

**Digital Technology for Mental Health
Priority Setting Partnership (PSP)
COPE database**

The Steering Group meeting on 22/2/17 approved the creation of a COPE (Current Overview of Published Evidence) database for the MindTech PSP. This database of published systematic reviews, looking at digital technology for mental health, will be our first port of call when checking for uncertainties.

Creating the COPE database

The database contains 1,772 references; the results of a literature search conducted by an expert health information scientist (Sarah Dawson from the University of Bristol) that was conducted on 5 April 2017. Our search aimed to find any systematic reviews, meta-analyses or scoping reviews about digital technology and mental health, published since 1 January 2012.

For the purposes of this search, our definitions of digital technology and mental health are in line with the PSP protocol. Full search strategies are in appendix A.

[Summary of search results](#)

Date of search: 5 April 2017

1. Bibliographic databases:
 - a. MEDLINE, n=548
 - b. Embase, n=806
 - c. PsycINFO, n=668
2. Cochrane Library:
 - a. CDSR, n=27
 - b. DARE, n=134
 - c. HTA, n=50
 - d. NHS-EED, n=82
 - e. Other: 2 unpublished CCMD Reviews
3. Other review databases:
 - a. Epistemonikos, n=106
 - b. Health Evidence, n=31
 - c. DoPHER, n=49
 - d. PROSPERO, n=45

Total=2,548

After de-duplication, n=1,772

Manually checking and indexing the database

The next step is to manually check through all of the records in the database to ensure that they are in scope for this PSP. Irrelevant records will be removed and the remaining references will be labelled so that the database can be used as a resource for checking uncertainties that are submitted via the survey. References will be labelled depending on the health conditions, populations and interventions that they focus on. For example, a systematic review about Internet-based cognitive behavioural therapy (iCBT) for treating clinical depression and anxiety disorders in older people will be labelled: iCBT, depression, anxiety, older people.

Mendeley group for shared access

The COPE database has been created using a web-based reference management system called Mendeley, which allows a team of people to all access and edit the database. Members of the PSP team who wish to access the database should install the Mendeley desktop app on their computers: <https://www.mendeley.com/downloads> and ask André for login details: andre.tomlin@minervation.com

Developing a top-level taxonomy for digital mental health questions

As far as we are aware, there is no existing taxonomy for this subject area, so we propose creating a simple way of indexing our COPE database and final list of uncertainties using the following broad categories:

1. Mental health problems
2. Digital technologies

Searching for answers/confirming that questions are uncertainties

In scope questions gathered via the survey will have to be confirmed as uncertainties through two rounds of searching:

1. Searching of the COPE database
2. If no answer is found, searching of the wider literature

It is important to note that some questions may require a broader search, e.g. questions relating to digital exclusion that are not specifically about mental health, which may be answered by evidence other than systematic reviews and guidance.

Part of the process of answering a question and classifying it as a certainty will be an assessment of the reliability of the evidence in question. For example, if we are looking at a systematic review that claims to provide an answer to a specific question, we will use the JLA criteria to confirm the reliability of the evidence (see chapter 7, stage 5 (verifying uncertainties) of the JLA guide).

Appendix A

MindTech Digital Technology and Mental Health Priority Setting Partnership

Database search strategies 5-April-2017

Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to 5 April 2017>

- 1 (((systematic or structured or evidence or trials).ti. and ((review or overview or look or examination or update\$ or summary).ti. or review.pt.)) or (meta analysis.pt. or meta analysis/ or "0266-4623".is.) or (reviewed systematically or systematically reviewed).tw. or (1469-493X or 1366-5278 or 1530-440X).is.) not ((animals/ not humans/) or letter.pt.) (174033)
- 2 ("review" or "review academic" or "review tutorial").pt. (2278580)
- 3 (medline or medlars or embase or pubmed).tw,sh. (139425)
- 4 (scisearch or psychinfo or psycinfo).tw,sh. (17686)
- 5 (psychlit or psyclit).tw,sh. (941)
- 6 cinahl.tw,sh. (17496)
- 7 ((hand adj2 search\$) or (manual\$ adj2 search\$)).tw,sh. (10260)
- 8 (electronic database\$ or bibliographic database\$ or computeri#ed database\$ or online database\$).tw,sh. (24139)
- 9 (pooling or pooled or mantel haenszel).tw,sh. (78537)
- 10 (retraction of publication or retracted publication).pt. (10470)
- 11 (peto or dersimonian or der simonian or fixed effect).tw,sh. (5403)
- 12 or/3-11 (232482)
- 13 2 and 12 (111711)
- 14 meta-analysis.pt. (78808)
- 15 meta-analysis.sh. (78808)
- 16 (meta-analys\$ or meta analys\$ or metaanalys\$).tw,sh. (138313)
- 17 ((systematic or meta) adj2 (analys* or review)).ti,kf. (120522)
- 18 (systematic\$ adj5 review\$).tw,sh. (112821)
- 19 (systematic\$ adj5 overview\$).tw,sh. (1436)
- 20 (quantitativ\$ adj5 review\$).tw,sh. (6116)
- 21 (quantitativ\$ adj5 overview\$).tw,sh. (251)
- 22 (quantitativ\$ adj5 synthesis\$).tw,sh. (1963)
- 23 (methodologic\$ adj5 review\$).tw,sh. (4822)
- 24 (methodologic\$ adj5 overview\$).tw,sh. (330)
- 25 (integrative research review\$ or research integration).tw. (118)
- 26 scoping review?.ti,kf. (1140)
- 27 review.ti,kf,pt. and (trials as topic or studies as topic).hw. (125801)
- 28 or/14-27 (313058)
- 29 1 or 13 or 28 (375091)
- 30 (android or app or apps or blog* or cCBT or c-CBT or CD-ROM or cell phone or cellphone or chat room or computer* or cyber* or digital technolog* or digital media* or DVD or eHealth or e-health or electronic health or e-mail* or email* or e-Portal or ePortal or ePsych* or e-Psych* or eTherap* or e-therap* or forum* or gaming or iCBT or i-CBT or information technolog* or instant messag* or messaging or internet* or ipad or i-pad or iphone or i-phone or ipod or i-pod or podcast or smart phone or smartphone or social network* site* or social networking or mHealth or m-health or mobile or multi-media or multimedia or online* or on-line or personal digital assistant or PDA or SMS or social medi* or software or telecomm* or telehealth* or telemed* or telemonitor* or telepsych* or teletherap* or tele-health* or tele-med* or tele-monitor* or tele-psych* or tele-therap* or text messag* or texting or virtual* or web* or WWW).ti,kf,hw. (782004)
- 31 computer communication networks/ or internet/ or blogging/ or social media/ (77018)

