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Supplemental File 1: Search strategy

| | Medline | | Embase | | |
|------------|---------------------------------------|--|---|---------------------------------|--|
| Population | #1 women.mp. or Female/ | | #1 female/ or women.mp. | | |
| Exposure | #2 Diet, Mediterranean/ or Mediter | ranean diet.mp. or Mediterranean | #2 Mediterranean diet/ or Me | editerranean diet.mp. or | |
| | dietary pattern.mp. | | Mediterranean dietary pattern | n.mp. | |
| Outcome | #3 cardiovascular diseases/ or hear | t diseases/ or heart arrest/ or death, | #3 cardiovascular disease/ or | isch?emic heart disease.mp. or | |
| | sudden, cardiac/ or out-of-hospital | cardiac arrest/ or heart failure/ or | ischemic heart disease/ or ce | rebrovascular disease/ or brain | |
| | myocardial ischemia/ or acute coro | onary syndrome/ or angina, unstable/ | infarction/ or brain ischemia/ | or carotid artery disease/ | |
| | or coronary disease/ or coronary ar | tery disease/ or coronary stenosis/ or | #4 cardiovascular disease*.mp. or (Cardiovascular adj2 (event | | |
| | myocardial infarction/ or cerebrova | ascular disorders/ or brain ischemia/ | or events or risk)).mp. | | |
| | or brain infarction/ or ischemic atta | ack, transient/ or carotid artery | #5 all cause mortality/ or cardiovascular mortality/ or premature | | |
| | diseases/ or stroke/ or hemorrhagic | stroke/ or ischemic stroke/ | mortality/ | | |
| | #4 isch?emic heart disease.mp. or of | cardiovascular disease*.mp. or | | | |
| | (cardiovascular adj2 (event or even | nts or risk)).mp. | | | |
| | #5 mortality/ or "cause of death"/ o | or fatal outcome/ or mortality, | | | |
| | premature/ or survival rate/ | | | | |
| | #6 | #3 OR #4 OR #5 | #6 | #3 OR #4 OR #5 | |
| | #1 AND #2 AND #6 | | #1 AND #2 AND #6 | | |
| | Limits: English language; Publicat | ion period= "2003-Current" | Limits: English language; Publication period= "2003-Current" | | |

| | Cinahl | | Scopus | Web of Science |
|------------|---|------------------------|--|---------------------------------------|
| Population | #1 (MM "Female") or "wom?n" | | #1 TITLE-ABS-KEY ((wom?n) or | #1 ((wom?n) or (female)) (All |
| | | | (female)) | Fields) |
| Exposure | #2 (MH "Mediterranean Diet") or "med | diterranean diet" or | #2 (TITLE-ABS-KEY ((mediterranean | #2 ((Mediterranean Diet) or |
| | "mediterranean dietary pattern" | | and diet) or (mediterranean and dietary | (Mediterranean dietary pattern)) |
| | | | and pattern)) | (All Fields) |
| Outcome | #3 (MM "Cardiovascular Diseases") pr | (MM "Heart | #3 TITLE-ABS-KEY ((cardiovascular | #3 ((cardiovascular disease) or |
| | Diseases") or (MH "Heart Arrest+") or | (MM "Heart Failure") | and disease) or (cerebrovascular and | (CVD) or (cardiovascular*) or |
| | or (MM "Coronary Disease") or (MM | "Myocardial Ischemia") | disease) or (cardiovascular*) or (| (isch?emic heart disease) or |
| | or (MM "Angina, Stable") or (MM "M | yocardial Infarction") | isch?emic heart and disease) or (cardiac | (cardiac "near/2" event) or |
| | or "ischaemic heart disease" or "cardio | vascular disease" or | w/2 events) or (stroke) or (mortality)) | (cerebrovascular disease) or |
| | "cardiovascular n2 (events or event or | risk)" or "major | | (stroke) or (mortality)) (All Fields) |
| | adverse cardiovascular events" | | | |
| | #4 (MM "Cerebrovascular Disorders") | or (MM "Carotid | | |
| | Artery Diseases") or (MM "Cerebral Is | schemia") or (MM | | |
| | "Stroke") or (MM "Hemorrhagic Strok | e") or (MM "Ischemic | | |
| | Stroke") or (MM "Cerebral Infarction" |) | | |
| | #5 (MM "Mortality") or (MM "Cause of | of Death") | | |
| | #6 | #3 OR #4 OR #5 | | |
| | #1 AND #2 AND #6 | | #1 AND #2 AND #3 | #1 AND #2 AND #3 |
| | Limits: English language; Publication | period= "2003-Current" | Limits: English language; Publication | Limits: English language; |
| | | | period= "2003-Current" | Publication period="2003-Current" |

