

**Supplementary file 1****PRISMA-P (Preferred Reporting Items for Systematic Review and Meta-Analysis Protocols) 2015 checklist**

<b>Section and topic</b>	<b>Item No</b>	<b>Checklist item</b>	<b>Page</b>
<b>ADMINISTRATIVE INFORMATION</b>			
Title:			
Identification	1a	Identify the report as a protocol of a systematic review	1
Update	1b	If the protocol is for an update of a previous systematic review, identify as such	NA
Registration	2	If registered, provide the name of the registry (such as PROSPERO) and registration number	2
Authors:			
Contact	3a	Provide name, institutional affiliation, the e-mail address of all protocol authors; provide the physical mailing address of the corresponding author	1
Contributions	3b	Describe contributions of protocol authors and identify the guarantor of the review	12
Amendments	4	If the protocol represents an amendment of a previously completed or published protocol, identify as such and list changes; otherwise, state plan for documenting important protocol amendments	NA
Support:			
Sources	5a	Indicate sources of financial or other support for the review	NA
Sponsor	5b	Provide a name for the review funder and/or sponsor	NA
Role of sponsor or funder	5c	Describe roles of funder(s), sponsor(s), and/or institution(s), if any, in developing the protocol	NA
<b>INTRODUCTION</b>			
Rationale	6	Describe the rationale for the review in the context of what is already known	4
Objectives	7	Provide an explicit statement of the question(s) the review will address concerning participants, interventions, comparators, and outcomes (PICO)	5
<b>METHODS</b>			
Eligibility criteria	8	Specify the study characteristics (such as PICO, study design, setting, time frame) and report characteristics (such as years considered, language, publication status) to be used as criteria for eligibility for the review	5, 6

Information sources	9	Describe all intended information sources (such as electronic databases, contact with study authors, trial registers, or other grey literature sources) with planned dates of coverage	6
Search strategy	10	The present draft of the search strategy to be used for at least one electronic database, including planned limits, such that it could be repeated	Additional file 2, 7
Study records:			
Data management	11a	Describe the mechanism(s) that will be used to manage records and data throughout the review	7
Selection process	11b	State the process that will be used for selecting studies (such as two independent reviewers) through each phase of the review (that is, screening, eligibility, and inclusion in meta-analysis)	7
Data collection process	11c	Describe the planned method of extracting data from reports (such as piloting forms, done independently, in duplicate), and processes for obtaining and confirming data from investigators	8
Data items	12	List and define all variables for which data will be sought (such as PICO items, funding sources), any pre-planned data assumptions and simplifications	8
Outcomes and prioritization	13	List and define all outcomes for which data will be sought, including prioritization of main and additional outcomes, with rationale	8
Risk of bias in individual studies	14	Describe anticipated methods for assessing the risk of bias of individual studies, including whether this will be done at the outcome or study level, or both; state how this information will be used in data synthesis	8
Data synthesis	15a	Describe criteria under which study data will be quantitatively synthesized	9
	15b	If data are appropriate for quantitative synthesis, describe planned summary measures, methods of handling data, and methods of combining data from studies, including any planned exploration of consistency (such as $I^2$ , Kendall's $\tau$ )	9
	15c	Describe any proposed additional analyses (such as sensitivity or subgroup analyses, meta-regression)	10
	15d	If quantitative synthesis is not appropriate, describe the type of summary planned	8
Meta-bias(es)	16	Specify any planned assessment of meta-bias(es) (such as publication bias across studies, selective reporting within studies)	10
Confidence in cumulative evidence	17	Describe how the strength of the body of evidence will be assessed (such as GRADE)	10

Source: Moher et al., 2015. NA = Not applicable

**Supplementary file 2**

## MEDLINE search strategy for the systematic review

- 1 exp Aged/ [MeSH]
- 2 exp Geriatrics/ [MeSH]
- 3 ((old\* or age\*) adj3 (people\* or person\* or adult\* or women\* or men\* or citizen\* or residen\*)).mp.
- 4 (aged or elderly or senior\* or geriatric\*).mp.
- 5 or/1-4
- 6 exp personal satisfaction/ [MeSH]
- 7 ((life or lives or personal) adj2 satisf\*).mp.
- 8 or/6-7
- 9 exp Health Behavior/ [MeSH]
- 10 exp Healthy Lifestyle/ [MeSH]
- 11 (health\* adj3 (behavior\* or behaviour\* or lifestyle\*)).mp.
- 12 exp Diet/ [MeSH]
- 13 (diet\* or nutrition or fruit\* or vegetable\*).mp.
- 14 (food\* adj3 (choice\* or consum\* or pattern\* or intak\*)).mp.
- 15 exp Sleep/ [MeSH]
- 16 sleep\*.mp.
- 17 exp Smoking/ [MeSH]
- 18 exp "Tobacco Use"/ [MeSH]
- 19 (smok\* or tobacco).mp.
- 20 exp Alcohol Drinking/ [MeSH]
- 21 exp Alcohol-Related Disorders/ [MeSH]
- 22 (alcohol\* adj2 (drink\* or intoxicat\* or use\* or abus\* or misus\* or risk\* or consum\*)).mp.
- 23 (drink\* adj2 (excess or heavy or heavily or harm or harmful or hazard\* or binge or harmful or problem\*)).mp.
- 24 (alcoholic\* or alcoholism).mp.
- 25 exp Exercise/ [MeSH]
- 26 Physical Exertion/ [MeSH]
- 27 exp Physical Fitness/ [MeSH]
- 28 exp Sports/ [MeSH]
- 29 (exercis\* or fitness or sport\* or walk\*).mp.
- 30 (physical\* adj2 activ\*).mp.
- 31 or/9-30
- 32 comparative study/ [MeSH]
- 33 Follow-Up Studies/ [MeSH]
- 34 Time Factors/ [MeSH]
- 35 chang\*.mp.
- 36 evaluat\*.mp.

- 37 reviewed.mp.
- 38 prospective\*.mp.
- 39 retrospective\*.mp.
- 40 baseline.mp.
- 41 cohort.mp.
- 42 case series.mp.
- 43 or/32-42
- 44 5 and 8 and 31 and 43
- 45 limit 44 to English language

Note: MeSH = medical subject heading; exp = used with a MeSH term to include all narrower MeSH terms; .mp. = field code for multi-purpose, which searches titles, abstracts, and subject headings, among other fields; adj# = search for records with terms within # words of each other; \* after keyword indicates truncation (e.g., evaluat\* will retrieve “evaluate”, “evaluates”, “evaluation”, etc.)

**Supplementary file 3**

## Data extraction sheet

1	2	3	4	5	6	7	8	9	10	11	12
S/N	Author/ Year/ Country	Study design	Sample size	Descriptive summary							
				Age	Gender	Smoking	Alcohol drinking	Physical activity	Diet/ Nutrition	Sleep	Life satisfaction

13	14	15	16	17	18	19	20
Measures of life satisfaction	Inferential Statistics	Correlation coefficient					p-value
		Smoking	Alcohol drinking	Physical activity	Diet/ Nutrition	Sleep	