facebook or twitter or skyp*) N3 (deliver* or generat* or based or provid* or facilitat* or support* or treatment* or therap* or interven* or prevent* or primary prevention or program* or feedback or assist* or advice* or counsel* ) OR AB ( email* or e-mail* or electronic mail* or text messag* or SMS or short messaging service or MMS or multimedia
Multifactorial e- and mHealth interventions for cardiovascular disease primary prevention: Protocol for a systematic review and meta-analysis of randomised controlled trials

messaging service or phone* or cellphone* or cell-phone* or mobile phone* or smartphone* or smart-phone* or mobile app* or smartphone app* or tablet computer* or tablet PC or digital tablet* or pda or personal digital assistant* or social media or social networking or chat room* or chatroom or yahoo or youtube or podcast* or podcast* or MP3 or MP4 or facebook or twitter or skyp* N3 (deliver* or generat* or based or provid* or facilitat* or support* or treatment* or therap* or interven* or prevent* or primary prevention or program* or feedback or assist* or advice* or counsel*)

30. TI ( (Internet* or electronic* or digital* or technolog* or online or on-line or website or web-site or wireless or computer* or laptop* or software or web* or weblog* or blog*) N3 (deliver* or generat* or based or provid* or facilitat* or support* or treatment? or therap* or interven* or prevent* or primary prevention or program* or feedback or assist* or advice* or counsel*) ) OR AB ( (Internet* or electronic* or digital* or technolog* or online or on-line or website or web-site or wireless or computer* or laptop* or software or web* or weblog* or blog*) N3 (deliver* or generat* or based or provid* or facilitat* or support* or treatment? or therap* or interven* or prevent* or primary prevention or program* or feedback or assist* or advice* or counsel*) )

31. TI ( ehealth or e-health or electronic health or mhealth or m-health or mobile health or virtual health or digital health or technological aid* or telehealth ) OR AB ( ehealth or e-health or electronic health or mhealth or m-health or mobile health or virtual health or digital health or technological aid* or telehealth )

32. S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29 OR S30 OR S31

33. S10 AND S32

34. (MH "Randomized Controlled Trials")

35. PT clinical trial

36. TX clinic* N1 trial?

37. TX ( (singl* n1 blind*) or (singl* n1 mask*) ) or TX ( (doubl* n1 blind*) or (doubl* n1 mask*) ) or TX ( (tripl* n1 blind*) or (tripl* n1 mask*) ) or TX ( (trebl* n1 blind*) or (trebl* n1 mask*) )

38. TX randomi* control* trial*

39. (MH “Random Assignment”)

40. TX random* allocat*

41. TX placebo*

42. (MH “Placebos”)

43. TX allocat* random*

44. S34 OR S35 OR S36 OR S37 OR S38 OR S39 OR S40 OR S41 OR S42 OR S43

45. S33 AND S44

46. S33 AND S44; Limiters – Published Date: 19910801-20190931
Multifactorial e- and mHealth interventions for cardiovascular disease primary prevention: Protocol for a systematic review and meta-analysis of randomised controlled trials

Embase
/de = index term
/exp =
:ab,ti,kw = in abstract or titles or author keywords
NEXT/n = words must be within n words inclusive of each other in the same order as they appear in the search form
* (replaces one or more letters)
? (single-letter truncation)
$ (replaces one or no letters)
(If a list of words is present in the search field, then Embase will add AND between them before running a search. E.g. heart attack ⇒ heart AND attack)