Supplemental File 2: Inclusion and Exclusion criteria **Table S1** Inclusion and exclusion criteria

| | Inclusion | Exclusion |
|--------------------------|---|--|
| Population Intervention | CVD was defined as diseases of the heart and/or blood vessels, including CHD, cerebrovascular disease, and peripheral artery disease. Female participants ≥18 years without CVD. Study authors must have reported sexspecific results or have data stratified according to sex to be eligible for inclusion. The exposure was higher Mediterranean diet adherence as assessed by an <i>a priori</i> MDS. Points of | If the score/index was only reported as a combination |
| | zero or one were given based on the median intake of each diet component, where one point was assigned when the intake of favourable components (wholegrains, vegetables, fruits, legumes, nuts, and fish) was higher than the median intake of the cohort or when the intake of non-favourable components (meat, poultry, and dairy products) was lower than the median intake. For fat intake, a ratio of monounsaturated to saturated lipids was used. These points were summed, with the final score ranging from a total of zero (lowest adherence) to nine points (highest adherence). Studies that did not utilise the traditional MDS or its adaptations were only included if their MDS definition included all following key components: vegetables, fruits, legumes, nuts, wholegrains, fish, high intake of monounsaturated fats (and/or monounsaturated to saturated fat ratio and/or olive oil), and meat and meat products (or red and processed meats). | of MDS and other lifestyle- related factors (e.g., exercise program) Studies referring to components or food groups of the Mediterranean diet |
| Comparison | Lower Mediterranean diet adherence | |
| Outcome | Incident CVD defined as: CHD, MI, stroke, heart failure, cardiovascular death, MACE, or MACC, or patient-reported CVD OR Total or all-cause mortality Results must include a risk estimate (i.e., odds ratio, relative risk, hazard ratio) and confidence intervals. | |
| Study type | Randomised controlled trials and Prospective cohort studies | No grey literature and clinical registries |

CVD cardiovascular disease; MDS Mediterranean diet score; CHD coronary heart disease; MI myocardial infarction; MACE major adverse cardiovascular events; MACC major adverse cardiac cerebrovascular events.

Supplemental File 3: Characteristics of Included Studies **Table S2** Table of characteristics for included studies

| Study author, year (Study name, Country) | Recruitment period/Study duration (years) | Final cohort size (N); n female participants (Percentage of women (%)) | Proportion of each cohort for the highest and lowest MD adherence | Age at baseline in years; mean [standard deviation] | MDS type/ Range | Outcome(s) reported | Adjusted risk estimate (95% CI), highest versus lowest (reference) MDS | Covariates included in the fully adjusted model |
|---|--|--|---|---|-----------------------|----------------------------|--|--|
| Strengers et al, 2021 (EPIC- Netherlands, Netherlands) | 1993- 1997/median 15 [IQR 14- 16] | 36,961 27,645 W (75%) | 6,540 W (Highest) 8676 W (Lowest) | 51 (median) | mMDS/ 0 to 9 | Heart failure | HR =1.07 (0.83- 1.36) W HR =0.53 (0.33- 0.86) M | Age, education level, physical activity, smoking status, total energy intake |
| Jackson et al, 2020 (ALSWH, Australia) | 1996- 2001/15 (maximum) | 5,324 W (100%) | 1,838 W (Highest) 1,286 W (Lowest) | 45-50 (range); 52.4[1.5] | MDS/0 to 17 | Overall Incident CVD | OR = 0.70 (0.50- 0.98) W | Age, birth country, BMI, education, energy, physical activity, socio- economic status, smoking |
| Shan et al, 2020 (NHS II, United States) | 1989- 1991/26 (maximum) | 90,864 W (100%) | 15,951 W (Highest) 20,381 W (Lowest) | 25-42 (range) | aMED/ 9 to 45 | Overall Incident CVD | HR = 0.62 (0.53- 0.73) W | Age, alcohol, aspirin, BMI, family history of MI, living status, oral contraceptive use, marital status, menopause status, multivitamin, physical activity, smoking, race/ethnicity, energy intake |

