## SUPPLEMENTARY MATERIALS

## Systematic search

We conducted a systematic review following the guidelines for Meta-Analyses and Systematic reviews for Observational Studies (1) and the PRISMA guidelines (2). The review protocol is registered with the PROSPERO database (PROSPERO 2018 CRD42018091808)

## Data sources

We performed a systematic search in five databases (PubMed, PsycINFO, Embase, Web of Science, Sport Discus) from database inception until July $31^{\text {st }}$ 2018 and updated the search until March $31^{\text {st }}$ 2020. The following list of search terms was used when searching for eligible articles; (\#1"physical activity" OR "physical activities" OR "physically active" OR "physical exercise" OR "exercise" OR "walk" AND \#2 "mortality" OR "mortalities" OR " death "OR "fatal" AND \#3 "accelerometer" OR "activity monitor"OR "motion sensor" OR "device-based" OR "Actigraph" OR "Actical" or "Sensewear" OR "Actiband" OR "Actiwatch"). We performed forward and backward tracking by examining the reference list of studies potentially eligible for inclusion.

## Study selection

Two authors (UE, JSS) independently screened all titles and abstracts. After exclusion of duplicates, one author (JSS) performed a full-text review and the final list of studies was discussed among the writing group. Inclusion criteria were; 1) prospective cohort studies that assessed sedentary time and physical activity by accelerometry; 2) had data on individual level exposure and outcome (all-cause mortality); 3) reported effect estimates as hazard ratios (HR), odds ratios (OR) or relative risk (RR) with $95 \%$ confidence intervals ( $95 \% \mathrm{Cl}$ ) for all-cause mortality; 4) were published in English or Scandinavian language. Due to the marked difference in output from accelerometers placed at different body sites (3), which precludes harmonisation of physical activity data, we excluded three studies (4-6) in which physical activity was assessed by monitors placed on the upper arm, wrist and thigh, respectively. One eligible study did not wish to participate in the harmonised meta-analysis (7). We have previously published the results for the separate dose-response associations between different
intensities of physical activity and sedentary time with all-cause mortality comprising eight of the studies included in this meta-analysis. The updated search identified one additional study eligible for inclusion (8).

## Data Extraction

One author (UE) extracted the following information from each eligible study: name of the first author; study location; source and number of participants; age of participants; number of men and women; years of follow-up; number of deaths from all causes; methods of case ascertainment; assessment details for physical activity and sedentary time; and covariates included in final, adjusted models. Data extraction variables were cross-checked by another author (JSS).

## Risk of Bias

Using the Newcastle-Ottawa quality assessment scale (9), two authors (UE, JT) independently assessed the studies, and any disagreements were resolved by consensus. This semi-quantitative scale assesses the quality for eight items across three domains (selection, comparability and exposure) using a star system, with a maximum of one star per item for high quality studies except for the comparability domain (two stars). Thus, the total score ranges from zero to nine. Further details of the quality rating are found below (Supplementary Table 4).

Supplementary tables

| Supplementary Table 1. Description of studies |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Study | Participants; number of cases; year of baseline assessment and follow-up years (median) | Case ascertainment | Accelerometer Device and <br> Method | Covariates adjusted for in final model |
| Walking Away from Type 2 Diabetes (WAT2D), England (10) | $\begin{aligned} & \text { 654; 26; } \\ & \text { 2010-11; } 5.7 \text { y } \end{aligned}$ | Office for National Statistics | Actigraph GT3X+ (right hip) | Age, sex, BMI, socioeconomic status |
| Reasons for Geographic and Racial Differences in Stroke (REGARDS); US (11) | $\begin{aligned} & 7866 ; 590 ; \\ & 2003-07 ; 5.3 \text { y } \end{aligned}$ | Review of death certificates, medical records, and administrative databases | Actical (right hip) | Age, sex, BMI, education, race, region of residence, season the accelerometer was worn, current smoking, alcohol use, diabetes, hypertension, dyslipidemia, estimated glomerular filtration rate, atrial fibrillation, history of coronary heart disease, and history of stroke |
| Sweden <br> Attitude Behaviour and Change study (ABC), Sweden (12) | $\begin{aligned} & \text { 834; 79; } \\ & \text { 2001-02; } 14.5 \text { y } \end{aligned}$ | National death register | Actigraph 7164 (lower back) | Age, sex, education, BMI, smoking, history of hypertension, heart disease, cancer, and diabetes |
| British Regional Heart Study (BRHS), UK (13) | $\begin{aligned} & 1412 ; 250 ; \\ & 2010-12 ; 6.0 \text { y } \end{aligned}$ | National Health Service central registers | Actigraph GT3X+ (right hip) | Age, BMI, Social class, season of accelerometer wear, region of residence, lives alone / with others, alcohol, smoking, sleep, locomotor disability, previous MI , stroke or heart failure |


