This registered report describes a meta-analysis of fear conditioning (acquisition, extinction) and anxiety-based individual differences. I think that the justification is sound, the proposed methods are rigorous and the topic worthwhile. I am particularly impressed by the proposed rigour of the study. I have only a few minor comments below to make on this draft report:

The first sentence of the introduction states “Anxiety-related conditions such as generalized anxiety, obsessive-compulsive, or post traumatic stress disorders”, but (1) PTSD is no longer considered to be an anxiety disorder under the DSM and (2) PTSD symptomology is not considered in this meta-analysis. Suggest removing PTSD from the first sentence as it wrongly sets expectations for what the meta-analysis will include

Page 4 – “Reducing these individual and societal costs requires understanding why some individuals, but not others, develop anxiety-related conditions - for instance, following adverse life events”. The ending of this sentence feels incomplete – the example “following adverse life events” doesn’t well describe the issue introduced in the first half of the sentence.

Page 5 – HiTOP abbreviation used for the first time – should be spelled in full on first use

pupil dilation (PD)) – double closed bracket should be corrected

“Additional aspects such as reinforcement rate or the specific type of instructions (see e.g., Lonsdorf et al., 2017)”. Some instances of the referencing are biased towards the Lonsdorf review. I don’t have a problem with that review being cited in cases like this but I think it is fairer to cite empirical work (especially first demonstrations) that describe the exact topics being described, rather than a broad review of the work. For example, for generalization there is a meta-analysis on the topic recently published (Cooper et al 2022), and there are empirical studies/reviews that have examined reinforcement rate and specific instructions (e.g., Luck & Lipp, 2016)

Page 6 “limited extent, (Lissek et al., 2006)while weak” – spacing should be corrected

Page 12 “Studies employing avoidance or eye blink conditioning will be excluded as well as studies implementing only context conditioning while cue conditioning experiments implementing additional context manipulations will be included” needs some punctuation to break up the phrases in this sentence

Page 15 “package compute.es (Del Re, 2010), version will be added at stage 2)” – correct parentheses here

Page 16 “Based on a priori power analysis, at least 10 effect sizes from the literature have to be extracted for associations between acquisition or extinction training and anxiety-related traits to justify fitting the described models” – are the authors suggesting that if fewer than 10 effect sizes are obtainable then no meta-analysis will be attempted?

Please also confirm here that the difference measurements will be analysed separately