Table S2 (continued)

| Study author, year (Study name, Country) | Recruitment period/Study duration (years) | Final cohort size (N); n female participants (Percentage of women (%)) | Proportion of each cohort for the highest and lowest MD adherence | Age at baseline in years; mean [standard deviation] | MDS type/ Range | Outcome(s) reported | Adjusted risk estimate (95% CI), highest versus lowest (reference) MDS | Covariates included in the fully adjusted model |
|---|--|--|--|---|----------------------------|---|---|---|
| Ahmad et al, 2018 (WHS, United States) | 1991- 1995/mean 11.6 [SD 1.5] | 25,994 W (100%) | 6,483 W (Highest) 10,140 W (Lowest) | >45; 54.7 [7.1] | MED score/0 to 9 | Overall Incident CVD CHD Stroke | HR = 0.85 (0.71- 1.01) W HR = 0.89 (0.72- 1.11) W HR = 0.91 (0.67- 1.24) W | Age, energy intake, menopausal status, parental history of MI, physical activity, postmenopausal hormone use, treatment assignment, smoking |
| Galbete et al, 2018 (EPIC- Potsdam, Germany) | 1994- 1998/mean 10.6 | 23,485 14,357 W (61.1%) | 4,846 W (Highest) 3,952 W (Lowest) | 35-65; 49.8[8.9 | MedPyr score/0 to 15 | MI | HR = 0.77 (0.45– 1.30) W HR = 0.87 (0.62- 1.22) M | Age, alcohol, BMI, cycling, education, total energy, prevalent hypertension, smoking status, sports, vitamin supplementation, waist circumference |
| Lemming et al, 2018 (Swedish Mammography Cohort, Sweden) | 1987- 1990/median 17 | 33,341 W (100%) | 6,965 W (Highest) 7,992 W (Lowest) | 61 (median) | mMDS/ 0 to 9 | CVD mortality | HR = 0.65 (0.52- 0.83) W | Charlson's comorbidity index, education, energy intake, healthy Nordic food index diet score, living alone, physical activity, smoking |

Table S2 (continued)

| Study author, year (Study name, Country) | Recruitment period/Study duration (years) | Final cohort size (N); n female participants (Percentage of women (%)) | Proportion of each cohort for the highest and lowest MD adherence | Age at baseline in years; mean [standard deviation] | MDS type/ Range | Outcome(s) reported | Adjusted risk estimate (95% CI), highest versus lowest (reference) MDS | Covariates included in the fully adjusted model |
|--|--|--|---|---|-----------------------|--|--|--|
| Neelakantan et al, 2018 (Singapore Chinese Health Study, Singapore) | 1993- 1998/mean 17 | 57,168 31,958 W (55.9%) | 6,539 W (Highest) 6,221 W (Lowest) | 45-74 (range) | aMED/ 0 to 9 | CVD mortality Total mortality | HR = 0.78 (0.67- 0.91) W HR = 0.77 (0.67- 0.88) M HR = 0.83 (0.76- 0.91) W HR = 0.78 (0.73- 0.84) M | Age, BMI, Chinese dialect, diabetes mellitus, hypertension, education, physical activity, sleep duration, smoking, energy intake |
| Harmon et al, 2015 (MEC, United States) | 1993- 1996/13-18 (range) | 156,804 86,634 W (55.2%) | 20,459 W (Highest) 18,397 W (Lowest) | 45-75 (range) | aMED/ 0 to 9 | CVD mortality Total mortality | HR = 0.81 (0.74- 0.89) W HR = 0.79 (0.72- 0.86) M HR = 0.78 (0.74- 0.82) W HR = 0.76 (0.73- 0.80) M | Age, BMI, diabetes mellitus, educational level, energy intake, ethnicity, marital status, physical activity, postmenopausal hormone replacement therapy, smoking |