32 cell phones/ or smartphone/ or text messaging/ or videoconferencing/ or webcasts as topic/
or wireless technology/ (12405)

33 (telecomm* or tele-comm*).ti,kf. (772)

34 Telemedicine/ (15990)

35 (technology based or ((technology or technologies) adj5 (deliver* or wearable or information
or communication? or mood or mental or psychiatr*))).ti,kf. (6068)

36 digital.ti,kf. (31972)

37 (eLearning or blended learning).ti,kf. (334)

38 (gaming or gamification or smartwatch* or wearable device? or wearables or videogame or
video game or videoconferenc* or video conferenc*).ti,kf. (2743)

39 (synchronous or asynchronous or (electronic adj2 deliver*)).ti,kf. (9591)

40 artificial intelligen*.ti,ab,kf. (2334)

41 artificial intelligence/ or computer heuristics/ or expert systems/ or knowledge bases/ or
machine learning/ or robotics/ (43362)

42 (Beat* the Blues or Blues Begone or blended CBT or bCBT or b-CBT or BluesBegone or
BounceBackNow or Bounce Back Now or BrainMaster or Brain Master or BrainGame or Brain
Game or BRAVEOnline or BRAVE-online or Brave for Teen* or Brave for Child* or caCCBT or
CALM or CAVE or CaptainsLog or Captains Log or CatchIT or Catch-IT or CATTs or Camp Cope-
A-Lot or CogMed or Cool Teens or ecompared or e-compared or FindMe or Glasgow Steps or
GlasgowSteps or GripOpJeDip or Grip Op Je Dip or Interapy or MasterYourMoodOnline or Master
Your Mood or Mindcheck* or MindReading or Mind Reading or MoodGym or Mood Gym or
Moodhelper or Mood Helper or NetCope or Net Cope or OCFighter or OC-Fighter or
PlayAttention or Play Attention or Pratenonline or Praten Online or RoboMemo or SALUDBN or
SALUD BN or SmartBrain or Smart Brain or SPARX or StressBusters or Stress Busters or
Stresspac or StudentBodies or Student Bodies or The Journey or ThisWayUp or This-Way-
Up).ti,kf. (6524)

43 (MobileType or Mobilyze).ti,kf. (4)

44 (The Journey or Think Feel Do or Bebo or Chatbot or Chat-bot or Club Penguin or Facebook
or Franktown or Friendster or Habbo or Jabbersmack or hi5 or iTwixie or MySpace or Orkut or
Sweety High or Kidzworld or Tumblr or Twitter or Sina Weibo or Yoursphere or YouTube).ti,kf.
(6078)

45 or/30-44 (841978)

46 mental disorders/ or anxiety disorders/ or agoraphobia/ or anxiety, separation/ or
neurocirculatory asthenia/ or neurotic disorders/ or obsessive-compulsive disorder/ or hoarding
disorder/ or panic disorder/ or phobic disorders/ or phobia, social/ or "bipolar and related
disorders"/ or bipolar disorder/ or "disruptive, impulse control, and conduct disorders"/ or firesetting
behavior/ or gambling/ or trichotillomania/ or dissociative disorders/ or multiple personality disorder/
or "feeding and eating disorders"/ or anorexia nervosa/ or binge-eating disorder/ or bulimia
nervosa/ or "feeding and eating disorders of childhood"/ or female athlete triad syndrome/ or pica/
or mood disorders/ or depressive disorder/ or depression, postpartum/ or depressive disorder,
major/ or depressive disorder, treatment-resistant/ or dysthymic disorder/ or premenstrual
dysphoric disorder/ or seasonal affective disorder/ or cyclothymic disorder/ or neurocognitive
disorders/ or alcohol amnestic disorder/ or korsakoff syndrome/ or auditory perceptual disorders/ or
"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with
hyperactivity/ or conduct disorder/ or child development disorders, pervasive/ or asperger
syndrome/ or autism spectrum disorder/ or autistic disorder/ or mutism/ or reactive attachment
disorder/ or schizophrenia, childhood/ or stereotypic movement disorder/ or tic disorders/ or
tourette syndrome/ or paraphilic disorders/ or exhibitionism/ or "fetishism (psychiatric)"/ or
masochism/ or pedophilia/ or sadism/ or transvestism/ or voyeurism/ or personality disorders/ or
antisocial personality disorder/ or borderline personality disorder/ or compulsive personality
disorder/ or dependent personality disorder/ or histrionic personality disorder/ or hysteria/ or
paranoid personality disorder/ or passive-aggressive personality disorder/ or schizoid personality
disorder/ or schizotypal personality disorder/ or "schizophrenia spectrum and other psychotic
disorders"/ or affective disorders, psychotic/ or capgras syndrome/ or
delusional parasitosis/ or morgellons disease/ or paranoid disorders/ or psychotic disorders/ or
psychoses, substance-induced/ or psychoses, alcoholic/ or schizophrenia/ or schizophrenia,