| Women's Health Study (WHS), US (14) | $\begin{aligned} & \hline 16738 ; 504 ; \\ & 2011-17 ; 4.3 \text { y } \end{aligned}$ | Medical records, death certificates, or the National Death Index | Actigraph GT3X+ (right hip) | Age, income, BMI, smoking, alcohol, intakes of saturated fat, fibre, fruits, and vegetables, hormone therapy, parental history of myocardial infarction, family history of cancer, general health, history of cardiovascular disease, history of cancer, and cancer screening |
| :---: | :---: | :---: | :---: | :---: |
| Framingham Heart Study (FHS), US (16) | $\begin{aligned} & \hline 2621 ; 77 ; \\ & 2008-11 ; 4.0 \text { y } \end{aligned}$ | Medical records, death certificates | Actical (right hip) | Age, sex, education, BMI, ethnicity, smoking, self-reported health |
| National Health and Nutrition Examination Survey (NHANES), US (18) | $\begin{aligned} & \text { 4319; 1065; } \\ & 2003-06 ; 10.5 \text { y } \end{aligned}$ | National Death Index, National Center for Health Statistics | Actigraph 7164 (right hip) | Age, socioeconomic status, BMI, ethnicity, smoking, alcohol, mobility limitations, number of medical conditions (diabetes, congestive heart failure, coronary heart disease, angina pectoris, heart attack, stroke, cancer) |
| Norwegian <br> National <br> Physical <br> Activity <br> Survey 1 <br> (NNPAS) (17) | $\begin{aligned} & \hline 2284 ; 131 ; \\ & 2008-09 ; 8.9 \text { y } \end{aligned}$ | Death certificates, Norwegian death register | Actigraph GT1M (right hip) | Age, sex, education, BMI, smoking, alcohol, number of medical conditions (diabetes, coronary heart disease, angina pectoris, heart attack, stroke, cancer) |
| The European Prospective Investigation into Cancer and Nutrition (EPIC) <br> Norfolk, UK (9) | $\begin{aligned} & 7657 ; 721 ; \\ & 2004-16 ; 5.4 \text { y } \end{aligned}$ | Death certificates, Office for National Statistics | Actigraph GT1M and GT3X+ (harmonised; right hip) | Age, sex, education, BMI, social class, smoking, alcohol, diabetes, antihypertensive drugs, lipid lowering drugs, anti-depression drugs, cardiovascular disease, cancer, family history of disease (heart attack, stroke, diabetes, cancer) |

References to original studies within brackets (see reference list in main document)

Supplementary Table 2. Study specific medians (Interquartile range) of total physical activity, sedentary time and MVPA by tertiles.