Table S2 (continued)

| Study author, year (Study name, Country) | Recruitment period/Study duration (years) | Final cohort size (N); n female participants (Percentage of women (%)) | Proportion of each cohort for the highest and lowest MD adherence | Age at baseline in years; mean [standard deviation] | MDS type/ Range | Outcome(s) reported | Adjusted risk estimate (95% CI), highest versus lowest (reference) MDS | Covariates included in the fully adjusted model |
|--|--|--|---|---|-----------------------|---------------------|--|---|
| George et al, | 1993- | 63,805 W | 15,708 W | 50-79 (range) | aMED/ | CVD | HR = 0.79 (0.67- | Age, energy intake, |
| 2014 (WHI, United States) | 1998/median 12.9 | (100%) | (Highest) 11,685 W | | 0 to 9 | mortality | 0.94) W | ethnicity, educational level, marital status, |
| · | | | (Lowest) | | | Total mortality | HR = 0.74 (0.68- 0.81) W | smoking, physical activity, postmenopausal hormone replacement therapy, BMI, and diabetes mellitus |
| Reedy et al, 2014 (NIH- | 1995- 1996/15 | 492,923 182,342 W | 44,474 W (Highest) | 50-71 (range) | aMED/ 0 to 9 | CVD mortality | HR = 0.78 (0.72- 0.84) W | Age, alcohol, BMI, diabetes mellitus, |
| AARP Diet and | (maximum) | (37%) | 32,521 W | | | | HR = 0.8 (0.76- | education, energy |
| Health Study, United States) | | | (Lowest) | | | Total mortality | 0.84) M | intake, hormone replacement therapy, |
| omica states) | | | | | | mortanty | HR = 0.76 (0.73- | marital status, physical |
| | | | | | | | 0.79) W | activity, race/ethnicity |
| | | | | | | | HR = 0.77 (0.75 - 0.79) M | |
| | | | | | | | HR = 0.77 (0.75 - | , |

Table S2 (continued)

| Study author, year (Study name, Country) | Recruitment period/Study duration (years) | Final cohort size (N); n female participants (Percentage of women (%)) | Proportion of each cohort for the highest and lowest MD adherence | Age at baseline in years; mean [standard deviation] | MDS type/ Range | Outcome(s) reported | Adjusted risk estimate (95% CI), highest versus lowest (reference) MDS | Covariates included in the fully adjusted model |
|--|--|--|---|---|-----------------------|-------------------------|---|---|
| Chan et al, 2013 (China) | 2001- 2003/median 5.7 | 2,735 1,397 W (51.1%) | 263 W (Highest) 509 W (Lowest) | ≥65; 72.4[5.4] | tMDS/0 to 18 | Stroke | HR = 0.72 (0.28- 1.87) W HR = 0.55 (0.31- 0.99) M | Age, alcohol use, BMI, community ladder, energy intake, Hong Kong ladder, community ladder, hypertension, physical activity scale for the elderly, smoking status |
| Dilis et al, 2012 (EPIC-Greece, Greece) | 1994- 1999/median 10 | 23,929 14,189 W (59.3%) | N/A | 20-86 (range) | tMDS/0 to 9 | CHD CHD mortality | HR = 0.62 (0.39- 0.99) W HR = 0.9 (0.70- 1.16) M HR = 0.39 (0.17- 0.88) W HR = 0.62 (0.39- 0.98) M | Age, arterial blood pressure (normal or high), BMI, energy intake, physical activity, smoking, years of schooling |

