

# Extraction Instrument

## Eligibility Criteria

1	Is the study a meta-analysis?	Yes/no
2	Does it cover a psychological construct?	Yes/no
3	Is it published in 2022 or 2021?	Yes/no

Only proceed with coding if all criteria are met

## General Information

	Variable	
5	DOI	Numeric
6	Year	Numeric
7	Is the study pre-registered?	Yes/no
8	Is the data open?	Yes/no
9	Was any guidelines followed?(e.g PRISMA, JBI)	Free text
10	Is the protocol available?	Yes/no
11	What are the PICOs?	Free text
12	How many studies are included in the review?	numeric
13	What type of model is used?	Free text
14	What field of psychology does it cover?	Free text

## RQ1: How does study eligibility criteria address heterogeneity?

	Variable	Entry type	Contingency
1.1	What are the exclusion criteria?	Free text	
1.2	What are the inclusion criteria?	Free text	

	Variable	Entry type	Contingency
1.3	Quote any mention of comparability across studies	Free text	
1.4	Is a specific theory under investigation?	Yes/no	If yes answer 1.5
1.5	Provide a short summary of the theory	Free text	
1.6	Is a specific experimental design under investigation	Yes/no	If yes answer 1.7
1.7	Provide a short summary of the experimental design	Free text	
1.8	Are the included studies surface similar? e.g appear to cover the same psychological construct?	Yes/no	If yes, answer 1.9
1.9	What are the key characteristics of the construct under investigation?	Free text	
1.10	What are the study characteristics deemed irrelevant?	Free text	
1.11	Does the concept under investigation have a causal explanation?	Yes/no	If yes, answer 1.12
1.12	Does all studies share causal explanation?	Yes/no/unclear	If answered, answer 1.13
1.13	What are the implications of the answer to 1.12?	Free text	

## RQ2: How is heterogeneity present in the studies?

	Variable	Entry type	Contingency
2.1	Are there both experimental and non-experimental designs?	Yes/no	
2.2	Are there both between and within group designs?	Yes/no	
2.3	Are there multiple experimental conditions?	Yes/no	
2.4	Are there multiple statistical models? e.g t-tests and regression models	Yes/no	
2.5	Are there multiple effect measures? e.g Cohen's d and log odds	Yes/no	
2.6	Are there multiple populations of participants in the studies?	Yes/no	If yes, answer 2.7

	Variable	Entry type	Contingency
2.7	What populations are combined in the sample?	Free text	

### **RQ3: How is statistical heterogeneity estimated?**

	Variable	Entry type	Contingency
3.1	How is statistical heterogeneity quantified?	Statistic (e.g $\tau^2$ , $I^2$ , $Q$ )	
3.2	What is the value of the reported heterogeneity	Numeric	

### **RQ4: How is statistical heterogeneity addressed?**

	Variable	Entry type	Contingency
4.1	Is there ad-hoc exclusion of studies?	Yes/no	
4.2	Was meta-regression conducted?	Yes/no	If yes, answer 4.3
4.3	What was adjusted for in the regression?	Free text	
4.4	Was sub-group analysis conducted?	Yes/no	If yes, answer 4.5
4.5	What sub-groups were analysed?	Free text	