Reviewer Information

What is your name?			
Notes:			

Questions for Evidence Extraction

<u>Meta-analysis</u> answers a research question of the form: "What is the impact of [some <u>predictor</u> or intervention of interest] on [some <u>outcome</u> of interest]?" Your research questions is, "What is the impact of a vegetarian diet on the overall mortality rate due to all causes?"

The purpose of this form is to guide the process of extracting evidence from written reports of research findings for meta-analysis. The evidence we are interested in will be reported in the form of estimates from a statistical model. This form has two parts. The first part documents study-level information which includes crucial details about each written report. The second part documents result-level information which describes the specific nature of each statistical result to be included in your meta-analysis.

Study-Level Information

Study Identity

In this section, you will document information about the written report you are coding. This information should be consistent for all results reported in an article. Please feel free to use shorthand or copy and paste blocks of text from the article itself.

	•	
1.	What is	s the title of the report?
2.	List the	e authors of the study.
3.	What y	vear was the study published?
St	udy C	ontext
coi im _l	ntext in pact how What k [Descrip situation attempt authors explicitly to consider	e the following items to document information about the design of the study and the which the data were collected, paying special attention to information that might w you interpret the meaning of the results. Itind of study is this? Itinio: We differentiate kinds of studies depending on the degree of control the authors exert on the under study. In experiments, the authors may assign participants to treatment and control groups and to isolate the effect they are measuring through experimental control. In observational studies, the measure the situation under study in the real-world without exerting their influence. Articles will often a state what kind of study was run, usually in the Method section. When comparing studies, we will want der whether different kinds of studies yield different patterns of results.] Experimental (i.e., participants randomly assigned to groups) Observational (i.e., participants' behavior was observed without intervention)
		Other kind of study ↓
		Name:
		Description:
2.	In wha	t country was the study conducted?

3.	What was the study setting?
	[Description: Studies present data gathered in different kinds of settings or environments. A controlled setting is one in which the authors have attempted to isolate the effect of interest by eliminating factors that might exist in real-world situations. In contrast, a naturalistic setting is one in which the authors have exerted no influence and are taking measurements in the real world. A crowdsourced setting is one in which data is collected online. Study settings will often align with the kind of study and should be reported in the Method section. When comparing studies, we will want to consider whether different settings yield different patterns of results.] Controlled (e.g., clinic, laboratory) Naturalistic (e.g., home, school, work) Crowdsourced (e.g., webpage) Other setting \ Name: Name:
	Description:
Pa	articipants
as	pects of the sampling process might have influenced the population the authors selected. Briefly describe the final sample of participants in the study in terms of relevant characteristics (e.g., demographics, occupation, health status), paying attention to how the recruitment process and inclusion or exclusion criteria impact sample <u>selection</u> . [Description: We think of participants in studies as being <u>sampled</u> from a particular population. Populations are essentially groups defined by common characteristics. If the recruitment process for a study selects for a particular kind of participant, we want to document this information so we can reason about the population in the study. The effect we are interested in might be different in different populations, so we will want to consider differences in study populations when choosing whether to aggregate studies in meta-analysis.]

Result-Level Information

In this section, you will document information about each estimate of the effect of interest in the written report you are coding. Please fill out the questions in this section for each reported result you would like to include in your meta-analysis. Be careful not to create duplicate entries if the same results are reported in separate written reports.

Measurement

Please use the following items to describe how the outcome of interest was defined and measured in the study (i.e., how the outcome of interest is operationalized).

1.	What units of measurement were reported to quantify the outcome of interest?
	[Description: Units of measurement refer to the way that the outcome of interest is reported in the study. This
	might be some raw measure such as the number of times an event occured, or it might be some derived
	measure such as the rate at which an event occured. Measurement units should be reported in the Method or
	Results section. We want to consider units of measurement when appraising the practical importance of the
	effect size reported in the study. Studies will likely use different units, so we will probably need to standardize the
	effect estimates from different studies before we can directly compare them.]

2.	How did the authors obtain the values of the reported measure? Please document how the
	author(s) define what counts as an observation of the outcome of interest.
	[Description: The first part of this question asks what was actually done to get the measurements reported in the
	paper? For example, the authors may have administered a survey, brought participants into the lab for data
	collection, or perhaps they retrieved data that had already been collected for another study. The second part of
	this question asks about the set of conditions that must be met in order for the authors to measure the outcome
	of interest. For example, the authors may choose to qualify what will count as an instance of the outcome of
	interest in order to scope their research. Otherwise, there may be limitations of the method of measurement. This
	information should be reported in the Method or Results section. In order to compare results across studies, we
	want to know where the data came from and whether or not studies differ in their methods of measurement.]