Table S2 (continued)

| Study author, year (Study name, Country) | Recruitment period/Study duration (years) | Final cohort size (N); n female participants (Percentage of women (%)) | Proportion of each cohort for the highest and lowest MD adherence | Age at baseline in years; mean [standard deviation] | MDS type/ Range | Outcome(s) reported | Adjusted risk estimate (95% CI), highest versus lowest (reference) MDS | Covariates included in the fully adjusted model |
|--|--|--|---|---|-----------------------|------------------------|--|--|
| van den Brandt et al, 2011 (Netherlands Cohort Study, Netherlands) | 1986/10 (maximum) | 3,576 1,886 W (52.7%) | 441 W (Highest) 632 W (Lowest) | 55-69 (range) | aMED/ 0 to 9 | Total mortality | HR = 0.69 (0.58- 0.82) W HR = 0.89 (0.74- 1.07) M | Age, BMI, smoking, energy intake, education, hypertension history, physical activity, cigarettes smoked per day, years of smoking |
| Buckland et al, 2009 (EPIC- Spain, Spain) | 1992- 1996/mean 10.4 | 41,078 25,636 W (62.4%) | 5,518 W (Highest) 6,501 W (Lowest) | 29-69; 49.3[8.0] | rMDS/ 0 to 18 | CHD | HR = 0.67 (0.39- 1.16) W HR = 0.58 (0.44- 0.76) M | BMI, diabetes mellitus, education, hyperlipidaemia, hypertension, physical activity, smoking status, total calorie intake |
| Fung et al, 2009 (NHS I, United States) | 1976- 1984/20 (maximum) | 74,886 W (100%) | N/A | 38-63 (range) | aMED/ 0 to 9 | CHD Stroke | RR = 0.71 (0.62– 0.82) W RR = 0.87 (0.73– 1.02) W | Age, alcohol, aspirin use, BMI, energy intake, family history, menopausal status, postmenopausal hormone use, multivitamin intake, physical activity, smoking status |

Table S2 (continued)

| Study author, year (Study name, Country) | Recruitment period/Study duration (years) | Final cohort size (N); n female participants (Percentage of women (%)) | Proportion of each cohort for the highest and lowest MD adherence | Age at baseline in years; mean [standard deviation] | MDS type/ Range | Outcome(s) reported | Adjusted risk estimate (95% CI), highest versus lowest (reference) MDS | Covariates included in the fully adjusted model |
|---|--|--|---|---|-----------------------|---------------------|--|--|
| Lagiou et al, 2006 (Scandinavian Women's Lifestyle and Health Cohort, Sweden) | 1991-1992/ mean 12.01 | 42,237 W (100%) | 9,453 W (Highest) 14,328 W (Lowest) | 30-49 (range) | tMDS/0 to 9) | Total mortality | HR = 0.85 (0.67- 1.08) W | Age, BMI, education, egg intake, energy intake, height, non-alcoholic beverage intake, physical activity, polyunsaturated lipid intake, potato intake, smoking, sweet intake |

W women, M men, CVD cardiovascular disease, CHD coronary heart disease, BMI body mass index, MI myocardial infarction, MDS Mediterranean Score, tMDS traditional Mediterranean diet score, aMED Alternate Mediterranean Score, rMed relative Mediterranean Score, mMDS modified Mediterranean Score, OR odds ratio, HR hazard ratio, RR relative risk, NHS Nurse's Health Study, EPIC European Prospective Investigation into Cancer and Nutrition, WHS Women's Health Study, WHI Women's Health Initiative, ALSWH Australian Longitudinal Study on Women's Health, MEC Multiethnic Cohort, IQR Interquartile Range, SD Standard Deviation, N/A not available.