1. 'cardiovascular disease'/de
2. 'coronary artery disease'/de
3. 'hypertension'/de
4. 'hyperlipidemia'/exp
5. 'arteriosclerosis'/exp
6. (cardiovascular NEXT/2 disease$):ti,ab,kw
7. (coronary NEXT/2 disease$):ti,ab,kw
8. (“heart disease$" OR “coronary risk$" OR “cardiovascular risk” OR cholesterol OR arteriosclerosis OR atherosclerosis OR hypertension OR hyperlipidemia):ti,ab,kw
9. (((cardiovascular OR CV OR CVD OR coronary OR CHD or “heart disease” OR “cardiovascular disease” OR multiple) NEXT/3 (“risk factor$” OR multifactor$ OR fit OR fitness)):ti,ab,kw
10. #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9
11. 'internet'/de
12. 'web browser'/de
13. 'e-mail'/de
14. 'microcomputers'/de
15. 'minicomputers'/de
16. 'mobile phone'/exp
17. 'mobile application'/exp
18. 'social media'/de
19. 'wireless communication'/de
20. 'blogging'/de
21. 'online social network'/de
22. 'telemedicine'/de
23. 'computer assisted therapy'/de
24. ((email* OR 'e-mail*' OR "electronic mail*" OR “text messag*" OR sms OR 'short messaging service' OR mms OR 'multimedia messaging service' OR phone$ OR cellphone$ OR 'cell-phone$' OR “mobile phone$" OR smartphone$ OR 'smart-phone$' OR “mobile app*" OR “smartphone app*" OR “tablet computer$" OR 'tablet pc' OR “digital tablet$" OR pda OR “personal digital assistant$” OR 'social media' OR 'social networking' OR “chat room$" OR chatroom OR yahoo OR youtube OR podcast* OR 'pod-cast* OR mp3 OR mp4 OR facebook OR twitter OR skyp*) NEAR/3 (deliver* OR generat* OR based OR provid* OR facilitat* OR support* OR treatment$ OR therap* OR interven* OR prevent* OR 'primary prevention' OR program* OR feedback OR assist* OR advice$ OR counsel*)):ti,ab,kw
Multifactorial e- and mHealth interventions for cardiovascular disease primary prevention: Protocol for a systematic review and meta-analysis of randomised controlled trials

25. ((Internet* or electronic* or digital* or technolog* or online or “on-line” or website or “web-site” or wireless or computer* or laptop$ or software or web* or weblog* or blog*) NEAR/3 (deliver* or generat* or based or provid* or facilitat* or support* or treatment$ or therap* or interven* or prevent* or “primary prevention” or program* or feedback or assist* or advice$ or counsel*)):ti,ab,kw

26. (ehealth or “e-health” or “electronic health” or mhealth or “m-health” or “mobile health” or “virtual health” or “digital health” or “technological aid$” or telehealth):ti,ab,kw

27. #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26

28. #10 AND #27

29. (random* or randomi?ed or randomly or allocat* or assign* or placebo*):ti,ab

30. ((double or single) NEXT/1 (blind*)):ti,ab

31. “randomized controlled trial”/de

32. “controlled clinical trial”/de

33. #29 OR #30 OR #31 OR #32

34. (animal'/de OR 'nonhuman'/de) NOT 'human'/de

35. #33 NOT #34

36. 28 AND 35

37. #36 AND (1991:py OR 1992:py OR 1993:py OR 1994:py OR 1995:py OR 1996:py OR 1997:py OR 1998:py OR 1999:py OR 2000:py OR 2001:py OR 2002:py OR 2003:py OR 2004:py OR 2005:py OR 2006:py OR 2007:py OR 2008:py OR 2009:py OR 2010:py OR 2011:py OR 2012:py OR 2013:py OR 2014:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py)
Multifactorial e- and mHealth interventions for cardiovascular disease primary prevention: Protocol for a systematic review and meta-analysis of randomised controlled trials