catatonic/ or schizophrenia, disorganized/ or schizophrenia, paranoid/ or shared paranoid disorder/ or sexual dysfunctions, psychological/ or dyspareunia/ or vaginismus/ or sleep wake disorders/ or dyssomnias/ or sleep deprivation/ or sleep disorders, circadian rhythm/ or jet lag syndrome/ or sleep disorders, intrinsic/ or "disorders of excessive somnolence"/ or "sleep initiation and maintenance disorders"/ or parasomnias/ or nocturnal paroxysmal dystonia/ or sleep arousal disorders/ or night terrors/ or somnambulism/ or sleep-wake transition disorders/ or somatoform disorders/ or body dysmorphic disorders/ or conversion disorder/ or factitious disorders/ or munchausen syndrome/ or munchausen syndrome by proxy/ or hypochondriasis/ or neurasthenia/ or substance-related disorders/ or alcohol-related disorders/ or alcohol withdrawal delirium/ or alcoholic intoxication/ or alcoholism/ or binge drinking/ or wernicke encephalopathy/ or amphetamine-related disorders/ or cocaine-related disorders/ or inhalant abuse/ or marijuana abuse/ or opioid-related disorders/ or heroin dependence/ or morphine dependence/ or phencyclidine abuse/ or substance abuse, intravenous/ or "tobacco use disorder"/ or "trauma and stressor related disorders"/ or adjustment disorders/ or stress disorders, traumatic/ or battered child syndrome/ or combat disorders/ or psychological trauma/ or stress disorders, post-traumatic/ or stress disorders, traumatic, acute/ (810591)

47 Mental Health/ (29034)

48 mental health services/ or community mental health services/ (48119)

49 catatonia/ or child reactive disorders/ or delusions/ or depersonalization/ or depression/ or human coprophagia/ or malingering/ or mental fatigue/ or alert fatigue, health personnel/ or compassion fatigue/ or obsessive behavior/ or stalking/ or paranoid behavior/ or polydipsia, psychogenic/ or problem behavior/ or schizophrenic language/ or self-injurious behavior/ or self mutilation/ or suicide/ or suicidal ideation/ or suicide, attempted/ or stress, psychological/ or wandering behavior/ or dangerous behavior/ or drinking behavior/ or alcohol drinking/ or alcohol drinking in college/ or drug-seeking behavior/ or escape reaction/ or harm reduction/ or impulsive behavior/ or compulsive behavior/ or behavior, addictive/ or "inhibition (psychology)"/ or marijuana smoking/ or hoarding/ or risk-taking/ or gambling/ or social adjustment/ or psychology, social/ or psychosocial deprivation/ (403894)

50 (psychiatr* or psychosocial or psychological or psychotherap* or mental or anxiety disorder* or agoraphobi* or astheni* or neurotic or neuros* or ADNOS or obsess* or compulsi* or hoarding or panic or phobi* or agoraphobi* or social anxiety or school refusal or bipolar or impulse control or impulsive or conduct disorder* or firesetting or fire-setting or gambling or gambler* or trichotillomani* or dissociative disorder* or personality disorder* or BPD or eating disorder* or anorexia nervosa or binge-eating or binging or bulimi* or EDNOS or female athlete triad syndrome or pica or coprophagi* or mood or depressive or depression or dysthymi* or dysphori* or seasonal affective disorder* or cyclothymi* or neurocognitive disorder* or perceptual disorders* or attention deficit or ADHD or hyperactivity or disruptive behavi* or conduct disorder or pervasive development disorder* or Asperger* or autism or autistic or mutism or attachment disorder* or schizo* or tic disorder* or Tourette* or paraphili* or exhibitionism or fetishis* or masochis* or p?edophili* or sadis* or transvesti* or voyeuris* or hysteri* or paranoi* or passive-aggressive or psychotic or psychos* or affective disorder* or ((substance or drug) adj abus*) or SUD* or addiction or addictive or ((alcohol or tobacco or drug or marijuana or opioid or heroin or morphine) adj (user* abuse* or dependen*)) or marijuana smoking or binge drink* or dyspareunia* or vaginismus or sleep disorder* or insomnia* or dyssomni* or sleep deprivation or jet lag or somnolence or parasomni* or dystoni* or night terror* or nightmare* or somnambulis* or somatoform or somatic or psychosomatic or medically unexplained or MUPS or body dysmorphi* or conversion disorder* or factitious disorder* or munchausen or hypochondri* or health anxiety or neurastheni* or (psychological adj (trauma or stress*)) or adjustment disorder* or acute stress or stress disorder* or PTSD or ((post-trauma* or posttrauma*) adj stress*) or combat disorder* or catatoni* or delusion* or depersonalization or malingering or stalking or psychogenic or (self adj (injur* or harm or mutilat*)) or suicide* or harm reduction or risk-taking or social adjustment).ti. (805273)

51 or/46-50 (1404802)

52 29 and 45 and 51 (935)

53 ("2012" or "2013" or "2014" or "2015" or "2016" or "2017").yr. (5832215)

54 52 and 53 (587)

55 remove duplicates from 54 (548)

Embase (Ovid)

Database: Embase <1974 to 2017 Week 15>

Search Strategy:

- 1 "systematic review"/ (160056)
- 2 "systematic review (topic)"/ (28425)
- 3 ("randomized controlled trial (topic)"/ or "controlled clinical trial (topic)"/) not trial.ti. (132718)
- 4 meta analysis/ (162402)
- 5 (systematic or structured or evidence or trials).ti. and ((review or overview or look or examination or update\$ or summary).ti. or journal review.pt. or review.hw.) (136171)
- 6 (meta analy* or metaanaly*).ti,kw. (92358)
- 7 ((systematic or meta) adj2 (analys* or review or synthesis)).ti,kw. (150683)
- 8 (research review or scoping review).ti,kw. (1422)
- 9 (reviewed adj1 systematically).ab. (5208)
- 10 ((quantitative or qualitative) adj3 (overview or review or synthesis)).ti,kw. (2365)
- 11 ((cochrane or embase or medline or pubmed or psychlit or psyclit or psychinfo or psycinfo or cinahl or cinhal or citation index or web of science or scopus or google scholar) and (literature or search* or systematic* or screen* or studies or trials or databases or references or articles)).ab. and review.ti,jw,hw,kw. (130333)
- 12 Cochrane.jw. or (1469-493X or 1366-5278).is. (16828)
- 13 or/1-12 (440361)
- 14 internet/ (97725)
- 15 blogging/ or e-mail/ or social media/ or text messaging/ or videoconferencing/ or webcast/ or wireless communication/ (33603)
- 16 telecommunication/ or teleconference/ (32992)
- 17 telemedicine/ or telehealth/ or telepsychiatry/ or teletherapy/ (21891)
- 18 mobile phone/ or smartphone/ (15885)
- 19 mobile application.hw. (3723)
- 20 *technology/ (42913)
- 21 computer program/ or digital computer/ or personal computer/ or computer assisted therapy/ (227380)
- 22 *computer/ (42196)
- 23 video game/ (818)
- 24 virtual reality/ or computer simulation/ (114924)
- 25 (android or app or apps or blog* or cCBT or c-CBT or CD-ROM or cell phone or cellphone or chat room or computer* or cyber* or digital technolog* or digital media* or DVD or eHealth or e-health or electronic health or e-mail* or email* or e-Portal or ePortal or ePsych* or e-Psych* or eTherap* or e-therap* or forum* or gaming or iCBT or i-CBT or information technolog* or instant messag* or messaging or internet* or ipad or i-pad or iphone or i-phone or ipod or i-pod or podcast or smart phone or smartphone or social network* site* or social networking or mHealth or m-health or mobile or multi-media or multimedia or online* or on-line or personal digital assistant or PDA or SMS or social medi* or software or telecomm* or telehealth* or telemed* or telemonitor* or telepsych* or teletherap* or tele-health* or tele-med* or tele-monitor* or tele-psych* or tele-therap* or text messag* or texting or virtual* or web* or WWW).ti,kw. (275684)
- 26 (telecomm* or tele-comm*).ti,kw. (838)
- 27 (technology based or ((technology or technologies) adj5 (deliver* or wearable or information or communication? or mood or mental or psychiatr*))).ti,kw. (7506)
- 28 digital.ti,kw. (38550)
- 29 (eLearning or blended learning).ti,kw. (427)
- 30 (gaming or gamification or smartwatch* or wearable device? or wearables or videogame or video game or videoconferenc* or video conferenc*).ti,kw. (2966)
- 31 (synchronous or asynchronous or (electronic adj2 deliver*)).ti,kw. (11610)
- 32 artificial intelligence.ti,kw,hw. (17009)

33 (Beat* the Blues or Blues Begone or blended CBT or bCBT or b-CBT or BluesBegone or BounceBackNow or Bounce Back Now or BrainMaster or Brain Master or BrainGame or Brain Game or BRAVEOnline or BRAVE-online or Brave for Teen* or Brave for Child* or caCCBT or CAVE or CaptainsLog or Captains Log or CatchIT or Catch-IT or CATTs or Camp Cope-A-Lot or CogMed or Cool Teens or ecompared or e-compared or FindMe or Glasgow Steps or GlasgowSteps or GripOpJeDip or Grip Op Je Dip or Interapy or MasterYourMoodOnline or Master Your Mood or Mindcheck* or MindReading or Mind Reading or MobileType or Mobilyze or MoodGym or Mood Gym or Moodhelper or Mood Helper or NetCope or Net Cope or OCFighter or OC-Fighter or PlayAttention or Play Attention or Pratenonline or Praten Online or RoboMemo or SALUDBN or SALUD BN or SmartBrain or Smart Brain or SPARX or StressBusters or Stress Busters or Stresspac or StudentBodies or Student Bodies or The Journey or ThisWayUp or This-Way-Up).ti,kw. (7028)

34 (The Journey or Think Feel Do or Bebo or Chatbot or Chat-bot or Club Penguin or Facebook or Franktown or Friendster or Habbo or Jabbersmack or hi5 or iTwixie or MySpace or Orkut or Sweet High or Kidzworld or Tumblr or Twitter or Sina Weibo or Yoursphere or YouTube).ti,kw. (6905)

35 or/14-34 (765415)

36 mental health/ or community mental health/ (135408)

37 (psychiatr* or psychotherap* or mental or anxiety disorder* or agoraphobi* or astheni* or neurotic or neuros* or ADNOS or obsess* or compulsi* or hoarding or panic or phobi* or agoraphobi* or social anxiety or school refusal or (bipolar adj2 disorder) or impulse control or impulsive or conduct disorder* or firesetting or fire-setting or gambling or gambler* or trichotillomani* or dissociative disorder* or personality disorder* or BPD or eating disorder* or anorexia nervosa or binge-eating or binging or bulimi* or EDNOS or female athlete triad syndrome or pica or coprophagi* or mood or depressive or depression or dysthymi* or dysphori* or seasonal affective disorder* or cyclothymi* or neurocognitive disorder* or perceptual disorders* or attention deficit or ADHD or hyperactivity or disruptive behavi* or conduct disorder or pervasive development disorder* or Asperger* or autism or autistic or mutism or attachment disorder* or schizo* or tic disorder* or Tourette* or paraphili* or exhibitionism or fetishis* or masochis* or p?edophili* or sadis* or transvesti* or voyeuris* or hysteri* or paranoi* or passive-aggressive or psychotic or psychos* or affective disorder* or ((substance or drug) adj abus*) or SUD* or addiction or addictive or ((alcohol or tobacco or drug or marijuana or opioid or heroin or morphine) adj (user* abuse* or dependen*)) or marijuana smoking or binge drink* or dyspareunia* or vaginismus or sleep disorder* or insomnia* or dyssomni* or sleep deprivation or jet lag or somnolence or parasomni* or dystoni* or night terror* or nightmare* or somnambulism* or somatoform or (somatic and disorder*) or psychosomatic or medically unexplained or MUPS or body dysmorphi* or conversion disorder* or factitious disorder* or munchausen or hypochondri* or health anxiety or neurastheni* or (psychological adj (disorder* or trauma or stress*)) or adjustment disorder* or acute stress or stress disorder* or PTSD or ((post-trauma* or posttrauma*) adj stress*) or combat disorder* or catatoni* or delusion* or depersonalization or malingering or stalking or psychogenic or (self adj (injur* or harm or mutilat*)) or suicide* or harm reduction or risk-taking or social adjustment).ti. (881300)