Supplemental File 4: Quality of Included Studies

Table S3 Assessment of quality of study with the Newcastle-Ottawa Scale

| | Selection | | | | Comparability | | | | |
|------------------|--------------------|----------------|---------------|-----------------|------------------|------------|-------------|-----------|---------|
| | 1 | 2 | 3 | 4 | 1 | 1 | 2 | 3 | |
| | Representativeness | Selection of | Ascertainment | Demonstration | Comparability | Assessment | Was follow- | Adequacy | Total |
| | of the exposed | the non- | of exposure | that outcome | of cohorts on | of outcome | up long | of follow | quality |
| | cohort | exposed cohort | | of interest was | the basis of the | | enough for | up of | score |
| | | | | not present at | design or | | outcomes to | cohorts | |
| | | | | start of study | analysis | | occur | | |
| Ahmad et | | * | | * | ** | * | * | | 6 |
| al, 2018 | | | | | | | | | |
| D 11 1 . | * | * | * | * | * | * | * | | |
| Buckland et | * | * | * | * | * | * | * | | 7 |
| al, 2009 | | * | | * | ** | * | * | | 6 |
| Chan et al, 2013 | | * | | * | | * | | | О |
| Dilis et al, | * | * | * | * | ** | * | * | | 8 |
| 2012 | | | | | | | | | 0 |
| Fung et al, | | * | | * | ** | * | * | | 6 |
| 2009 | | | | | | | | | |
| Galbete et | * | * | | * | ** | * | * | | 7 |
| al, 2018 | | | | | | | | | |
| George et | * | * | | * | ** | * | * | * | 8 |
| al, 2014 | | | | | | | | | |
| Harmon et | * | * | | * | ** | * | * | | 7 |
| al, 2015 | | | | | | | | | |

Table S3 (continued)

| | Selection | Comparability | ility Outcome | | | | | | |
|----------------------------------|--|--|---------------------------|--|---|-----------------------|--|---|---------------------------|
| | 1 | 2 | 3 | 4 | 1 | 1 | 2 | 3 | |
| | Representativeness of the exposed cohort | Selection of the non- exposed cohort | Ascertainment of exposure | Demonstration that outcome of interest was not present at start of study | Comparability of cohorts on the basis of the design or analysis | Assessment of outcome | Was follow- up long enough for outcomes to occur | Adequacy of follow up of cohorts | Total quality score |
| Jackson et al, 2020 | * | * | | * | ** | | * | | 6 |
| Lagiou et al, 2006 | * | * | | * | ** | * | * | | 7 |
| Lemming et al, 2018 | | * | | * | * | * | * | | 5 |
| Neelakantan et al, 2018 | * | * | * | * | ** | * | * | | 8 |
| Reedy et al, 2014 | | * | | * | ** | * | * | | 6 |
| Shan et al, 2020 | | * | | * | ** | * | * | * | 7 |
| Strengers et al, 2021 | * | * | | * | ** | * | * | | 7 |
| van den Brandt et al, 2011 | * | * | | * | ** | * | * | * | 8 |

Assessment based on the Newcastle-Ottawa Scale, with scores ranging from 0 to 9. Points to studies were given according to three domains: selection (maximum of four points), outcome (maximum three points), and comparability (maximum of two points). Studies receiving 7-9 were considered high quality, 4-6 were considered as moderate quality, and 0-3 were considered as low quality. One point was awarded in the Comparability domain if the study was controlled for age as the most important factor and a second point for any additional factors. One point was awarded for 'Was follow-up long enough for outcomes to occur' if the follow-up duration was more than five years.

