

Supplementary File 2: Literature search strategy

Dose-response relationship of physical activity and mortality in people with noncommunicable diseases. Study protocol for a systematic review and meta-analysis of cohort studies

Search strategy according to PICO framework:

Population

Indication specific keywords

Breast cancer

- #1 “breast neoplasm” [MeSH Terms]
- #2 “breast tumor”
- #3 “breast carcinoma”
- #4 “human mammary neoplasm”
- #5 “breast cancer”
- #6 “mammary cancer”
- #7 “breast malignant neoplasm”
- #8 “breast malignant tumor”
- #9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8

Type 2 diabetes mellitus

- #10 “diabetes mellitus, type 2” [MeSH Terms]
- #11 “noninsulin dependent diabetes mellitus”
- #12 “ketosis resistant diabetes mellitus”
- #13 “stable diabetes mellitus”
- #14 “type 2 diabetes mellitus”
- #15 “NIDDM”
- #16 “maturity onset diabetes mellitus”
- #17 “slow onset diabetes mellitus”
- #18 #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17

Chronic Obstructive Pulmonary Disease

- #19 “COPD” [MeSH Terms]
- #20 “pulmonary disease, chronic obstructive” [MeSH Terms]
- #21 “COAD”
- #22 “chronic obstructive airway disease”
- #23 “chronic obstructive lung disease”
- #24 “chronic airflow obstruction”
- #25 #19 OR #20 OR #21 OR #22 OR #23 OR #24

Ischemic heart disease

- #26 “myocardial ischemia” [MeSH Terms]
- #27 “coronary artery disease” [MeSH Terms]
- #28 “myocardial infarction” [MeSH Terms]
- #29 “myocardial ischemia”
- #30 “coronary artery disease”

- #31 “myocardial infarction”
#32 #26 OR #27 OR #28 OR #29 OR #30 OR #31

Major depressive disorder

- #33 “depression” [MeSH Terms]
#34 “depressive disorder, major” [MeSH Terms]
#35 “depressive disorder”
#36 “depressive symptoms”
#37 “emotional depression”
#38 #33 OR #34 OR #35 OR #36 OR #37

Low back pain

- #39 “low back pain” [MeSH Terms]
#40 “lumbago”
#41 “low backache”
#42 #39 OR #40 OR #41

Stroke

- #43 “stroke” [MeSH Terms]
#44 “cerebrovascular accident”
#45 “CVA”
#46 “apoplexy”
#47 “brain vascular accident”
#48 #43 OR #44 OR #45 OR #46 OR #47

Osteoarthritis

- #49 “osteoarthritis” [MeSH Terms]
#50 “osteoarthrosis”
#51 “osteoarthritides”
#52 “arthritis degenerative”
#53 #49 OR #50 OR #51 OR #52

Lung cancer

- #54 “lung neoplasm” [MeSH Terms]
#55 “pulmonary neoplasm”
#56 “lung cancer”
#57 “pulmonary cancer”
#58 #54 OR #55 OR #56 OR #57

Intervention (Exposure)

- #59 “human activities” [MeSH Terms]
#60 “motor activities” [MeSH Terms]
#61 “leisure activities” [MeSH Terms]
#62 “exercises” [MeSH Terms]
#63 “running” [MeSH Terms]
#64 “walking” [MeSH Terms]
#65 “bicycling” [MeSH Terms]

- #66 “gardening” [MeSH Terms]
- #67 “sports” [MeSH Terms]
- #68 “activities of daily living” [MeSH Terms]
- #69 “human activity”
- #70 “motor activity”
- #71 “leisure activity”
- #72 “exercise”
- #73 “sport”
- #74 “physical activity
- #74 “physical activities
- #75 “nonexercise activity”
- #76 “nonexercise activities”
- #77 “energy expenditure”
- #78 “caloric expenditure”
- #79 #59 OR #60 OR #61 OR #62 OR #63 OR #64 OR #65 OR #66 OR #67 OR #68 OR #69 OR #70 OR #71 OR #72 OR #73 OR #74 OR #75 OR #76 OR #77 OR #78

Comparator

None.

Outcome

- #79 “mortality” [MeSH Terms]
- #80 “death”
- #81 “survival”
- #82 “life expectancy”
- #83 “years of life lost”
- #84 #79 OR #80 OR #81 OR #82 OR #83

Years covered by search: All years, no time restriction.

