**Meta-Analysis Coding Sheet Guidebook**

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Guidebook Purpose: Provides information on the labels used in the main coding sheet (referred to as *detaillit* in the excel coding workbook) as well as guidelines on coding the eligible studies (i.e. studies that have passed the Eligibility S3 stage).

**Coding Guidelines (Extracted from Lai, Forscher, & Nosek, 2019)**

* Err on the side of including too much information, rather than too little.
  + This is especially the case for variables without strict coding rules. We can always re-categorize the variables later.
* Note any difficulties or ambiguities you find while coding an article in the *CodingNotes* column of *detaillit* coding sheet.
* While coding a study on *detaillit* coding sheet, if something is ambiguous/unresolved highlight the cell for which you encountered ambiguity/difficulty as yellow if you continued to code the other aspects of the study. Add a note for why it is yellow.
* If something is ambiguous/unresolved and you stopped coding of the study (even for variables that are unambiguous), highlight the cell as orange. That means you will go back and code the study in full when the issue is resolved.
* Any information about variables that is missing in the main text is highlighted in red with the text: Not reported.

***Detaillit* Label Information**

1. **StudyID:** Unique identifier to refer to each unique study within a paper.
2. **ArticleCounter**: Counter for the number of articles in the coding sheet
3. **ExperimentCounter**: Counter for the number of experiments in the coding sheet.
4. **No.**: Index number for each row entry
5. **CoderID**: Initials of coder’s full name (e.g. MMV)
6. **DoubleCheck\_Coder**: ID of the double check coder. (*Not available on public dataset*)
7. **ArticleID**: Unique identifier to refer to each unique manuscript (or unpublished dataset if it is a standalone)
8. **StudyNo:** The study number as it is listed in the paper.
9. **StudyType**: Type of the study reported. There are three categories/types of studies in the intrusion literature: behavioral studies (these studies est behavioural manipulations on intrusion frequenct), pharmacological studies (these studies test drugs/pharmacological manipulations), neuromodulation/brain stimulation (these studies test neuromodulatory/brain stimulation techniques such as TDCS). Accepted values: Behavioural; Pharmacological; Brain Stimulation.
10. **Experimental\_Drug**: This column is only applicable for *Pharmacological StudyType*. Here we report the name of the experimental manipulation (i.e., the specific pharmacological drug) being studied in the article (e.g. Oxytocin, Cortisol).
11. **Manipulation:** Name of the manipulation as referred to in the paper (e.g. Tetris, Sleep, Suppression etc.).
12. **EffectSizeID:** Unique identifier to refer to an effect size of a dependent variable within a study. In cases of multiple DVs in a study, each DV has its own unique EffectSizeID. In studies without a no-task control condition, two or more manipulations will be compared against each other and regardless of whether the manipulation considered as experimental condition is switched to be comparison condition for the manipulation that was initially the comparison condition, the EffectSizeID remains the same for such switching because the comparison is still of the same DV.
13. **Year:** Publication year of the paper in a journal or on PsyArxiv/BioRxiv. If an unpublished manuscript is secured via other sources (e.g. emails) then for those papers, please mention NA.
14. **PublicationStatus:** Whether the paper is published or not. Entries accepted: Published, Unpublished.
15. **PublicationType:** Whether the paper is Journal Article, Preprint, Dissertation.
16. **Journal:** Name of the journal outlet in which the paper is published. For unpublished articles, please mention NA.
17. **Title:** Title of the paper.
18. **Author:** Author names (in APA format) of the paper.
19. **CorrespondenceEmail:** Email of the corresponding author of a paper.
20. **DOI:** Digital object identifier if available, if not please enter NA.
21. **ArticleSource:** Source of the article. Entries accepted: Database, Email, Others
22. **CountryofOrigin:** Country in which the study is conducted.
23. **Continent:** Continent in which the study is conducted.
24. **SampleNo**: Total number of samples in the experiment.
25. **SampleSize:** The total number of participants reported in an experiment.
26. **Female:** Total number of female participants in the experiment.
27. **FemaleRatio:** Ratio of total female participants in the experiment.
28. **MeanAge:** Mean age of all participants in an experiment..
29. **StudyDesign:** Whether the experiment is within or between-subject.
30. **IBASampleInfo:** Whether information about sample characteristics (age, gender) is provided in the paper.
31. **IBASampleRandomization**: Whether information participants randomly assigned is provided.
32. **IBAInclusion:** Whether information about inclusion criteria is provided in the paper.
33. **IBAExclusion:** Whether information about exclusion criteria is provided in the paper.
34. **IBAManipulationInfo:** Whether information about manipulation (manipulation name, procedure) is provided in the paper.