38 exp *mental disease/ (1267912)

39 mental disease/di, dm, rh, th (43207)

40 exp dementia/ or intellectual impairment/ (327620)

41 delirium.ti. (8249)

42 (or/36-39) not (40 or 41) (1424187)

43 13 and 35 and 42 (1538)

44 ("2012" or "2013" or "2014" or "2015" or "2016" or "2017").yr. (7555312)

45 43 and 44 (1094)

46 remove duplicates from 45 (978)

47 (letter or editorial or note or conference).pt. (5458268)

48 46 not 47 (806)

Ovid PsycINFO <1806 to March Week 4 2017>

Search Strategy:

- 1 "literature review"/ (22307)
- 2 meta analysis/ (3979)
- 3 ("0800" or "1200" or "1300").md. (140755)
- 4 ((systematic or structured or evidence or trials) and (review or overview or look or examination or update\$ or summary)).ti. (15504)
- 5 (meta analy* or metaanaly*).ti,id. (16242)
- 6 ((systematic or meta) adj2 (analys* or review or synthesis)).ti,id. (25903)
- 7 (research review or scoping review).ti,id. (2751)
- 8 (reviewed adj1 systematically).ab. (889)
- 9 ((quantitative or qualitative) adj3 (overview or review or synthesis)).ti,id. (1157)
- 10 ((cochrane or embase or medline or pubmed or psychlit or psyclit or psychinfo or psycinfo or cinahl or cinhal or citation index or web of science or scopus or google scholar) and (literature or search* or systematic* or screen* or studies or trials or databases or references or articles)).ab. and review.ti,jw,hw,id. (94076)
- 11 or/1-10 (194263)
- 12 (android or app or apps or blog* or cCBT or c-CBT or CD-ROM or cell phone or cellphone or chat room or computer* or cyber* or digital technolog* or digital media* or DVD or eHealth or e-health or electronic health or e-mail* or email* or e-Portal or ePortal or ePsych* or e-Psych* or eTherap* or e-therap* or forum* or gaming or iCBT or i-CBT or information technolog* or instant messag* or messaging or internet* or ipad or i-pad or iphone or i-phone or ipod or i-pod or podcast or smart phone or smartphone or social network* site* or social networking or mHealth or m-health or mobile or multi-media or multimedia or online* or on-line or personal digital assistant or PDA or SMS or social medi* or software or telecomm* or telehealth* or telemed* or telemonitor* or telepsych* or teletherap* or tele-health* or tele-med* or tele-monitor* or tele-psych* or tele-therap* or text messag* or texting or virtual* or web* or WWW).ti,id. (117123)
- 13 (telecomm* or tele-comm*).ti,id. (916)
- 14 (technology based or ((technology or technologies) adj5 (deliver* or wearable or information or communication? or mood or mental or psychiatr* or CBT or cognitive behavio* therap* or psychotherap*))).ti,id. (8847)
- 15 digital.ti,id. (6825)
- 16 (eLearning or blended learning).ti,id. (512)
- 17 (gaming or gamification or smartwatch* or wearable device? or wearables or videogame or video game or videoconferenc* or video conferenc*).ti,id. (3841)
- 18 (synchronous or asynchronous or (electronic adj2 deliver*)).ti,id. (1541)
- 19 artificial intelligence.ti,kw,id. (2708)
- 20 internet/ or websites/ (29122)
- 21 mobile devices/ or cellular phones/ (4574)
- 22 social media/ or online social networks/ or blog/ or online community/ or text messaging (9266)
- 23 electronic communication/ or exp computer mediated communication/ or electronic learning/ (8437)
- 24 online therapy/ or telemedicine/ (5638)
- 25 virtual classrooms/ or virtual teams/ or computer simulation/ or virtual reality/ or computer games/ or simulation games/ (17289)
- 26 telecommunications media/ (1326)
- 27 teleconferencing/ (811)
- 28 technology/ or information technology/ or exp computer applications/ or computer software/ (99259)
- 29 computers/ or computer games/ or digital computers/ or microcomputers/ (17233)
- 30 (Beat* the Blues or Blues Begone or blended CBT or bCBT or b-CBT or BluesBegone or BounceBackNow or Bounce Back Now or BrainMaster or Brain Master or BrainGame or Brain Game or BRAVEOnline or BRAVE-online or Brave for Teen* or Brave for Child* or caCCBT or

CAVE or CaptainsLog or Captains Log or CatchIT or Catch-IT or CATTs or Camp Cope-A-Lot or CogMed or Cool Teens or ecompared or e-compared or FindMe or Glasgow Steps or GlasgowSteps or GripOpJeDip or Grip Op Je Dip or Interapy or MasterYourMoodOnline or Master Your Mood or Mindcheck* or MindReading or Mind Reading or MobileType or Mobilyze or MoodGym or Mood Gym or Moodhelper or Mood Helper or NetCope or Net Cope or OCFighter or OC-Fighter or PlayAttention or Play Attention or Pratenonline or Praten Online or RoboMemo or SALUDBN or SALUD BN or SmartBrain or Smart Brain or SPARX or StressBusters or Stress Busters or Stresspac or StudentBodies or Student Bodies or The Journey or ThisWayUp or This-Way-Up).ti,id. (3472)

31 (The Journey or Think Feel Do or Bebo or Chatbot or Chat-bot or Club Penguin or Facebook or Franktown or Friendster or Habbo or Jabbersmack or hi5 or iTwixie or MySpace or Orkut or Sweet High or Kidzworld or Tumblr or Twitter or Sina Weibo or Yoursphere or YouTube).ti,id. (5314)

