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 estimate-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.

-							
1.	What is the title of the report?						
2.	List th	e authors of the study.					
3.	What	year was the study published?					
Study	Con	text					
Please	use th	ne following items to document information about the design of the study and the					
contex	t in wh	ich the data were collected, paying special attention to information that might					
mpact	how y	ou interpret the meaning of the results.					
1.	What	kind of study is this?					
	[Descri	ption: We differentiate kinds of studies depending on the degree of control the authors exert on the					
	situatio	n under study. In experiments, the authors may <u>assign</u> participants to treatment and control groups					
	and att	empt to isolate the effect they are measuring through <u>experimental control</u> . In observational studies,					
		hors measure the situation under study in the real-world without exerting their influence. Articles will					
	often explicitly state what kind of study was run, usually in the Method section. When comparing studies, w						
	_	nt to consider whether different kinds of studies yield different patterns of results.]					
	_						
		Observational (i.e., participants' behavior was observed without intervention)					
		Other kind of study ↓					
		Name:					
		Description:					

3. What was the study setting?

2. In what country was the study conducted?

[Description: Studies might 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

section.	I online. Study settings will often align with the kind of study and should be reported in the Method 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)
ū	Other setting ↓
	Name:
	Description:
Participants	3
	e following items to describe who the participants in the study were, thinking in aspects of the sampling process that might influence the population the authors
demogi was <u>se</u> [Descript are esse particula the study	describe the participants in the study in terms of relevant characteristics (e.g., raphics, occupation, health status). Please describe how the sample for the study lected, especially the recruitment process and any inclusion or exclusion criteria. tion: We think of participants in studies as being sampled from a particular population. Populations ntially groups defined by common characteristics. If the recruitment process for a study selects for a rekind of participant, we want to document this information so we can reason about the population in the effect we are interested in might be different in different populations, so we will want to differences in study populations when choosing whether to aggregate studies in meta-analysis.]

Estimate-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 is <u>operationalized</u> (i.e., how the outcome of interest was defined and measured in the study).

- 1. What are 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 author(s) qualify what they would and would not count as an observation of the outcome of interest?

[Description: Think of this question as asking about the set of conditions that must be met in order for the authors to measure the outcome of interest. These conditions might be chosen by the author to qualify what will count as an instance of the outcome of interest, or they might result from limitations in the method of measurement. This information should be reported in the Method or Results section. For the sake of comparison, we want to know if studies differ in their methods of measurement.]

<u> </u>				

3.	How d	lid the a	outhors of	obtain the values of the reported measure?
	[Descrip	otion: Wh	at was ac	tually done to get the measurements reported in the paper? The authors may
				ey, brought participants into the lab for data collection, or perhaps they retrieved
			-	n collected for another study. If we are going to use the evidence presented in the
	Study to	зирроп	mierence	s, we want to know where it came from.]
1	\\/aa tl	nio moo		and a decrease for individual participants?
4.			-	peated over time for individual participants?
	-			s involve <u>repeated measurements</u> from individual participants over time. When hts from participants at multiple points in time, it is often to see how their responses
				me intervention. Authors who do this should report the time schedule of their
	measur	ements, d	often in th	e Method section. To the extent that follow-up durations vary across studies, this
	informa _	•	•	ant to consider when deciding whether to aggregate studies in meta-analysis.]
		Not re	ported	
		Yes↓		
		Would	l you like	e to document multiple follow-up measurements or just one?
			Multipl	e 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:
				Third follow-up ↓
				Duration:
				Unit of time:
			Just or	ne measurement ↓
			What v	was the duration of the follow-up period?
			Duratio	on:
				time:

m([Do co fac se wh	is measure taken for subgroups of participants which are of interest in your nalysis, or will you just document the overall effect? ion: Some studies break up an effect by subgroups of participants by presenting data in next tables. When authors present outcomes in subgroups, it is often because those grouping are thought to influence the effect of interest. These subgroups should be reported in the results of the paper, but the rationale for their importance may be located elsewhere. You need to decide these grouping factors are of interest for your meta-analysis, or if you prefer to only document the effect. Even if you are interested in these subgroup effects, you will only be able to include them in the 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 effect. Subgroup effects were reported, and we are interested in them. What was the grouping factor?	
		What levels of the grouping factor were reported?
about esti section. F 1. W [Di dif.	se the imate for early like the imate in the image in the	e following items to capture, in as much detail as possible, information reported as of effect size. You will almost certainly find this information in the Results ach statistic reported about the effect interest, please fill out the following items. In the name of statistic used to report the effect size estimate? Significantly, an average measurement in each group, an average we between groups, a ratio describing the relative probability of the outcome of interest, a correlation and an R-squared value, or a regression coefficient. These are all related measurements of the fithe predictor or intervention of interest on the outcome of interest.]
	a.	What kind of effect size statistic is this?
		□ Ratio
		□ Correlation
	b.	Please record the numeric value for the reported statistic

2.	How is	s the <u>reliability</u> of the effect size estimate reported?
	[Descri	ption: 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</u>
	F-test.	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
	whatev	er the authors reported so that we know how uncertain the results from the study are.]
	a.	What statistical model was used to produce the effect size estimate?
	b.	Please record the numeric value(s) describing the reliability of the reported
		statistic.
	C.	Please record the <u>sample size</u> used to estimate the reported statistic.
3.	What	(if any) covariates were adjusted for in the statistical model that produced the
	report	ed estimate?
	[Descri	ption: Covariates are factors or variables other than the predictor and outcome of interest which are
	-	d in a statistical model. The impact of including these other variables in the model is that we adjust
	the effe	ect size estimate for the influence of these covariates. Specifically, the model splits the data into
	subgro	ups as each level of the covariates, calculates the effect of interest in each subgroup, and takes a
	weighte	ed average of the effect size across these subgroups. Covariates might be demographic variables like
	gender	or age or characteristics like health status which impact both the predictor and the outcome of
	interest	t. Most regression models in particular will have covariates, but other kinds of models may not. The
	authors	s should report the covariates for each model somewhere in their methods or results. We want to
	know a	bout covariates because if different studies adjust for different sets of variables, this will probably lead
	to differ	rences in estimated effect size.]