35. **IBADVInfo:** Whether information about DV and its mode of measurement is provided in the paper.
36. **IBABaselineTraumaHistory**: Whether information about study measuring participants’ baseline trauma history is provided.
37. **IBADiaryCodingReliability**: Whether information about checking for intrusion diary interrater reliability is provided.
38. **IBAAnalysisPlan**: Whether information about analysis plan is provided.
39. **IBAPeerReviewed:** Whether the article is peer-reviwed or not.
40. **IBATraumaManipulationCheck**: Whether participants’ emotional rating was recorded and reported after exposure to trauma material.
41. **TotalIBAScore**: Sum the scores from column 30 to 40.
42. **StatExtracted:** Page number, figure, or table from which the statistics is extracted to compute the effect size for the DV.
43. **ExperimentalCondition:** Name of the manipulation that is being considered as the experimental condition for that specific row. For studies with no-task control condition, the name of the experimental manipulations reported in the paper will be entered into the column of ExperimentalCondition. For studies with multiple manipulations but no no-task control condition, all manipulations will be contrasted against each other so that if on one row Manipulation 1 is entered into the ExperimentalCondition and Manipulation 2 is entered into the ComparisonCondition (see below) then in the second row Manipulation 2 will be entered into the ExperimentalCondition and Manipulation 1 will be entered into the ComparisonCondition.
44. **Level1\_ExperimentalCondition**: Use consistent terms for similar or identical experimental manipulations, when they were given different names in the original article; this is to reduce inconsistencies in adopting different terms for highly similar/identical manipulations across different articles/labs.
45. **Intrusion\_Predicted\_Direction**: State the direction specified by the researchers’ on the effect of their experimental manipulation on intrusion frequency. Accepted Entries: Increase, Decrease, Unspecified.
46. **ComparisonCondition:** The no-task control condition or alternate manipulation name (for studies that lack a no-task control condition) will be entered in this column.
47. **Level1\_ComparisonCondition**: Use consistent terms for similar or identical comparison manipulations, when they were given different names in the original article; this is to reduce inconsistencies in adopting different terms for highly similar/identical manipulations across different articles/labs.
48. **Level2\_final**: Each experimental vs. control comparison was coded as one level 2 manipulation to account for the key manipulation. (Final version used in analysis)
49. **Level3\_Type\_final**: Superordinate category based on each manipulation's underlying mechanism. Specifically, we coded each level 2 manipulation into one of the following categories: a) Pharmacological; b) Neuromodulation; c) Behavioral. Among studies using behavioral manipulation, we further coded manipulation based on the specific mental processes it targets and whether the manipulation directly targeting the analogue-trauma experience, yielding the following categories: a) Direct/Indirect imagery (tapping into perceptual-visual processing, e.g., imagery rescripting/re-experience, data-driven processing, finger tapping etc.); b) Direct/Indirect verbal (tapping into verbal processing, e.g., rumination, conceptual processing, number counting etc.); c) Direct/Indirect emotion (e.g., emotional suppression, guilt induction etc.); d) Direct/Indirect others (e.g., sleep, clay modelling, self-efficay, excercises, etc.).
50. **Level3\_Task\_Instruction\_final**: We coded manipulations as task when participants were required to engage in tasks (e.g., a finger tapping task) and to process external information (e.g., watch a humor induction movie, listen to meditation recording, interact with a dog). For manipulations that did not involve any external action nor stimuli (e.g. elaboration, abstract processing, mentally rehearse, thought suppression), we coded these as instruction.
51. **ComparisonType**: Whether the comparison condition was a No-Task condition or an active Experimental Task.
52. **ExperimentalConditionSampleSize:** Total number of participants in the Experimental condition group.
53. **ComparisonConditionSampleSize:** Total number of participants in the comparison group.
54. **StudySampleSize**: Sum of columns 52-53.
55. **TimeOfManipulation:** Whether the manipulation was administered pre, during or peri/post trauma exposure. Examples: Pre, Peri, Immediate Post, Delayed Post.
56. **TraumaInductionStimuli:** The stimuli used to experimentally induce trauma (e.g. trauma films, pictures, text). If the trauma type is real-life, then please enter the name of the trauma (e.g. motor car accident).
57. **EncodingTask:** The experimental task used to induce trauma (e.g. TNT, trauma film, stories etc.).
58. **StimuliNo.**: Total number of stimuli that compose the EncodingTask. For instance, if EncodingTask is trauma film and the paper used 6 trauma film clips, then StimuliNo. will be 6.
59. **StimuliDuration:** Total duration of the trauma induction stimuli. For instance, if total stimuli are 6 trauma film clips, the total duration of the trauma film consisting of 6 clips will be entered in this column.