|  | WAT2D | REGARDS* | ABC | BRHS | WHS | FHS* | NHANES | NNPAS | EPICNORFOLK | Median of medians** |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Physical Activity (CPM) |  |  |  |  |  |  |  |  |  |  |
| Low PA | $\begin{gathered} 169 \\ (131-200) \end{gathered}$ | $\begin{gathered} 35 \\ (15-50) \end{gathered}$ | $\begin{gathered} 201 \\ (167-246) \end{gathered}$ | $\begin{gathered} 85 \\ (61-106) \\ \hline \end{gathered}$ | $\begin{gathered} 126 \\ (99-147) \\ \hline \end{gathered}$ | $\begin{gathered} 60 \\ (28-92) \end{gathered}$ | $\begin{gathered} 138 \\ (102-171) \end{gathered}$ | $\begin{gathered} 200 \\ (153-232) \end{gathered}$ | $\begin{gathered} 131 \\ (99-157) \\ \hline \end{gathered}$ | 138 |
| Medium PA | $\begin{gathered} 272 \\ (248-304) \\ \hline \end{gathered}$ | $\begin{gathered} 74 \\ (50-98) \\ \hline \end{gathered}$ | $\begin{gathered} 316 \\ (296-346) \\ \hline \end{gathered}$ | $\begin{gathered} 166 \\ (142-188) \\ \hline \end{gathered}$ | $\begin{gathered} 205 \\ (185-226) \end{gathered}$ | $\begin{gathered} 115 \\ (86-144) \end{gathered}$ | $\begin{gathered} 251 \\ (223-277) \\ \hline \end{gathered}$ | $\begin{gathered} 309 \\ (286-338) \\ \hline \end{gathered}$ | $\begin{gathered} 225 \\ (204-248) \end{gathered}$ | 251 |
| High PA | $\begin{gathered} 439 \\ (373-503) \\ \hline \end{gathered}$ | $\begin{gathered} 147 \\ (77-217) \\ \hline \end{gathered}$ | $\begin{gathered} 465 \\ (413-546) \\ \hline \end{gathered}$ | $\begin{gathered} 287 \\ (244-356) \\ \hline \end{gathered}$ | $\begin{gathered} 313 \\ (277-371) \\ \hline \end{gathered}$ | $\begin{gathered} 200 \\ (111-289) \\ \hline \end{gathered}$ | $\begin{gathered} 396 \\ (347-478) \\ \hline \end{gathered}$ | $\begin{gathered} 444 \\ (401-523) \\ \hline \end{gathered}$ | $\begin{gathered} 345 \\ (307-410) \\ \hline \end{gathered}$ | 396 |
| Sedentary (hours/d) |  |  |  |  |  |  |  |  |  |  |
| Low sedentary | $\begin{gathered} 7.6 \\ (6.8-8.1) \end{gathered}$ | $\begin{gathered} 10.6 \\ (9.0-12.1) \end{gathered}$ | $\begin{gathered} 7.1 \\ (6.4-7.6) \end{gathered}$ | $\begin{gathered} 9.1 \\ (8.4-9.6) \end{gathered}$ | $\begin{gathered} 8.7 \\ (8.1-6.9) \end{gathered}$ | $\begin{gathered} 10.4 \\ (9.4-11.4) \\ \hline \end{gathered}$ | $\begin{gathered} 6.5 \\ (5.7-7.3) \end{gathered}$ | $\begin{gathered} 8.5 \\ (7.6-9.4) \end{gathered}$ | $\begin{gathered} 8.2 \\ (7.5-8.6) \end{gathered}$ | 8.5 |
| Medium sedentary | $\begin{gathered} 8.9 \\ (8.4-9.5) \end{gathered}$ | $\begin{gathered} 11.8 \\ (10.2-13.2) \end{gathered}$ | $\begin{gathered} 8.6 \\ (8.1-9.2) \end{gathered}$ | $\begin{gathered} 10.3 \\ (9.8-10.9) \end{gathered}$ | $\begin{gathered} 9.9 \\ (9.6-10.2) \end{gathered}$ | $\begin{array}{r} 11.6 \\ (11.0- \\ 12.9) \\ \hline \end{array}$ | $\begin{gathered} 8.6 \\ (7.9-9.2) \end{gathered}$ | $\begin{gathered} 9.3 \\ (8.6-10.1) \end{gathered}$ | $\begin{gathered} 9.4 \\ (9.1-9.7) \end{gathered}$ | 9.4 |
| High sedentary | $\begin{gathered} 10.2 \\ (9.4-10.8) \end{gathered}$ | $\begin{gathered} 12.4 \\ (10.8-14.0) \end{gathered}$ | $\begin{gathered} \hline 10.0 \\ (9.3-10.8) \end{gathered}$ | $\begin{gathered} 11.3 \\ (10.6 \\ 12.0) \end{gathered}$ | $\begin{gathered} \hline 11.2 \\ (10.8-11.8) \end{gathered}$ | $\begin{gathered} \hline 12.9 \\ (12.2- \\ 13.5) \\ \hline \end{gathered}$ | $\begin{gathered} 10.2 \\ (9.3-11.2) \end{gathered}$ | $\begin{gathered} 10.3 \\ (9.4-11.1) \end{gathered}$ | $\begin{gathered} 10.7 \\ (10.3-11.2) \end{gathered}$ | 10.7 |
