

SUPPLEMENT 1. SEARCH STRATEGY

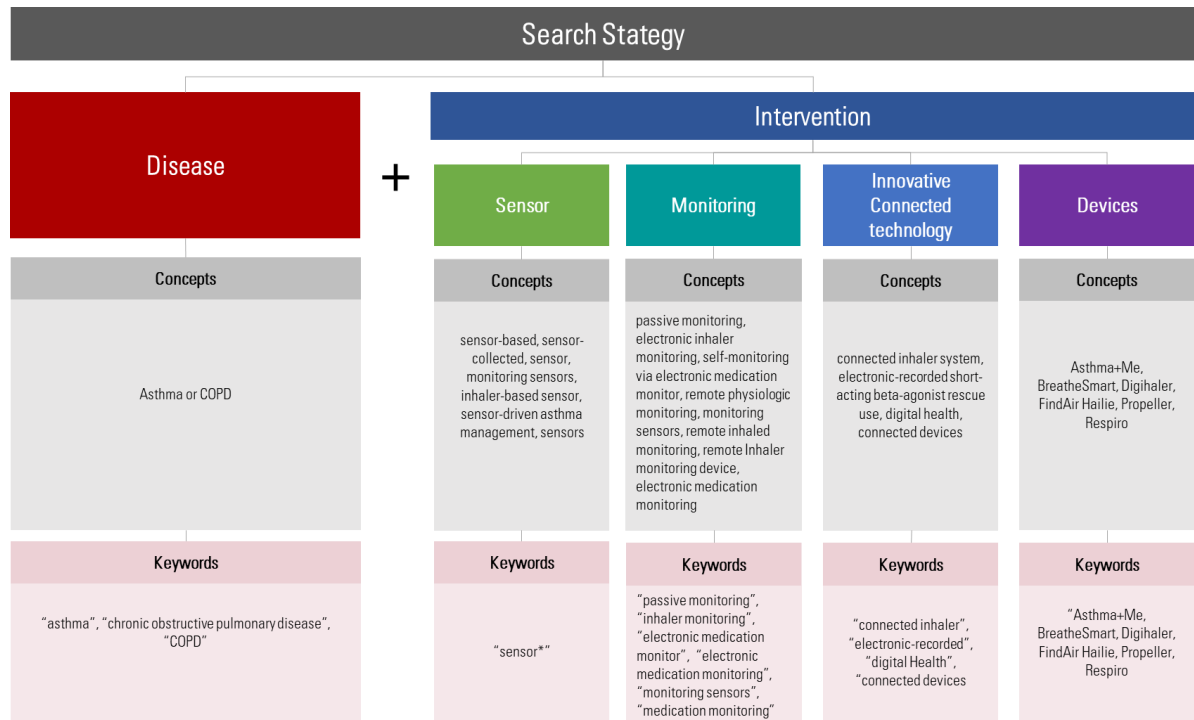


Figure. Search strategy summary

1. PUBMED search (filter: abstract/title):

(asthma or copd or "chronic obstructive pulmonary disease")

AND

(sensor* OR "passive monitoring" OR "inhaler monitoring" OR "electronic medication monitor" OR "electronic medication monitoring" OR "monitoring sensors" OR "medication monitoring" OR "Connected inhaler" OR "electronic-recorded" OR "digital Health" OR "Connected devices" OR "Asthma+Me" OR "BreatheSmart" OR "Digihaler" OR "FindAir Hailie" OR "Propeller" OR "respiro")

2. EMBASE search (filter: abstract/title/keywords):

(asthma or copd or "chronic obstructive pulmonary disease")

AND

(sensor* OR "passive monitoring" OR "inhaler monitoring" OR "electronic medication monitor" OR "electronic medication monitoring" OR "monitoring sensors" OR "medication monitoring" OR "Connected inhaler" OR "electronic-recorded" OR "digital Health" OR "Connected devices" OR "Asthma+Me" OR "BreatheSmart" OR "Digihaler" OR "FindAir Hailie" OR "Propeller" OR "respiro")

3. WEB OF SCIENCE search (filter: abstract/title):

(asthma or copd or "chronic obstructive pulmonary disease")

AND

(sensor* OR "passive monitoring" OR "inhaler monitoring" OR "electronic medication monitor" OR "electronic medication monitoring" OR "monitoring sensors" OR "medication monitoring" OR "Connected inhaler" OR "electronic-recorded" OR "digital Health" OR "Connected devices" OR "Asthma+Me" OR "BreatheSmart" OR "Digihaler" OR "FindAir Hailie" OR "Propeller" OR "respiro")

4. SCOPUS search (filter: title/abstract/keywords):

(asthma or copd or "chronic obstructive pulmonary disease")

AND

(sensor* OR "passive monitoring" OR "inhaler monitoring" OR "electronic medication monitor" OR "electronic medication monitoring" OR "monitoring sensors" OR "medication monitoring" OR "Connected inhaler" OR "electronic-recorded" OR "digital Health" OR "Connected devices" OR "Asthma+Me" OR "BreatheSmart" OR "Digihaler" OR "FindAir Hailie" OR "Propeller" OR "respiro")

5. COCHRANE search (filter: title/abstract/keywords):

(asthma or copd or "chronic obstructive pulmonary disease")

AND

(sensor* OR "passive monitoring" OR "inhaler monitoring" OR "electronic medication monitor" OR "electronic medication monitoring" OR "monitoring sensors" OR "medication monitoring" OR "Connected inhaler" OR "electronic-recorded" OR "digital Health" OR "Connected devices" OR "Asthma+Me" OR "BreatheSmart" OR "Digihaler" OR "FindAir Hailie" OR "Propeller" OR "respiro")

ADDITIONAL SEARCH

An additional search was performed including cites in reviews found in the previous search, citation examination of the selected articles and in the websites Digihaler® (www.digihalerhcp.com), HeroTracker® (www.coherohealth.com), Respiro Amiko® (www.amiko.io), CapMedic® (www.capmedicinhaler.com), Turbuplus™ (www.turbuplusinfo.co.uk), Turbuplus™ (www.turbuplusinfo.co.uk), Propeller Health® (www.propellerhealth.com), INCA™ (www.incadevice.com), Hailie® (www.hailie.com)