

## Appendix 1: Search strategy

Search terms used for each database on on 30 October 2017.

### PubMed

```
(
  "Video games"[mh] OR
  "serious game"[tiab] OR "serious games"[tiab] or "serious gaming"[tiab] OR
  "video game"[tiab] OR "video games"[tiab] OR "video gaming"[tiab] OR
  "virtual game"[tiab] OR "virtual games"[tiab] OR "virtual gaming"[tiab] OR
  "computer game"[tiab] OR "computer games"[tiab] OR "computer gaming"[tiab]
OR
  "digital game"[tiab] OR "digital games"[tiab] OR "digital gaming"[tiab] OR
  "mobile game"[tiab] OR "mobile games"[tiab] OR "mobile gaming"[tiab] OR
  videogame[tiab] OR videogames[tiab] OR videogaming[tiab] OR
  exergame[tiab] OR exergames[tiab] OR exergaming[tiab] OR
  gamification[tiab] OR gamified[tiab] OR gamify[tiab] OR
  xbox[tiab] OR nintendo[tiab] OR
  ( console[tiab] OR "virtual reality"[tiab] AND (game[tiab] OR games[tiab] OR
  gaming[tiab]))
)
AND
(
  "Respiratory Tract Diseases"[mh] OR
  lung[tiab] OR respiratory[tiab] OR pulmonary[tiab] OR
  airway[tiab] OR alveol*[tiab] OR apnea*[tiab] OR apnoea*[tiab] OR
  "cystic fibrosis"[tiab] OR asthma*[tiab] OR antiasthma*[tiab] OR COPD[tiab] OR
  bronchi*[tiab] OR bronchospas*[tiab] OR bronchoconstrict*[tiab] OR
  bronchoect*[tiab] OR
  bronchopulmon*[tiab] OR emphysem*[tiab] OR pneumon*[tiab]
)
)
```

### Scopus

```
TITLE-ABS-KEY(
(
  ((serious OR video OR virtual OR computer OR digital OR mobile) pre/2
  (game OR gaming OR games))
  OR videogame OR videogames OR videogaming OR exergame OR exergames
OR exergaming OR
  gamification OR gamified OR gamify OR
  xbox* OR nintendo* OR
  (console OR "virtual reality" AND (game OR games OR gaming))
)
AND
(
  lung* OR respiratory OR pulmonary OR
  airway OR alveol* OR apnea* OR apnoea* OR
  "cystic fibrosis" OR asthma* OR antiasthma* OR COPD OR

```

bronchi\* OR bronchospas\* OR bronchoconstrict\* OR bronchoect\* OR  
bronchopulmon\* OR emphysem\* OR pneumon\*

)  
)

## Web of Science

TS=(

(  
"serious game" OR "serious games" or "serious gaming" OR  
"video game" OR "video games" OR "video gaming" OR  
"virtual game" OR "virtual games" OR "virtual gaming" OR  
"computer game" OR "computer games" OR "computer gaming" OR  
"digital game" OR "digital games" OR "digital gaming" OR  
"mobile game" OR "mobile games" OR "mobile gaming" OR  
videogame OR videogames OR videogaming OR  
exergame OR exergames OR exergaming OR  
gamification OR gamified OR gamify OR  
xbox OR nintendo OR  
( console OR "virtual reality" AND (game OR games OR gaming ) )  
)

AND

(  
lung\* OR respiratory OR pulmonary OR  
airway OR alveol\* OR apnea\* OR apnoea\* OR  
"cystic fibrosis" OR asthma\* OR antiasthma\* OR COPD OR  
bronchi\* OR bronchospas\* OR bronchoconstrict\* OR bronchoect\* OR  
bronchopulmon\* OR emphysem\* OR pneumon\*  
)  
)

## EMBASE

(  
'video game'/exp OR  
'serious game':ab,ti OR 'serious games':ab,ti or 'serious gaming':ab,ti OR  
'video game':ab,ti OR 'video games':ab,ti OR 'video gaming':ab,ti OR  
'virtual game':ab,ti OR 'virtual games':ab,ti OR 'virtual gaming':ab,ti OR  
'computer game':ab,ti OR 'computer games':ab,ti OR 'computer gaming':ab,ti OR  
'digital game':ab,ti OR 'digital games':ab,ti OR 'digital gaming':ab,ti OR  
'mobile game':ab,ti OR 'mobile games':ab,ti OR 'mobile gaming':ab,ti OR  
videogame:ab,ti OR videogames:ab,ti OR videogaming:ab,ti OR  
exergame:ab,ti OR exergames:ab,ti OR exergaming:ab,ti OR  
gamification:ab,ti OR gamified:ab,ti OR gamify:ab,ti OR  
xbox:ab,ti OR nintendo:ab,ti OR  
( console:ab,ti OR 'virtual reality':ab,ti AND (game:ab,ti OR games:ab,ti OR  
gaming:ab,ti) )  
)

AND

(  
'respiratory tract disease'/exp OR

lung:ab,ti OR respiratory:ab,ti OR pulmonary:ab,ti OR  
airway:ab,ti OR alveol\*:ab,ti OR apnea\*:ab,ti OR apnoea\*:ab,ti OR  
'cystic fibrosis':ab,ti OR asthma\*:ab,ti OR antiasthma\*:ab,ti OR COPD:ab,ti OR  
bronchi\*:ab,ti OR bronchospas\*:ab,ti OR bronchoconstrict\*:ab,ti OR  
bronchoect\*:ab,ti OR  
bronchopulmon\*:ab,ti OR emphysem\*:ab,ti OR pneumon\*:ab,ti  
)

## CINAHL

(  
([MH] "video games") OR TX  
"serious game" OR TX "serious games" OR TX "serious gaming" OR TX  
"video game" OR TX "video games" OR TX "video gaming" OR TX  
"virtual game" OR TX "virtual games" OR TX "virtual gaming" OR TX  
"computer game" OR TX "computer games" OR TX "computer gaming" OR TX  
"digital game" OR TX "digital games" OR TX "digital gaming" OR TX  
"mobile game" OR TX "mobile games" OR TX "mobile gaming" OR TX  
videogame OR TX videogames OR TX videogaming OR TX  
exergame OR TX exergames OR TX exergaming OR TX  
gamification OR TX gamified OR TX gamify OR TX  
xbox OR TX nintendo OR TX  
(TX console OR TX "virtual reality" AND (TX game OR TX games OR TX gaming)  
)  
)  
AND  
(  
(MH "Respiratory Tract Diseases") OR TX  
lung OR TX respiratory OR TX pulmonary OR TX  
airway OR TX alveol\* OR TX apnea\* OR TX apnoea\* OR TX  
"cystic fibrosis" OR TX asthma\* OR TX antiasthma\* OR TX COPD OR TX  
bronchi\* OR TX bronchospas\* OR TX bronchoconstrict\* OR TX bronchoect\* OR  
TX  
bronchopulmon\* OR TX emphysem\* OR TX pneumon\*  
)

## IEEE Xplore

(  
"Index Terms":.QT.Video games.QT. OR "Index Terms":Games OR "Metadata":game  
OR "Metadata":gamification  
)  
AND  
(  
"Index Terms":lungs OR "Metadata":lung\* OR "Metadata":respiratory OR  
"Metadata":pulmonary OR "Metadata":airway OR "Metadata":bronchi\* OR  
"Metadata":broncho\* OR "Metadata":.QT.cystic fibrosis.QT. OR "Metadata":asthma\*  
)