| Sedentary (\% time) |  |  |  |  |  |  |  |  |  |  |
| Low sedentary | $\begin{gathered} 54 \\ (50-57) \\ \hline \end{gathered}$ | $\begin{gathered} 75 \\ (64-86) \\ \hline \end{gathered}$ | $\begin{gathered} 48 \\ (43-51) \end{gathered}$ | $\begin{gathered} 64 \\ (60-68) \\ \hline \end{gathered}$ | $\begin{gathered} 58 \\ (54-64) \\ \hline \end{gathered}$ | $\begin{gathered} 71 \\ (64-78) \\ \hline \end{gathered}$ | $\begin{gathered} 47 \\ (42-51) \end{gathered}$ | $\begin{gathered} 57 \\ (51-62) \\ \hline \end{gathered}$ | $\begin{gathered} 58 \\ (54-61) \\ \hline \end{gathered}$ | 58 |
| Medium sedentary | $\begin{gathered} 63 \\ (61-65) \\ \hline \end{gathered}$ | $\begin{gathered} 83 \\ (73-94) \end{gathered}$ | $\begin{gathered} 58 \\ (54-62) \\ \hline \end{gathered}$ | $\begin{gathered} 73 \\ (70-77) \end{gathered}$ | $\begin{gathered} 66 \\ (64-68) \\ \hline \end{gathered}$ | $\begin{gathered} 79 \\ (75-82) \end{gathered}$ | $\begin{gathered} 60 \\ (58-63) \\ \hline \end{gathered}$ | $\begin{gathered} 63 \\ (58-67) \\ \hline \end{gathered}$ | $\begin{gathered} 67 \\ (65-69) \\ \hline \end{gathered}$ | 66 |
| High sedentary | $\begin{gathered} 72 \\ (69-75) \\ \hline \end{gathered}$ | $\begin{gathered} 88 \\ (76-99) \\ \hline \end{gathered}$ | $\begin{gathered} 67 \\ (63-73) \end{gathered}$ | $\begin{gathered} 81 \\ (76-85) \\ \hline \end{gathered}$ | $\begin{gathered} 75 \\ (72-79) \\ \hline \end{gathered}$ | $\begin{gathered} 88 \\ (83-92) \\ \hline \end{gathered}$ | $\begin{gathered} 72 \\ (68-77) \end{gathered}$ | $\begin{gathered} 70 \\ (67-75) \end{gathered}$ | $\begin{gathered} 76 \\ (73-79) \\ \hline \end{gathered}$ | 75 |
| MVPA (min/d) |  |  |  |  |  |  |  |  |  |  |
| Low PA | $\begin{gathered} \hline 6.4 \\ (3.1-10.1) \\ \hline \end{gathered}$ | $\begin{gathered} 0 \\ (0-0.3) \end{gathered}$ | $\begin{gathered} 10.6 \\ (5.3-14.8) \\ \hline \end{gathered}$ | $\begin{gathered} 1.1 \\ (0.4-2.3) \end{gathered}$ | $\begin{gathered} 1.8 \\ (0.1-2.7) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9 \\ (0-3.5) \\ \hline \end{gathered}$ | $\begin{gathered} 2.3 \\ (1.1-3.7) \end{gathered}$ | $\begin{gathered} 12.4 \\ (6.1-20.6) \\ \hline \end{gathered}$ | $\begin{gathered} 7.7 \\ (4-12) \\ \hline \end{gathered}$ | 2.3 |
| Medium PA | $\begin{gathered} 20.8 \\ (16.4-24.6) \\ \hline \end{gathered}$ | $\begin{gathered} 2.2 \\ (0-4.7) \end{gathered}$ | $\begin{gathered} 27.0 \\ (22.4-32.6) \\ \hline \end{gathered}$ | $\begin{gathered} 9.3 \\ (6.7-13.0) \\ \hline \end{gathered}$ | $\begin{gathered} 9.0 \\ (0.6-11.7) \\ \hline \end{gathered}$ | $\begin{gathered} 9.7 \\ (4.4-14.1) \\ \hline \end{gathered}$ | $\begin{gathered} 11.2 \\ (8.3-15.3) \\ \hline \end{gathered}$ | $\begin{gathered} 31.0 \\ (23.4-39.1) \\ \hline \end{gathered}$ | $\begin{gathered} 24.8 \\ (20.0-29.7) \\ \hline \end{gathered}$ | 11.2 |
| High PA | $\begin{gathered} 48.1 \\ (37.3-64.1) \end{gathered}$ | $\begin{gathered} 16.4 \\ (0-33) \end{gathered}$ | $\begin{gathered} 52.2 \\ (43.2-65.6) \end{gathered}$ | $\begin{array}{r} \hline 30.6 \\ (22.9- \\ 43.0) \\ \hline \end{array}$ | $\begin{gathered} 28.8 \\ (19.8-39.6) \end{gathered}$ | $\begin{gathered} 28.1 \\ (8.8-38.7) \end{gathered}$ | $\begin{gathered} 34.3 \\ (26.1-48.4) \end{gathered}$ | $\begin{gathered} 56.3 \\ (43.4-71.9) \end{gathered}$ | $\begin{gathered} 51.6 \\ (42.1-67.0) \end{gathered}$ | 34.3 |
| MVPA (\% time) |  |  |  |  |  |  |  |  |  |  |