Supplemental File 5: Subgroup analyses

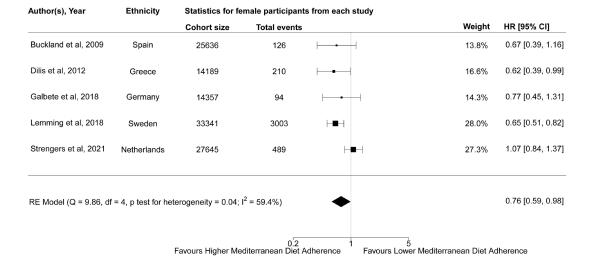


Figure S1 Forest plot of pooled hazard ratios (HRs) of incident CVD for female participants of European descent (n= 5) using random effects model. *HR* hazard ratio. *CVD* cardiovascular disease. *RE* random effects.

| Author(s), Year | Ethnicity | Statistics for female participants from each study | | | | | | |
|--------------------------|--------------------------|--|-------------------|-------------------|-----------------------|-------------------|--|--|
| | | Cohort size | Total events | | Weight | HR [95% CI] | | |
| Chan et al, 2013 | Hong Kong Chinese | 1397 | 60 | - | 0.9% | 0.72 [0.28, 1.86] | | |
| Harmon etal, 2015 | Japanese American | 24785 | 1256 | ⊦ ■- | 22.6% | 0.72 [0.59, 0.87] | | |
| Harmon etal, 2015 | Native Hawaiian | 6368 | 440 | ⊢ •−1 | 7.9% | 1.00 [0.72, 1.39] | | |
| Harmon etal, 2015 | African American | 16072 | 1771 | H■H | 32.1% | 0.82 [0.70, 0.97] | | |
| Neelakantan et al, 2018 | Singapore Chinese | 31958 | 2208 | = | 36.4% | 0.78 [0.67, 0.91] | | |
| RE Model (Q = 3.11, df = | 4, p test for heterogene | • | | 0.79 [0.72, 0.87] | | | | |
| | | Favours Higher | Mediterranean Die | | 5 ower Mediterrane | an Diet Adherence | | |

Figure S2 Forest plot of pooled hazard ratios (HRs) of incident CVD for female participants of non-European descent (Hong Kong Chinese, Japanese, Native Haiiwaiian, African American, Singapore Chinese) (n= 5) using random effects model. *HR* hazard ratio. *CVD* cardiovascular disease. *RE* random effects.

Supplemental File 6: Funnel plot of standard error by log of hazard ratios

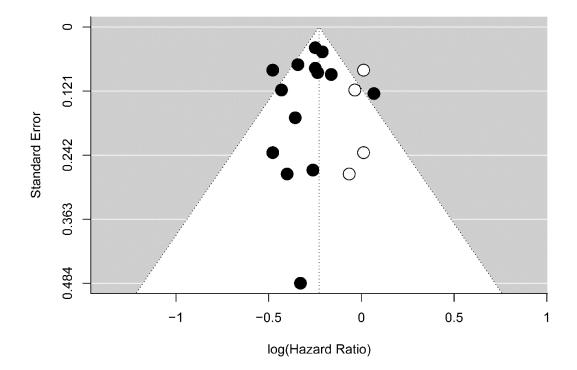


Figure S3 Funnel plot for assessment of publication bias in the meta-analysis on association between Mediterranean diet adherence and incident CVD in female participants. P for Egger's test = 0.55.

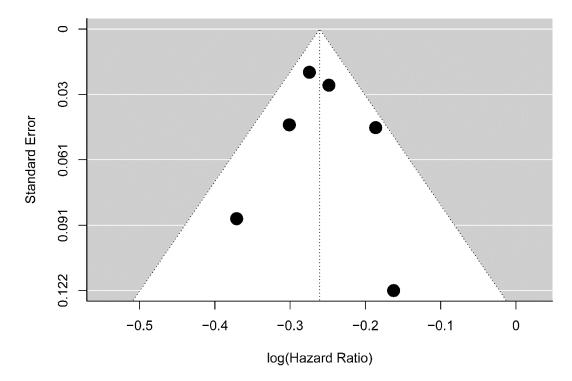


Figure S4 Funnel plot for assessment of publication bias in the meta-analysis on association between Mediterranean diet adherence and total mortality in female participants. P for Egger's test = 0.93.