

## Multimedia Appendix 1: Search strategy

<b>Medline</b>
(Biomedical technology/or “mobile phone technology”.tw /or ehealth.tw /or mhealth.tw /or “mobile app\$1”.tw /or Internet/or "smart phone*".tw/ or “smartphone*”.tw/or “Mobile phone*”.tw/or handheld/software/or “mobile application”.tw/or Cell phones/or computer handheld /or “mobile device*”/or “iphone”.tw/or “ipad”.tw/or Medical informatics application/ “Medical informatics application”.tw /or” Android”.tw/or “tablet computer”.tw) <b>and</b> (Health behavior/ or patient compliance /or self-examination/ or tobacco use cessation /or treatment refusal/ or /illness behaviour or /“behavior?r change”.tw
Limits: English, humans and year: January 1, 2010 - June 1, 2015
<b>Embase:</b>
(“android”.mp. or “mhealth”.mp. or “tablet computer”.mp. or “ipad”.mp. or “ipod” .mp. or “mobile phone”/exp or “internet” /exp or “telehealth”/exp or “smartphone”.mp. or “iphone” .mp.or “mobile papplication” /exp or “medical informatics application” .mp.or “ mobile technology”.mp.) <b>and</b> [“behavior change”/exp and “intervention”.mp.]
Limits: English, humans and year: January 1, 2010 - June 1, 2015
<b>PsycINFO</b>
(Cellular phones/or cell phones/or mobile phones/mobile devices/or telephone systems/or “mobile phone”.tw/or Biotechnology /or information technology/or “mobile device*”.tw/or Telemedicine/or learning/or mobile application*.tw /or “Medical informatics application*”.tw /or Health care delivery/or health promotion/or healthcare service/ “mhealth”.tw /or Health education/”ehealth”.tw /or “android”.tw /or Online therapy/or smartphone*.tw/or smart phone*.tw /or Internet/or “mobile app\$1”.tw/ or “tablet*”.tw /or “personal digital assistant”.tw /or “ipad”.tw/or “iphone”.tw / <b>and</b> behavior change/ or lifestyle changes/or Behavior Modification/or "behavior?r* change*".tw.
Limited: English, year: January 1, 2010 - June 1, 2015, peer-reviewed journal human
<b>CINAHL:</b>
(MH "Behavioral Changes" /or MH "health behavior" /or TI "behavior change" /or AB "behavior change" ) <b>and</b> (MH "Mobile Phone"/or MH “Smartphone”/or TI smartphone /or AB smartphone /or MH "Cellular Phone"/or TI "cellular phone"/or AB "cellular phone" /or MH Software/ or TI software/or AB software/ or MH "Wireless Communications" /or TI "wireless communication"/ or AB "wireless communication"/ or MH "Preventive Health Care Methods"/or TI "Preventive Health Care Methods"/ or AB "Preventive Health Care Methods"/ or MH "Self Care Methods"/or AB "Self Care Methods" /or TI "Self Care Methods" /or MH

"Computers, Hand-Held"/or AB "Computers, Hand-Held"/or TI "Computers, Hand-Held" /or MH "Reminder Systems"/ or TI "Reminder Systems"/or AB "Reminder Systems" / or MH "Medical informatics"/ or AB "Medical informatics" / or TI "Medical informatics" / or MH "Information seeking behavior"/ AB "Information seeking behavior" / or TI "Information seeking behavior" / or MH "Health Promotion Methods"/ or AB "Health Promotion Methods"/ or TI "Health Promotion Methods" /or MH "Health education Methods"/ or AB "Health education Methods" / or TI "Health education Methods" / or (MH "Consumer Health Information"/ or AB "Consumer Health Information" / or TI "Consumer Health Information"/ or MH "Information Science" / or AB "Information Science"/ or TI "Information Science" / or MH "Health Care Industry"/ or AB "Health Care Industry" / or TI "Health Care Industry"/ or MH "Health Care Delivery"/ or AB "Health Care Delivery"/ or TI "Health Care Delivery"

Limits: Peer Reviewed; English, year: January 1, 2010 - June 1, 2015

### **Eric**

(Handhelds/or ipods/ or mobile devices/ or mp3/ or personal digital assistants/ or Telecommunications/ or Educational Technology/"mobile phone\*".tw /or Electronic Learning/ or Technology Uses in Education/ "mobile device\*".tw./ or Internet /or information networks/or smart phone.tw/smartphone.tw/ or Health education/or health promotion/or mhealth.tw/ or Ehealth.tw/ or Information technology/or information technology.tw/ or "tablet\*".tw/ or "ipad".tw/ or "iphone".tw/ or "e-learning".tw/ or "mobility of learning".tw) **and** (Behavior Modification/ or Behavior Change/ "Behavior?r change\*".tw)

Limits: English, humans and year: January 1, 2010 - June 1, 2015

### **Pre-Medline**

□"smart phone\*".tw./or "smartphone\*".tw./or "ipad".tw./or "iphone".tw./ or "tablet\*".tw./or "mobile application\*".tw./or "mobile app\$1".tw./or "ehealth".tw./or "mhealth".tw./or "e-learning".tw./or "medical informatics application\*".tw./or "health care intervention".tw./or "app\$1".tw/ or "behavio?r therapy".tw.□**and** ("behavio?r\* change\*".tw. /or "health behavio?r".tw).

Limits: English, humans and year: January 1, 2010 - June 1, 2015

### **Health Technology Assessment**

(Technology.tw/or Computer Communication Networks/ or Telecommunications/ or Information Systems/or Computers, handheld /or health promotion /or software /or "mobile app\*".tw /or delivery of health care /or health personnel /or "health care intervention".tw) **and** (behavior?r\* change\*.tw)

Limits: English, humans and year: January 1, 2010 - June 1, 2015