PsycINFO

1. Cardiovascular Disorders/
2. Heart Disorders/
3. Hypertension/
4. Cholesterol/
5. exp Lipid Metabolism Disorders/
6. exp Arteriosclerosis/
7. (cardiovascular ADJ3 disease$).ti,ab
8. (coronary adj2 disease$).ti,ab
9. (heart disease$ OR coronary risk$ OR cardiovascular risk OR cholesterol OR arteriosclerosis OR atherosclerosis OR hypertension OR hyperlipidemia).ti,ab
10. ((cardiovascular OR CV OR CVD OR coronary OR CHD or heart disease OR cardiovascular disease OR multiple) ADJ3 (risk factor$ OR multifactor$ OR fit OR fitness)).ti,ab
11. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12. Internet/
13. Websites/
14. Computer mediated communication/
15. exp Microcomputers/
16. exp mobile devices/
17. exp mobile technology/
18. exp Wireless Technologies/
19. exp electronic health services/
20. exp Social media/
21. Blog/
22. Computer Assisted Therapy/
23. Computer Assisted Instruction/
24. ((email$ or e-mail$ or electronic mail$ or text messag$ or SMS or short messaging service or MMS or multimedia messaging service or phone$ or cellphone$ or cell-phone$ or mobile phone$ or smartphone$ or smart-phone$ or mobile app$ or smartphone app$ or tablet computer$ or tablet PC or digital tablet$ or pda or personal digital assistant$ or social media or social networking or chat room$ or chatroom or yahoo or youtube or podcast$ or pod-cast$ or MP3 or MP4 or facebook or twitter or skyp$) adj3 (deliver$ or generat$ or based or provid$ or facilitat$ or support$ or treatment$ or therap$ or interven$ or prevent$ or primary prevention or program$ or feedback or assist$ or advice$ or counsel$)).ti,ab,id
25. ((Internet$ or electronic$ or digital$ or technolog$ or online or on-line or website or web-site or wireless or computer$ or laptop$ or software or web$ or weblog$ or blog$) adj3 (deliver$ or generat$ or based or provid$ or facilitat$ or support$ or treatment? or therap$ or interven$ or prevent$ or primary prevention or program$ or feedback or assist$ or advice$ or counsel$)).ti,ab
26. (ehealth or e-health or electronic health or mhealth or m-health or mobile health or virtual health or digital health or technological aid$ or telehealth).ti,ab,id
27. 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26
28. 10 AND 28
29. Randomi?ed.ab.
30. placebo.ab.
Multifactorial e- and mHealth interventions for cardiovascular disease primary prevention: Protocol for a systematic review and meta-analysis of randomised controlled trials

31. exp clinical trials/
32. randomly.ab.
33. trial.ti.
34. 29 or 30 or 31 or 32 or 33
35. exp Animals/ not humans.sh.
36. 34 not 35
37. 28 AND 36
38. limit 37 to yr="1991 -Current"
Multifactorial e- and mHealth interventions for cardiovascular disease primary prevention: Protocol for a systematic review and meta-analysis of randomised controlled trials

The Cochrane Library

Cochrane Central Register of Controlled Trials, Cochrane Database of Systematic Reviews, Database of Abstracts of Reviews of Effects, Cochrane Methodological Register, Health Technology Assessment Database, NHS Economic Evaluation Database

1. MeSH descriptor: [Cardiovascular Diseases] this term only
2. MeSH descriptor: [Coronary Disease] this term only
3. MeSH descriptor: [Hypertension] this term only
4. MeSH descriptor: [Hyperlipidemias] explode all trees
5. MeSH descriptor: [Arteriosclerosis] explode all trees
6. (cardiovascular near/3 disease*):ti,ab,kw
7. (coronary near/2 disease*):ti,ab,kw
8. (“heart disease**” OR “coronary risk**” OR “cardiovascular risk” OR cholesterol OR arteriosclerosis OR atherosclerosis OR hypertension OR hyperlipidemia):ti,ab,kw
9. ((cardiovascular OR CV OR CVD OR coronary OR CHD or “heart disease” OR “cardiovascular disease” OR multiple) NEAR/3 (“risk factor**” OR multifactor* OR fit OR fitness)):ti,ab,kw
10. #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9
11. MeSH descriptor: [Internet] this term only
12. MeSH descriptor: [Web Browser] this term only
13. MeSH descriptor: [Electronic Mail] this term only
14. MeSH descriptor: [Microcomputers] explode all trees
15. MeSH descriptor: [Minicomputers] this term only
16. MeSH descriptor: [Cell Phone] explode all trees
17. MeSH descriptor: [Mobile Applications] this term only
18. MeSH descriptor: [Wireless Technology] this term only
19. MeSH descriptor: [Social media] this term only
20. MeSH descriptor: [Blogging] this term only
21. MeSH descriptor: [Online Social Networking] this term only
22. MeSH descriptor: [Telemedicine] this term only
23. MeSH descriptor: [Computer-Assisted Instruction] this term only
24. MeSH descriptor: [Therapy, Computer-Assisted] this term only
25. ((email* or "e-mail***" or “electronic mail***" or SMS or "short messaging service" or MMS or “multimedia messaging service” or phone$ or cellphone$ or "cell-phone$" or “mobile phone$” or smartphone$ or "smart-phone$" or “mobile app***” or “smartphone app***” or “tablet computer$” or “tablet PC” or “digital tablet$” or pda or “personal digital assistant$” or “social media” or “social networking” or “chat room$” or chatroom or yahoo or youtube or podcast* or "pod-cast***" or MP3 or MP4 or facebook or twitter or skyp*) NEAR/3 (deliver* or generat* or based or provid* or facilitat* or support* or treatment$ or therap* or interven* or prevent* or “primary prevention” or program* or feedback or assist* or advice$ or counsel*)):ti,ab,kw
26. ((Internet* or electronic* or digital* or technolog* or online or "on-line" or website or "web-site" or wireless or computer* or laptop$ or software or web* or weblog* or blog*) NEAR/3 (deliver* or generat* or based or provid* or facilitat* or support* or treatment$ or therap* or interven* or prevent* or “primary prevention” or program* or feedback or assist* or advice$ or counsel*)):ti,ab,kw
27. (ehealth or "e-health" or "electronic health" or mhealth or "m-health" or "mobile health" or "virtual health" or "digital health" or "technological aid***" or telehealth):ti,ab,kw
Multifactorial e- and mHealth interventions for cardiovascular disease primary prevention: Protocol for a systematic review and meta-analysis of randomised controlled trials

