

## Supplement 2. Search strategy used in PubMed, Web of Science, and SPORTDiscus

### PubMed

"Motor Activity"[Mesh:NoExp] OR "Exercise"[Mesh] OR "Sedentary Behavior"[Mesh] OR "physical activit\*" [Title/Abstract] OR "physical behav\*" [Title/Abstract] OR "exercise"[Title/Abstract] OR "sedentary"[Title/Abstract] OR "steps"[Title/Abstract]

AND

"Accelerometry"[Mesh] OR "Fitness Trackers"[Mesh] OR acceleromet\*[Title/Abstract] OR fitness track\*[Title/Abstract] OR activity monitor\*[Title/Abstract] OR motion sensor\*[Title/Abstract] OR "device-based"[Title/Abstract] OR "ActiGraph"[Title/Abstract] OR "Actical"[Title/Abstract] OR "Sensewear"[Title/Abstract] OR "Actiband"[Title/Abstract] OR "Actiwatch"[Title/Abstract] OR "FitBit"[Title/Abstract] OR "Garmin"[Title/Abstract] OR "Apple Watch"[Title/Abstract] OR "ActivPAL"[Title/Abstract] OR "Axivity"[Title/Abstract] OR "GeneActiv"[Title/Abstract]

AND

"Cohort Studies"[Mesh:NoExp] OR "Observation"[Mesh] OR "Observational Study"[Publication Type] OR "Observational Studies as Topic"[Mesh] OR cohort\*[Title/Abstract] OR "surveillance"[Title/Abstract] OR "cross-sectional" [Title/Abstract] OR observation\*[Title/Abstract] OR "Survey" [Title/Abstract]

NOT

"Animals"[Mesh] NOT "Humans"[Mesh] "Randomized Controlled Trial" [Title/Abstract] OR "RCT" [Title/Abstract] OR "intervention" [Title/Abstract]

Total - 4,676 (06/01/2021)

((((((((("Motor Activity"[MeSH Terms:noexp] OR "Exercise"[MeSH Terms]) OR "Sedentary Behavior"[MeSH Terms]) OR "physical activit\*" [Title/Abstract]) OR "physical behav\*" [Title/Abstract]) OR "Exercise"[Title/Abstract]) OR "sedentary"[Title/Abstract]) OR "steps"[Title/Abstract]) AND (((((((((((("Accelerometry"[MeSH Terms] OR "Fitness Trackers"[MeSH Terms]) OR "acceleromet\*" [Title/Abstract]) OR "fitness track\*" [Title/Abstract]) OR "activity monitor\*" [Title/Abstract]) OR "motion sensor\*" [Title/Abstract]) OR "device-based" [Title/Abstract]) OR "ActiGraph" [Title/Abstract]) OR "Actical" [Title/Abstract]) OR "Sensewear" [Title/Abstract]) OR "Actiwatch" [Title/Abstract]) OR "FitBit" [Title/Abstract]) OR "Garmin" [Title/Abstract]) OR "Apple Watch" [Title/Abstract]) OR "ActivPAL" [Title/Abstract]) OR "Axivity" [Title/Abstract]) OR "GeneActiv" [Title/Abstract])) AND (((((((("Cohort Studies"[MeSH Terms:noexp] OR "Observation"[MeSH Terms]) OR "Observational Study"[Publication Type]) OR "Observational Studies as Topic"[MeSH Terms]) OR "cohort\*" [Title/Abstract]) OR "surveillance" [Title/Abstract]) OR "cross-sectional" [Title/Abstract]) OR "observation\*" [Title/Abstract]) OR "Survey" [Title/Abstract])) NOT (((("Animals"[MeSH Terms] NOT "Humans"[MeSH Terms]) AND "Randomized Controlled Trial" [Title/Abstract]) OR "RCT" [Title/Abstract]) OR "intervention" [Title/Abstract])

## Web of Science

(TI=(“Sedentary Behavior” OR “Physical Activit\*” OR “Physical Behav\*” OR “Exerci\*” OR “sedentary” OR “steps”) OR AB=(“Sedentary Behavior” OR “Physical Activit\*” OR “Physical Behav\*” OR “Exerci\*” OR “sedentary” OR “steps”))