32 self-help.ti,id. (3764)

33 or/12-32 (184436)

34 (psychiatr* or psychotherap* or mental or anxiety disorder* or agoraphobi* or astheni* or neurotic or neuros* or ADNOS or obsess* or compulsi* or hoarding or panic or phobi* or agoraphobi* or social anxiety or school refusal or (bipolar adj2 disorder) or impulse control or impulsive or conduct disorder* or firesetting or fire-setting or gambling or gambler* or trichotillomani* or dissociative disorder* or personality disorder* or BPD or eating disorder* or anorexia nervosa or binge-eating or binging or bulimi* or EDNOS or female athlete triad syndrome or pica or coprophagi* or mood or depressive or depression or dysthymi* or dysphori* or seasonal affective disorder* or cyclothymi* or neurocognitive disorder* or perceptual disorders* or attention deficit or ADHD or hyperactivity or disruptive behavi* or conduct disorder or pervasive development disorder* or Asperger* or autism or autistic or mutism or attachment disorder* or schizo* or tic disorder* or Tourette* or paraphili* or exhibitionism or fetishis* or masochis* or p?edophili* or sadis* or transvesti* or voyeuris* or hysteri* or paranoi* or passive-aggressive or psychotic or psychos* or affective disorder* or ((substance or drug) adj abus*) or SUD* or addiction or addictive or ((alcohol or tobacco or drug or marijuana or opioid or heroin or morphine) adj (user* abuse* or dependen*)) or marijuana smoking or binge drink* or dyspareunia* or vaginismus or sleep disorder* or insomnia* or dyssomni* or sleep deprivation or jet lag or somnolence or parasomni* or dystoni* or night terror* or nightmare* or somnambulis* or somatoform or (somatic and disorder*) or psychosomatic or medically unexplained or MUPS or body dysmorphi* or conversion disorder* or factitious disorder* or munchausen or hypochondri* or health anxiety or neurastheni* or (psychological adj (disorder* or trauma or stress*)) or adjustment disorder* or acute stress or stress disorder* or PTSD or ((post-trauma* or posttrauma*) adj stress*) or combat disorder* or catatoni* or delusion* or depersonalization or malingering or stalking or psychogenic or (self adj (injur* or harm or mutilat*)) or suicide* or harm reduction or risk-taking or social adjustment).ti. (624883)

35 mental disorders/ or adjustment disorders/ or exp affective disorders/ or alexithymia/ or exp anxiety disorders/ or autism spectrum disorders/ or exp chronic mental illness/ or exp dissociative disorders/ or exp eating disorders/ or elective mutism/ or exp factitious disorders/ or exp gender identity disorder/ or exp hoarding disorder/ or exp hysteria/ or exp impulse control disorders/ or koro/ or mental disorders due to general medical conditions/ or exp neurosis/ or exp paraphilias/ or exp personality disorders/ or exp psychosis/ or schizoaffective disorder/ (466343)

36 behavior disorders/ or exp addiction/ or attempted suicide/ or exp drug abuse/ or exp juvenile delinquency/ or self-mutilation/ or "substance use disorder"/ (146971)

37 self-destructive behavior/ or attempted suicide/ or head banging/ or self-inflicted wounds/ or exp self-injurious behavior/ or self-mutilation/ or exp suicide/ (36050)

38 borderline personality disorder/ or personality disorders/ (15966)

39 exp attention deficit disorder/ (23088)

40 exp mental health/ or psychiatric patients/ or exp mental health programs/ (90418)

CCMD's topic list: APA Subject Headings (PsycINFO):

41 eating disorders/ or anorexia nervosa/ or bulimia/ or hyperphagia/ or kleine levin syndrome/ or pica/ or "purging (eating disorders)"/ (26107)

42 aphagia/ (56)

43 coprophagia/ (11)
44 binge eating/ (2499)
45 self destructive behavior/ or attempted suicide/ or head banging/ or self inflicted wounds/ or self injurious behavior/ or self mutilation/ or suicide/ (35133)
46 suicide prevention/ (3883)
47 suicidal ideation/ (6942)
48 affective disorders/ (12826)
49 affective psychosis/ (550)
50 bipolar disorder/ or cyclothymic personality/ (23654)
51 major depression/ or anaclitic depression/ or dysthymic disorder/ or endogenous depression/ or postpartum depression/ or reactive depression/ or recurrent depression/ or treatment resistant depression/ (111661)
52 atypical depression/ (186)
53 "depression (emotion)"/ (23453)
54 seasonal affective disorder/ (1000)
55 anxiety disorders/ or acute stress disorder/ or castration anxiety/ or death anxiety/ or generalized anxiety disorder/ or obsessive compulsive disorder/ or panic disorder/ or posttraumatic stress disorder/ or separation anxiety/(64499)
56 phobias/ or acrophobia/ or agoraphobia/ or claustrophobia/ or ophidiophobia/ or school phobia/ or social phobia/(11999)
57 "debriefing (psychological)"/ (265)
58 neurosis/ or childhood neurosis/ or experimental neurosis/ or occupational neurosis/ or traumatic neurosis/(7593)
59 adjustment disorders/ (596)
60 coping behavior/ (42748)
61 adjustment/ or exp emotional adjustment/ or occupational adjustment/ or school adjustment/ or social adjustment/(47840)
62 emotional trauma/ (14716)
63 stress/ or chronic stress/ or environmental stress/ or occupational stress/ or psychological stress/ or social stress/ or stress reactions/ (88820)
64 anxiety/ or computer anxiety/ or mathematics anxiety/ or performance anxiety/ or social anxiety/ or speech anxiety/ or test anxiety/ (61006)
65 Panic Attack/ or Panic/ or Panic Disorder/ (9154)
66 somatoform disorders/ or body dysmorphic disorder/ or hypochondriasis/ or neurasthenia/ or neurodermatitis/ or somatization disorder/ or somatoform pain disorder/ (10708)
67 conversion disorder/ or hysterical paralysis/ or hysterical vision disturbances/ or pseudocyesis/ (1177)
68 somatization/ (2101)
69 hysteria/ or mass hysteria/ (2002)
70 hysterical paralysis/ (47)
71 histrionic personality disorder/ (377)
72 malingering/ (2022)
73 factitious disorders/ or Munchausen Syndrome by Proxy/ or Munchausen Syndrome/ (765)
74 chronic fatigue syndrome/ (1764)
75 compulsions/ or repetition compulsion/ (2263)
76 obsessions/ (1653)
77 obsessive compulsive personality disorder/ (546)
78 Trichotillomania/ (810)
79 gambling/ or pathological gambling/ (6587)
80 sexual function disturbances/ or dyspareunia/ or erectile dysfunction/ or female sexual dysfunction/ or inhibited sexual desire/ or premature ejaculation/ or vaginismus/ (8377)
81 premenstrual dysphoric disorder/ (422)
82 mental health program evaluation.sh. (1985)
83 or/34-82 (1063831)
84 11 and 33 and 83 (1272)
85 ("2012" or "2013" or "2014" or "2015" or "2016" or "2017").yr. (970115)