3.	. Was this measure repeated over time for individual participants?				
	[Description: Some studies involve repeated measurements from individual participants over time. For example, authors may administer a survey at multiple points in time. When authors take repeated measurements, it is often to compare outcomes before and after an intervention. The time schedule of repeated measurements be reported in the Method or Results section. To the extent that follow-up durations vary across studies, this information may be important to consider when deciding whether to aggregate studies in meta-analysis.] Not reported				
□ No					
	□ Yes↓				
	Would you like to document multiple follow-up measurements or just one?				
	□ Multiple follow-up measurements ↓				
	Select timepoints to report:				
	☐ Baseline (i.e., time zero)				
	☐ First follow-up ↓				
	Duration:				
	Unit of time:				
	□ Second follow-up ↓				
	Duration:				
	Unit of time:				
	☐ Just one measurement ↓				
What was the duration of the follow-up period?					
	Duration:				
	Unit of time:				
4.	Was this measure taken for subgroups of participants which are of interest in your				
meta-analysis, or will you just document the overall effect? [Description: Studies may break up effects by subgroups of participants (e.g., presenting data in contingent)					
	tables). When authors present outcomes in subgroups, it is often because those grouping factors are though influence the effect of interest. Subgroups should be reported in the Results section, but the rationale for the importance may be located elsewhere. We need to decide whether these grouping factors are of interest for meta-analysis, or if we prefer to only document the overall effect. Even if we are interested in subgroup effect we will only be able to include them in our meta-analysis if they are reported across multiple studies.]				
No subgroups effects were reported.Subgroup effects were reported, but we are only interested in the overall					
	□ Subgroup effects were reported, and we are interested in them. ↓				
	What was the grouping factor?				
	What levels of the factor were reported?				

Effect Size

Please use the following items to capture, in as much detail as possible, information reported about estimates of <u>effect size</u>. You will almost certainly find this information in the Results section. For each statistic reported about the effect of interest, please fill out the following items.

ab	out estii	mates of <u>effect size</u> . You will almost certainly find this information in the Results					
se	ction. Fo	or each statistic reported about the effect of interest, please fill out the following items.					
1. What is the name of statistic used to report the effect size estimate? This might be the							
as the unit of measurement, or it might be a statistic derived from that measurement thro							
	a statistical model.						
	[Description: Effect size might be reported as an average measurement in each group, an average difference						
		groups, a ratio describing the relative probability of the outcome of interest, a correlation coefficient, an					
		ed value, or a <u>regression coefficient</u> . These are all related measurements of the impact of the predictor					
	or interv	rention of interest on the outcome of interest.]					
	a.	What kind of effect size statistic is this?					
		☐ Mean					
		□ Ratio					
		□ Correlation					
	b.	What statistical model was used to produce the effect size estimate?					
2	How is	the <u>reliability</u> of the effect size estimate reported? Please check all that apply.					
		tion: Reliability is an indicator of how repeatable the estimation process is. Reliability statistics answer					
	the question: How likely is it that if we repeated the same analysis process, it would produce a similar effect size						
	estimate? Reliability might be reported as a test statistic such as a <u>t-test</u> or an <u>ANOVA F-test</u> . Alternatively, it						
	might be a <u>p-value</u> , a <u>standard error</u> , or a <u>confidence interval</u> . We'll want to document whatever the authors						
	reported	I so that we know how uncertain the results from the study are.]					
		Confidence Interval ↓					
		What is the confidence level?%					
		Test Statistic (e.g., t-value or F-value) ↓					
		What is the test statistic?					
		How many degrees of freedom (df) are there?					
		p-value					

3.	3. What (if any) covariates were adjusted for in the statistical model that produced the result? [Description: Covariates are factors or variables other than the predictor and outcome of interest which are included in a statistical model. The impact of including these other variables in the model is that we adjust the effect size estimate for the influence of these covariates. Specifically, the model splits the data into subgroups for each level of the covariates, calculates the effect of interest in each subgroup, and takes a weighted average of the effect size across these subgroups. Covariates might be demographic variables like age or characteristics like health status which impact both the predictor and the outcome of interest. Most regression models in particular will have covariates, but other kinds of models may not. The authors should report the covariates for each model somewhere in their Methods or Results. We want to know about covariates because if different studies adjust for different sets of variables, this will probably lead to differences in estimated effect size.]							
4.	Use this table to document the numerical effect size information reported in the written report. Please only try to fill in values for the fields you identified above.							
	Group &	Time Point	Sample Size (n)	Effect Size Estimate	Confidence Interval (CI)	Test Statistic	Degrees of Freedom (df)	p-value