AND

(TI= (“Acceleromet\*” OR “Fitness Track\*” OR “Activity monitor”& OR “motion sensor\*” OR “device-based” OR “ActiGraph” OR “Actical” OR “sensewear” OR “Actiband” OR “Actiwatch” OR “FitBit” OR “Garmin” OR “Apple Watch” OR “ActivPal” OR “Axivity” OR “GeneActiv”) OR AB = (“Acceleromet\*” OR “Fitness Track\*” OR “Activity monitor”& OR “motion sensor\*” OR “device-based” OR “ActiGraph” OR “Actical” OR “sensewear” OR “Actiband” OR “Actiwatch” OR “FitBit” OR “Garmin” OR “Apple Watch” OR “ActivPal” OR “Axivity” OR “GeneActiv”))

AND

(TI = (“Cohort\*” OR “Observ\*” OR “surveil\*” OR “survey” OR “cross-sectional”) OR AB = (“Cohort\*” OR “Observ\*” OR “surveil\*” OR “survey” OR “cross-sectional”))

NOT

(TI= (“Randomized Controlled Trial” OR “RCT” OR “intervention” OR “child\*”) OR AB = (“Randomized Controlled Trial” OR “RCT” OR “intervention”))

(TI=(“Sedentary Behavior” OR “Physical Activit\*” OR “Physical Behav\*” OR “Exerci\*” OR “sedentary” OR “steps”) OR AB=(“Sedentary Behavior” OR “Physical Activit\*” OR “Physical Behav\*” OR “Exerci\*” OR “sedentary” OR “steps”)) AND (TI= (“Acceleromet\*” OR “Fitness Track\*” OR “Activity monitor”& OR “motion sensor\*” OR “device-based” OR “ActiGraph” OR “Actical” OR “sensewear” OR “Actiband” OR “Actiwatch” OR “Fit Bit” OR “Garmin” OR “Apple Watch” OR “ActivPal” OR “Axivity” OR “GeneActiv”) OR AB = (“Acceleromet\*” OR “Fitness Track\*” OR “Activity monitor”& OR “motion sensor\*” OR “device-based” OR “ActiGraph” OR “Actical” OR “sensewear” OR “Actiband” OR “Actiwatch” OR “Fit Bit” OR “Garmin” OR “Apple Watch” OR “ActivPal” OR “Axivity” OR “GeneActiv”)) AND (TI = (“Cohort\*” OR “Observ\*” OR “surveil\*” OR “survey” OR “cross-sectional”) OR AB = (“Cohort\*” OR “Observ\*” OR “surveil\*” OR “survey” OR “cross-sectional”)) NOT (TI= (“Randomized Controlled Trial” OR “RCT” OR “intervention” OR “child\*”) OR AB = (“Randomized Controlled Trial” OR “RCT” OR “intervention”))

Total – 3,821 06/01/2021

## SPORTDiscus

(DE "EXERCISE" OR "PHYSICAL activity") OR SU( "EXERCISE" OR "PHYSICAL activity") OR  
(AB("physical activit\*" OR "physical behav\*" OR "exercise" OR "sedentary" OR "steps")) OR  
(TI("physical activit\*" OR "physical behav\*" OR "exercise" OR "sedentary" OR "steps"))

AND

(DE " Accelerometry" OR " Fitness Trackers") OR SU( "Accelerometry" OR " Fitness Trackers")  
OR (AB("acceleromet\*" OR "fitness track\*" OR "activity monitor\*" OR "motion sensor\*" OR  
"device-based" OR "ActiGraph" OR "Actical" OR "Sensewear" OR "Actiband" OR "Actiwatch"  
OR "FitBit" or "Garmin" OR "Apple Watch" OR "ActivPAL" OR "Axivity" OR "GeneActiv")) OR  
(TI("acceleromet\*" OR "fitness track\*" OR "activity monitor\*" OR "motion sensor\*" OR "device-  
based" OR "ActiGraph" OR "Actical" OR "Sensewear" OR "Actiband" OR "Actiwatch" OR "FitBit"  
or "Garmin" OR "Apple Watch" OR "ActivPAL" OR "Axivity" OR "GeneActiv"))

AND

(DE "Cohort Studies" OR " Observation") OR SU( "Cohort Studies" OR " Observation") OR  
(AB("cohort\*" OR "surveillance" OR "cross-sectional" OR "observation\*" OR "survey")) OR  
(TI("cohort\*" OR "surveillance" OR "cross-sectional" OR "observation\*" OR "survey"))

NOT

(AB("Randomized Controlled Trial" OR "RCT" OR "intervention" OR "child\*")) OR  
(TI("Randomized Controlled Trial" OR "RCT" OR "intervention" OR "child\*"))

Total- 892 06/01/2021