| Low PA | $\begin{gathered} 0.8 \\ (0.4-1.2) \\ \hline \end{gathered}$ | $\begin{gathered} 0.0 \\ (0-0.003) \end{gathered}$ | $\begin{gathered} 1.2 \\ (0.6-1.6) \end{gathered}$ | $\begin{gathered} 0.1 \\ (0.0-0.27) \end{gathered}$ | $\begin{gathered} 0.2 \\ (0.1-0.3) \end{gathered}$ | $\begin{gathered} 0.1 \\ (0-0.4) \end{gathered}$ | $\begin{gathered} 0.3 \\ (0.1-0.4) \end{gathered}$ | $\begin{gathered} 1.5 \\ (0.7-2.3) \end{gathered}$ | $\begin{gathered} 0.9 \\ (0.5-1.4) \end{gathered}$ | 0.3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Medium PA | $\begin{gathered} 2.4 \\ (2.0-2.90) \\ \hline \end{gathered}$ | $\begin{gathered} 0.3 \\ (0-0.6) \\ \hline \end{gathered}$ | $\begin{gathered} 3.0 \\ (2.5-3.6) \end{gathered}$ | $\begin{gathered} 1.1 \\ (0.8-1.5) \\ \hline \end{gathered}$ | $\begin{gathered} 1.0 \\ (0.7-1.3) \\ \hline \end{gathered}$ | $\begin{gathered} 1.1 \\ (0.5-1.6) \end{gathered}$ | $\begin{gathered} 1.3 \\ (1.0-1.8) \\ \hline \end{gathered}$ | $\begin{gathered} 3.5 \\ (2.7-4.4) \\ \hline \end{gathered}$ | $\begin{gathered} 2.9 \\ (2.4-3.5) \end{gathered}$ | 1.3 |
| High PA | $\begin{gathered} 5.8 \\ (4.5-7.4) \\ \hline \end{gathered}$ | $\begin{gathered} 1.9 \\ (0-3.9) \\ \hline \end{gathered}$ | $\begin{gathered} 5.8 \\ (4.8-7.3) \end{gathered}$ | $\begin{gathered} 3.6 \\ (2.7-5.1) \\ \hline \end{gathered}$ | $\begin{gathered} 3.2 \\ (2.2,4.4) \end{gathered}$ | $\begin{gathered} 3.2 \\ (1.0-4.4) \end{gathered}$ | $\begin{gathered} 4.0 \\ (3.0-5.7) \end{gathered}$ | $\begin{gathered} 6.2 \\ (4.9-7.9) \end{gathered}$ | $\begin{gathered} 5.9 \\ (4.9-7.7) \\ \hline \end{gathered}$ | 4.0 |