60. **DependentVariables:** Name used in the paper to refer to the DV of interest for the present meta-analysis (e.g. intrusion frequency, emotional distress associated with intrusions, intrusion subscale).
61. **DependentVariablesType:** The nature of the DV. Entries accepted: Involuntary memory, Emotion, Intrusion symptom.
62. **DVTask:** Name of the task to measure the DV as referred in the paper.
63. **ModeOfMeasurement:** The category type under which the DVTask falls. Entries accepted: Intrusion diary, lab-based intrusion monitoring task, self-report questionnaire.
64. **TimeOfMeasurement:** The time at which the DV is measured.
65. **MeasurementDuration:** Duration of the DV measurement (e.g. 7 days for a study which uses 1-week long intrusion diary task.)
66. **Intrusion\_Retro\_or\_RealTim**e: Intrusion frequency recorded retrospectively or in real-time.
67. **Intrusion\_Content**: Content of intrusions recorded. Example: Image, thought, image/thought combined.
68. **ManipulationBeneficial:** Whether the experimental manipulation was effective compared to comparison condition. Accepted entries: Positive (experimental manipulation was significantly more effective than comparison condition), Negative (comparison condition was significantly more effective than experimental condition), Null (experimental and comparison condition non-significantly different from each other).
69. **ResultsSummary:** Brief description of the trend of the results.
70. **PhysioMeasures:** Name of the neuroimaging or psychophysiological technique used in the study.
71. **ClincalSymptomMeasures:** Name of the questionnaires used to measure clinical or PTSD-related symptoms post manipulation/intervention.
72. **VoluntaryMemoryMeasure**: Whether the experiment measured voluntary memory. Entries accepted: Yes, No.
73. **VoluntaryMemoryDirection:** Whether the experimental manipulation was effective compared to comparison condition at changing voluntary memory. Accepted entries: Positive (experimental manipulation was significantly more effective than comparison condition at increasing voluntary memory), Negative (comparison condition was significantly more effective than experimental condition at increasing voluntary memory), Null (experimental and comparison condition non-significantly different from each other). NA (voluntary memory not measured in the experiment).
74. **Experimental\_Mean:** Mean of the DV for the experimental condition manipulation.
75. **Experimental\_SE:** Standard error of the DV for the experimental condition manipulation.
76. **Experimental\_SD:** Standard deviation of the DV for the experimental condition manipulation.
77. **Comparison\_Mean:** Mean of the DV for the comparison group.
78. **Comparison\_SE:** Standard error of the DV for the comparison group.
79. **Comparison\_SD:** Standard deviation of the DV for the comparison group.
80. **GroupDifference:** Raw mean difference between the experimental and comparison group.
81. **T-test**: T value with df of the test comparing the experimental and comparison condition.
82. **Z-test**: Z value if provided.
83. **p value**: p value from the T test
84. **EffectSize**: Effect size value of the test comparing experimental and comparison condition.
85. **EffectSizeType**: Type of the effect size (e.g. Cohen’s d, eta squared etc.)
86. **Notes**: Coder can add notes/comments regarding any aspect of the coding procedure or stats information that they struggled with or encountered ambiguity/missing information.
87. **Mo\_Windy\_Common**: Whether the article was coded uniquely (0) or common (1) by both coders.
88. **Notes\_fromWindy**: Additional notes from Windy.
89. **DirectionSign**: Clarifies the direction of some effect size (1 = opposite where comparison > experimental mean; -1 = experimental; > comparison mean.
90. **DirectionSignMo**: Clarifies the direction of some effect size (-1 = opposite where comparison > experimental mean; 1 = experimental; > comparison mean).
91. **TraumaStimiliType**: Nature of trauma induction material. Example: Film, audio, pictures.
92. **Physio\_binary**: Whether the experiment used any physiological or neuroimaging methods. Accepted entries: Yes, No.
93. **Notes\_from\_DoubleCheckCoder**: Double check coder can add notes/comments regarding any aspect of the coding procedure or stats information that they struggled with or encountered ambiguity/missing information. (*Not available on public dataset*)
94. **Level3\_Beh\_Pharma\_Neuro**: Procedure-based classification of an experimental manipulation (Examples: Behavior, Pharmacological, Neuromodulation)
95. **Level3\_Direct\_Indirect**: Approach of Behavior experimental manipulations as to whether they involve direct re-engagement with the trauma material or not (Examples: Direct, Indirect)
96. **Level3\_Imagery\_Verbal\_Emotion\_Other**: Mechanistic-based categorization of Behavior experimental manipulations based on their underlying mechanisms (Examples: Imagery, Verbal, Other, Emotion)
97. **Level3\_Task\_Instruction**: Modality-based categorization of Behavior experimental manipulations based on how they administered (as a task with behavior output or simply through instructions to adopt a thinking style). Examples: Task, Instruction