The Cochrane Library (CDSR, DARE, HTA, NHS-EED)

Issue 4, 2017

Last Saved: 05/04/2017

- #1 MeSH descriptor: [Computer Communication Networks] this term only
- #2 MeSH descriptor: [Internet] explode all trees
- #3 MeSH descriptor: [Cell Phones] explode all trees
- #4 MeSH descriptor: [Videoconferencing] explode all trees
- #5 MeSH descriptor: [Wireless Technology] 1 tree(s) exploded
- #6 (telecomm* or tele-comm*):ti,ab,kw (Word variations have been searched)
- #7 MeSH descriptor: [Telemedicine] this term only
- #8 ("technology based" or ((technology or technologies) near (deliver* or wearable or information or communication* or mood or mental or psychiatr*)):ti,ab,kw (Word variations have been searched)
- #9 digital:ti,ab,kw (Word variations have been searched)
- #10 eLearning or "blended learning":ti,ab,kw (Word variations have been searched)
- #11 gaming or gamification or smartwatch* or "wearable device*" or wearables or videogame or "video game*" or videoconferenc* or "video conferenc*":ti,ab,kw (Word variations have been searched)
- #12 (synchronous or asynchronous or (electronic near/3 deliver*)):ti,ab,kw (Word variations have been searched)
- #13 "artificial intelligen*":ti,ab,kw (Word variations have been searched)
- #14 ("Beat* the Blues" or "Blues Begone" or "blended CBT" or bCBT or b-CBT or BluesBegone or BounceBackNow or "Bounce Back Now" or BrainMaster or "Brain Master" or BrainGame or "Brain Game" or BRAVEOnline or BRAVE-online or "Brave for Teen*" or "Brave for Child*" or caCCBT or CaptainsLog or "Captains Log" or CatchIT or Catch-IT or CATTs or "Camp Cope A-Lot" or CogMed or "Cool Teens" or ecompared or e-compared or FindMe or "Glasgow Steps" or GlasgowSteps or GripOpJeDip or "Grip Op Je Dip" or Interapy or MasterYourMoodOnline or "Master Your Mood" or Mindcheck* or MindReading or "Mind Reading" or MobileType or Mobilyze or "Mood Gym" or Moodhelper or "Mood Helper" or NetCope or "Net Cope" or OCFighter or OC-Fighter or PlayAttention or "Play Attention" or Pratenonline or "Praten Online" or RoboMemo or SALUDBN or "SALUD BN" or SmartBrain or "Smart Brain" or SPARX or StressBusters or "Stress Busters" or Stresspac or StudentBodies or "Student Bodies" or "The Journey" or ThisWayUp or "This-Way-Up"):ti,ab,kw (Word variations have been searched)
- #15 "The Journey" or "Think Feel Do" or Bebo or Chatbot or Chat-bot or "Club Penguin" or Facebook or Franktown or Friendster or Habbo or Jabbersmack or hi5 or iTwixie or MySpace or Orkut or "Sweety High" or Kidzworld or Tumblr or Twitter or "Sina Weibo" or Yoursphere or "YouTube":ti,ab,kw (Word variations have been searched)
- #16 android or app or apps or blog* or cCBT or c-CBT or CD-ROM or "cell phone" or cellphone or "chat room" or computer* or cyber* or "digital technolog*" or "digital media*" or DVD or eHealth or e-health or "electronic health" or e-mail* or email* or e-Portal or ePortal or ePsych* or e-Psych* or eTherap* or e-therap* or forum* or gaming or iCBT or i-CBT or "information technolog*" or "instant messag*" or messaging or internet* or ipad or i-pad or iphone or i-phone or ipod or i-pod or podcast or "smart phone" or smartphone or "social network* site*" or "social networking" or mHealth or m-health or mobile or multi-media or multimedia or online* or on-line or "personal digital assistant" or PDA or SMS or "social medi*" or software or telecomm* or telehealth* or telemed* or telemonitor* or telepsych* or teletherap* or tele-health* or tele-med* or tele-monitor* or tele-psych* or tele-therap* or "text messag*" or texting or virtual* or web* or WWW:ti,ab,kw (Word variations have been searched)
- #17 (#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16)
- #18 MeSH descriptor: [Mental Disorders] explode all trees
- #19 MeSH descriptor: [Mental Health] this term only
- #20 MeSH descriptor: [Mental Health Services] explode all trees