*Data based on Actical accelerometer; **median of medians based on Actigraph accelerometer (excluding REGARDS and FHS)

Supplementary Table 3. E-values (upper or lower $95 \% \mathrm{Cl}$ within brackets) for different combinations of time spent in MVPA and sedentary time with allcause mortality. Data are from the multivariate adjusted model (Figure 2d) ( $\mathrm{N}=42303,2508$ deaths)

|  | Low sedentary | Medium Sedentary | High Sedentary |
| :--- | :---: | :---: | :---: |
| High MVPA | REF | $1.62(1.51)$ | $2.10(1.68)$ |
| Medium MVPA | $1.27(1.80)$ | $1.91(1.01)$ | $2.67(1.61)$ |
| Low MVPA | $2.62(1.75)$ | $2.60(1.72)$ | $4.63(3.20)$ |

Supplementary Table 4. Quality assessment of studies included in the meta-analysis.

| Study | Selection |  |  |  | Comparability | Outcome |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Representativeness | Selection | Ascertainment Exposure | Outcome |  | Assessment | $\begin{aligned} & \text { Follow } \\ & \text { Up } \end{aligned}$ | Adequacy |
| WAT2D (10) | D | A* | A* | A* | A* ${ }^{\text {B }}$ | B* | A* | A* |
| REGARDS <br> (11) | C | A* | A* | A* | $A^{*} A^{*}$ | B* | A* | A* |
| ABC <br> (12) | B* | A* | A* | A* | A* ${ }^{\text {B }}$ | B* | A* | A* |
| BRHS <br> (13) | C | A* | A* | A* | $A^{*} A^{*}$ | B* | A* | A* |
| WHS <br> (14) | C | A* | A* | A* | $A^{*} \mathrm{~A}^{*}$ | B* | A* | A* |
| NHANES (16) | A* | A* | A* | A* | $A^{*} A^{*}$ | B* | A* | A* |
| Framingham (17) | B* | $A^{*}$ | A* | A* | $A^{*} A^{*}$ | B* | A* | A* |
| NPASS <br> (18) | A* | A* | A* | A* | $A^{*} \mathrm{~A}^{*}$ | B* | A* | A* |
| EPIC-Norfolk <br> (9) | B | A* | A* | A* | $A^{*} B^{*}$ | B* | $\mathrm{A}^{*}$ | A* |

For full details of the coding system (A to D) see
http://www.ohri.ca/programs/clinical epidemiology/nos manual.pdf
References to original studies within brackets (see reference list in main document)

Supplementary Figures


Supplementary figure 1. The joint association between between total physical activity and sedentary time and all-cause mortality. Analyses are adjusted for age and sex ( $n=44,370 ; 3451$ deaths).


Supplementary figure 2. The joint association between between total physical activity and sedentary time and all-cause mortality. Analyses are adjusted for age, sex, BMI and socio-economic position ( $n=42,420 ; 3137$ deaths).


Supplementary figure 3. The joint association between between total physical activity and sedentary time and all-cause mortality. Analyses are adjusted for age, sex, BMI, socio-economic position, smoking, presence of prevalent diseases or self-reported poor health, other putative confounding factors displayed in Supplementary Table 1 ( $n=42,203 ; 3074$ deaths).


Supplementary figure 4. The joint association between between moderate-to-vigorous-intensity physical activity and sedentary time and all-cause mortality. Analyses are adjusted for age and sex ( $n=44,370 ; 3451$ deaths).


Supplementary figure 5 . The joint association between between moderate-to-vigorous-intensity physical activity and sedentary time and all-cause mortality. Analyses are adjusted for age, sex, BMI and socio-economic position ( $n=42,420 ; 3137$ deaths).


Supplementary figure 6. The joint association between between moderate-to-vigorous-intensity physical activity and sedentary time and all-cause mortality. Analyses are adjusted for age, sex, BMI, socio-economic position, smoking, presence of prevalent diseases or self-reported poor health, other putative confounding factors displayed in Supplementary Table 1 ( $n=42,203 ; 3074$ deaths)

## Supplementary References

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