

## Supplemental file 2: Search strategy

### SCOPUS:

TITLE-ABS-KEY ( ( pedometer\* OR "activity monitor\*" OR fitbit OR "activity track\*" ) OR ( ( "physical activity" OR "physical behavior" OR sedentary OR sitting OR walk\* OR steps ) AND ( monitor\* OR track\* OR smartwatch\* OR wearable\* OR smartphone\* ) ) AND randomized AND ( alone OR plus OR added OR "active control" OR "three arm\*" OR "three group\*" OR "or without" OR "and without" ) ) AND NOT TITLE ( protocol OR review OR meta-analysis )

Limit to: Article, Journal, English

### PUBMED:

( ( pedometer\* [Title/Abstract] OR "activity monitor\*" [Title/Abstract] OR fitbit [Title/Abstract] OR "activity track\*" [Title/Abstract] ) OR ( ( "physical activity" [Title/Abstract] OR "physical behavior" [Title/Abstract] OR sedentary [Title/Abstract] OR sitting [Title/Abstract] OR walk\* [Title/Abstract] OR steps [Title/Abstract] ) AND ( monitor\* [Title/Abstract] OR track\* [Title/Abstract] OR smartwatch\* [Title/Abstract] OR wearable\* [Title/Abstract] OR smartphone\* [Title/Abstract] ) ) AND randomized [Title/Abstract] AND ( alone [Title/Abstract] OR plus [Title/Abstract] OR added [Title/Abstract] OR "active control" [Title/Abstract] OR "three arm\*" [Title/Abstract] OR "three group\*" [Title/Abstract] ) ) NOT ( protocol [Title] OR review [Title] OR meta-analysis [Title] )

Limit to: Journal Article, Humans, English

### DISCUS:

(AB ( pedometer\* OR "activity monitor\*" OR fitbit OR "activity track\*" ) OR AB ( "physical activity" OR "physical behavior" OR sedentary OR sitting OR walk\* OR steps ) AND AB ( monitor\* OR track\* OR smartwatch\* OR wearable\* OR smartphone\* )) AND (AB randomized OR TI randomized) AND AB ( alone OR plus OR added OR "active control" OR "three arm\*" OR "three group\*" OR "or without" OR "and without" ) NOT TI ( protocol OR review OR meta-analysis )

Expanders: Apply related words, Apply equivalent subjects

Limiters: English, Academic Journal, Article

### ProQUEST:

((ab((pedometer\* OR "activity monitor\*" OR fitbit OR "activity track\*")) OR (ab(("physical activity" OR "physical behavior" OR sedentary OR sitting OR walk\* OR steps))) AND ab((monitor\* OR track\* OR smartwatch\* OR wearable\* OR smartphone\*))) AND (ab((alone OR plus OR added OR "active control" OR "three arm\*" OR "three group\*" OR "or without" OR "and without"))) AND ab(randomized))) NOT ti(protocol OR review OR meta-analysis)

Limit to: Scholarly journals, Article, English

### WoS:

((AB= ( "physical activity" OR "physical behavior" OR sedentary OR sitting OR walk\* OR steps )

AND AB=( monitor\* OR track\* OR smartwatch\* OR wearable\* OR smartphone\* ) OR  
(AB=(pedometer\* OR "activity monitor\*" OR fitbit OR "activity track\*" ))) AND  
((AB=randomized OR TI=randomized) AND AB=(alone OR plus OR added OR "active control"  
OR "three arm\*" OR "three group\*" OR "or without" OR "and without") NOT TI=(protocol  
OR review OR meta-analysis))  
Limit to: English, Article