#21 (psychiatr* or psychotherap* or mental or "anxiety disorder*" or agoraphobi* or astheni* or neurotic or neuros* or ADNOS or obsess* or compulsi* or hoarding or panic or phobi* or agoraphobi* or "social anxiety" or "school refusal" or bipolar or "impulse control" or impulsive or "conduct disorder*" or firesetting or fire-setting or gambling or gambler* or trichotillomani* or "dissociative disorder*" or "personality disorder*" or BPD or "eating disorder*" or "anorexia nervosa" or binge-eating or binging or bulimi* or EDNOS or "female athlete triad syndrome" or pica or coprophagi* or mood or depressive or depression or dysthymi* or dysphori* or "seasonal affective disorder*" or cyclothymi* or "neurocognitive disorder*" or "perceptual disorders*" or "attention deficit" or ADHD or hyperactivity or "disruptive behavi*" or "pervasive development disorder*" or Asperger* or autism or autistic or mutism or "attachment disorder*" or schizo* or "tic disorder*" or Tourette* or paraphili* or exhibitionism or fetishis* or masochis* or paedophili* or pedophili* or sadis* or transvesti* or voyeuris* or hysteri* or paranoi* or passive-aggressive or psychotic or psychos* or "affective disorder*" or ((substance or drug) next abus*) or SUD* or addiction or addictive or ((alcohol or tobacco or drug or marijuana or opioid or heroin or morphine) next (user* abuse* or dependen*)) or "marijuana smoking" or "binge drink*" or dyspareunia* or vaginismus or "sleep disorder*" or insomnia* or dyssomni* or "sleep deprivation" or "jet lag" or somnolence or parasomni* or dystoni* or "night terror*" or nightmare* or somnambulism* or somatoform or somatic or psychosomatic or "medically unexplained" or MUPS or "body dysmorphi*" or "conversion disorder*" or "factitious disorder*" or munchausen or hypochondri* or "health anxiety" or neurastheni* or (psychological nextj (trauma or stress*)) or "adjustment disorder*" or "acute stress" or "stress disorder*" or PTSD or ((post-trauma* or posttrauma*) next stress*) or "combat disorder*" or catatoni* or delusion* or depersonalization or malingering or stalking or psychogenic or (self next (injur* or harm or mutilat*)) or suicide* or "harm reduction" or risk-taking or "social adjustment"):ti,ab,kw (Word variations have been searched)

#22 (#18 or #19 or #20 or #21)

#23 #17 and #22

Note. For the CDSR search, lines #16 and #21 were limited to title words only.

Other Review Databases:

A series of specific (pragmatic) searches were conducted on the following databases due to limitations in the search functionality and idiosyncrasies of each platform. The search terms used were generally the most frequently occurring words or top level terms for this topic.

Epistemonikos <https://www.epistemonikos.org>

2017/04/06 Search n=335, results manually screened, n=106

advanced_title_en:(computerized or computerised or internet or web based or digital or eHealth or mHealth or online or telemedicine or telepsychiatry or technology or technologies or social networks or social networking or messaging or texting or apps or smartphone or smartphones or mobile or telecommunications or virtual or videoconferencing or multimedia or gaming or gamification)) AND (advanced_title_en:(mental or psychiatric or psychotherapy) or advanced_abstract_en:(mental or psychiatric or psychotherapy)) [Filters: protocol=no, classification=systematic-review, min_year=2012, systematic_review_type=sri, max_year=2017]

Health Evidence www.healthevidence.org

Accessed 6 April 2017

(computerized or computerised or internet or "web based" or digital or eHealth or mHealth or online or telemedicine or telepsychiatry or technology or technologies or self-help or self-help)

AND Limit:

- Date = Published from 2012 to 2017
- Review Quality Rating = Strong (8 to 10 / 10), Moderate (5 to 7 / 10)
- Review Type = Meta-analysis, Systematic review of reviews
- Intervention Delivery Method = Internet, Mobile Phone
- Topic Area = Addiction/Substance Use, Addiction/Substance Use -> Alcohol Abuse/Use, Addiction/Substance Use -> Drug Abuse/Use, Addiction/Substance Use -> Smoking Cessation/Tobacco Use, Mental Health n=31

Use, Addiction/Substance Use -> Drug Abuse/Use, Addiction/Substance Use -> Smoking Cessation/Tobacco Use, Mental Health n=31

DoPHER (Database of promoting health effectiveness reviews) <http://eppi.ioe.ac.uk/webdatabases/Search.aspx>

Accessed via EPPI Centre website on 6 April 2017

Freetext (Title) Search n=94 (manually screened, n=49)

1. "computerized" or "computerised" or "digital" or "internet" or "online" or "technology" or "technologies" or "telemedicine" or "telepsychiatry" or "telecommunications" or "smartphone"
2. "gaming" or "gamification" or "virtual reality" or "videoconferencing"
3. "web based"
4. 1 or 2 or 3

PROSPERO <http://www.crd.york.ac.uk/prospero/search.asp>

Accessed 6 April 2017

45 records found for (((computerized or computerised or internet or "web based" or digital or eHealth or mHealth or online or telemedicine or telepsychiatry or technology or technologies or self-help or self-help or smartphone or smartphones or apps or gaming or gamification or "virtual reality") AND (mental or psychiatric or psychotherapy or psychotherapies or iCBT or cCBT or anxiety or depression or depressed or depressive or "eating disorders" or anorexia or anorexics or bulimia or bulimics or "binge eating" or "binge eaters" or "bipolar disorder" or schizoaffective or schizophrenia or alcohol or "binge drinking" or "drug abuse" or "substance use" or SUDs or suicide or suicidal or PTSD or post-traumatic or posttraumatic or obsessive or compulsive or "social phobia" or phobias or alcohol))) :TI

Summary of search results

Date of search: 5 April 2017

1. Bibliographic databases:

- MEDLINE, n=548
- Embase, n=806
- PsycINFO, n=668

2. Cochrane Library:

- CDSR, n=27
- DARE, n=134
- HTA, n=50
- NHS-EED, n=82
- Other: 2 unpublished CCMD Reviews

3. Other Review databases:

- Epistemonikos, n=106
- Health Evidence, n=31
- DoPHER, n=49
- PROSPERO, n=45

Total=2548

After de-duplication, n=1772