28. #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27
29. #10 AND #28
30. #29 with Publication Year from 1991 to 2019, with Cochrane Library publication date from Aug 1991 to Sep 2019, in Trials with Heart, Hypertension, Public Health, Metabolic and Endocrine Disorders, Stroke, Vascular, Work, Effective Practice and Organisation of Care, Cochrane Australia, Cochrane Brazil, Cochrane Canada, Cochrane Germany, Cochrane Iberoamerica, Cochrane Nordic, Cochrane South Asia, Cochrane UK, Cochrane Thailand in Cochrane Groups
Multifactorial e- and mHealth interventions for cardiovascular disease primary prevention: Protocol for a systematic review and meta-analysis of randomised controlled trials

Web of Science
Web of Science Core Collection

1. TS=(cardiovascular NEAR/2 disease*)
2. TS=(coronary NEAR/2 disease*)
3. TS=("heart disease*" OR "coronary risk*" OR "cardiovascular risk" OR cholesterol OR arteriosclerosis OR atherosclerosis OR hypertension OR hyperlipidemia)
4. TS=((cardiovascular OR CV OR CVD OR coronary OR CHD or "heart disease" OR "cardiovascular disease" OR multiple) NEAR/3 ("risk factor*" OR multifactor* OR fit OR fitness))
5. #4 OR #3 OR #2 OR #1
6. TS=(email* or e-mail* or "electronic mail*" or “text message*” or SMS or “short messaging service” or MMS or “multimedia messaging service” or phone$ or cellphone$ or cell-phone$ or “mobile phone$” or smartphone$ or smart-phone$ or “mobile app*” or “smartphone app*” or “tablet computer$” or “tablet PC” or “digital tablet$” or pda or “personal digital assistant$” or “social media” or “social networking” or “chat room$” or chatroom or yahoo or youtube or podcast* or pod-cast* or MP3 or MP4 or facebook or twitter or skyp*) NEAR/3 (deliver* or generat* or based or provid* or facilitat* or support* or treatment$ or therap* or interven* or prevent* or “primary prevention” or program* or feedback or assist* or advice$ or counsel))
7. TS=((Internet* or electronic* or digital* or technolog* or online or on-line or website or web-site or wireless or computer* or laptop$ or software or web* or weblog* or blog*) NEAR/3 (deliver* or generat* or based or provid* or facilitate* or support* or treatment* or therap* or interven* or prevent* or “primary prevention” or program* or feedback or assist* or advice$ or counsel))
8. TS=(ehealth or e-health or "electronic health" or mhealth or m-health or “mobile health” or “virtual health” or “digital health” or “technological aid$” or telehealth)
9. #8 OR #7 OR #6
10. #9 AND #5
11. TS=(rat or rats or animal* or mouse or mice)
12. #10 NOT #11
13. TS=(randomi?ed or randomly* or blind* or allocat* or assign* or trial* or placebo*)
14. #13 AND #12
15. #14 Timespan=1991-2019