Language: English

Study design filter: No restriction.

PubMed search example for the Chronic Obstructive Coronary Disease:

1# (("COPD" OR "pulmonary disease, chronic obstructive"[MeSH Terms])) OR ("COPD"[Title/Abstract] OR "chronic obstructive pulmonary disease"[Title/Abstract] OR "COAD"[Title/Abstract] OR "chronic obstructive airway disease"[Title/Abstract] OR "chronic obstructive lung disease"[Title/Abstract] OR "chronic airflow obstruction"[Title/Abstract])

2# (("human activities" OR "motor activities" OR "leisure activities" OR "exercises" OR "running" OR "walking" OR "bicycling" OR "gardening" OR "sports" OR "activities of daily living"[MeSH Terms]) OR ("human activities"[Title/Abstract] OR "human activity"[Title/Abstract] OR "motor activity"[Title/Abstract] OR "motor activities"[Title/Abstract] OR "leisure activities"[Title/Abstract] OR "leisure activity"[Title/Abstract] OR "exercise"[Title/Abstract] OR "exercises"[Title/Abstract] OR "running"[Title/Abstract] OR "walking"[Title/Abstract] OR "bicycling"[Title/Abstract] OR "gardening"[Title/Abstract] OR "sports"[Title/Abstract] OR "sport"[Title/Abstract] OR "activities of daily living"[Title/Abstract] OR "physical activity"[Title/Abstract] OR "physical activities"[Title/Abstract] OR "nonexercise activity"[Title/Abstract] OR "nonexercise activities"[Title/Abstract] OR "energy expenditure"[Title/Abstract] OR "caloric expenditure"[Title/Abstract]))

3# ("mortality" [Title/Abstract] OR "death" [Title/Abstract] OR "survival" [Title/Abstract] OR "life expectancy" [Title/Abstract] OR "years of life lost"[Title/Abstract]) OR "mortality"[MeSH Terms])

1# AND 2# AND 3#

Scopus search example for the Chronic Obstructive Coronary Disease:

1# (TITLE-ABS ("human activit*" OR "motor activit*" OR "physical activit*" OR "leisure activit*" OR "exercise" OR "running" OR "walking" OR "bicycling" OR "gardening" OR "sport*" OR "activit* of daily living" OR "nonexercise activit*" OR "energy expenditure" OR "caloric expenditure"))

2# (TITLE-ABS ("mortality" OR "death" OR "survival" OR "life expectancy" OR "years of life lost"))

3# (TITLE-ABS ("COPD" OR "chronic obstructive pulmonary disease" OR "COAD" OR "chronic obstructive airway disease" OR "chronic obstructive lung disease" OR "chronic airflow obstruction"))

1# AND 2# AND 3#

Web of Science search example for the Chronic Obstructive Coronary Disease:

1# "COPD" OR "chronic obstructive pulmonary disease" OR "COAD" OR "chronic obstructive airway disease" OR "chronic obstructive lung disease" OR "chronic airflow obstruction" **TOPIC**

2# "COPD" OR "chronic obstructive pulmonary disease" OR "COAD" OR "chronic obstructive airway disease" OR "chronic obstructive lung disease" OR "chronic airflow obstruction" **TITLE**

3# "human activit*" OR "motor activit*" OR "physical activit*" OR "leisure activit*" OR "exercise" OR "running" OR "walking" OR "bicycling" OR "gardening" OR "sport*" OR "activit* of daily living" OR "nonexercise activit*" OR "energy expenditure" OR "caloric expenditure" **TOPIC**

4# "human activit*" OR "motor activit*" OR "physical activit*" OR "leisure activit*" OR "exercise" OR "running" OR "walking" OR "bicycling" OR "gardening" OR "sport*" OR "activit* of daily living" OR "nonexercise activit*" OR "energy expenditure" OR "caloric expenditure" **TITLE**

5# "mortality" OR "death" OR "survival" OR "life expectancy" OR "years of life lost" **TOPIC**

6# "mortality" OR "death" OR "survival" OR "life expectancy" OR "years of life lost" **TITLE**

1# OR 2# AND 3# OR 4# AND 5# OR 6#