Multimedia Appendix 6. Credibility of Effect Modification Analyses (ICEMAN) instrument

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1: Was the direction of the eff	ect modification correctly hypot	thesized a priori?					
[] Definitely no	[] Probably no or unclear	[] Probably yes	[X] Definitely yes				
Clearly post-hoc or results inconsistent with hypothesized direction or biologically very implausible	Vague hypothesis or hypothesized direction unclear	No prior protocol available but unequivocal statement of a priori hypothesis with correct direction of effect modification	Prior protocol available and includes correct specification of direction of effect modification, e.g., based on a biologic rationale				
Comment: Described in the protocol available at https://www.medrxiv.org/content/10.1101/2020.11.03.20225102v1.full.pdf							
2: Was the effect modification supported by prior evidence?							
[] Inconsistent with prior evidence	[] Little or no support or unclear	[] Some support	[X] Strong support				
Prior evidence suggested a different direction of effect modification	No prior evidence or consistent with weak or very indirect prior evidence (e.g., animal study at high risk of bias) or unclear	Consistent with more limited or indirect prior evidence (e.g., large observational study, nonsignificant effect modification in prior RCT, or different population)	Consistent with strong prior evidence directly applicable to the clinical scenario (e.g., significant effect modification in related RCT)				
health in the general population • Journal of affective of	two recent RCTs assessing the egals: disorders 2016; 203: 30-7. disorders 2019; 246: 695-705.	fectiveness of a digital health inte	ervention to promote mental				
3: Does a test for interaction s irrespective of number of effect	uggest that chance is an unlikely	y explanation of the apparent ef	fect modification? (consider				
[] Chance a very likely explanation	[] Chance a likely explanation or unclear	[X] Chance may not explain	[] Chance an unlikely explanation				
Interaction p-value >0.05	Interaction p-value ≤0.05 and >0.01, or no test of interaction reported and not computable	Interaction p-value ≤0.01 and >0.005	Interaction p-value ≤0.005				
Comment:							
4: Did the authors test only a small number of effect modifiers or consider the number in their statistical analysis?							
[] Definitely no	[] Probably no or unclear	[] Probably yes	[X] Definitely yes				
Explicitly exploratory analysis or large number of effect modifiers tested (e.g., greater than 10) and multiplicity not considered in analysis	No mention of number or 4-10 effect modifiers tested and number not considered in analysis	No protocol available but unequivocal statement of 3 or fewer effect modifiers tested	Protocol available and 3 or fewer effect modifiers tested or number considered in analysis				
Comment: Three effect modifie	rs tested						
5: If the effect modifier is a couse of psychotherapy and of psy	ntinuous variable, were arbitra /chotropic medications)	ry cut points avoided? [X] not a	applicable: not continuous (for				
[] Definitely no	[] Probably no or unclear	[X] Probably yes	[] Definitely yes				
Analysis based on exploratory cut point (e.g., picking cut point associated with highest interaction p-value)	Analysis based on cut point(s) of unclear origin	Analysis based on pre-specified cut points, e.g., suggested by prior RCT	continuum, e.g., assuming a linear or logarithmic relationship				
Comment: For the only continue	ous effect modifier variable the cu	nt point was based on statistical cr	riteria (median)				
6 Optional: Are there any add	litional considerations that may	increase or decrease credibility	? (manual section 2.6)				
	[] Yes, probably decrease	[X] Yes, probably increase					

7: How would you rate the overall credibility of the proposed effect modification?

The overall rating should be driven by the items that decrease credibility. The following provides a sensible strategy:

- All responses definitely or probably reduced credibility or unclear → very low
- Two or more responses definitely reduced credibility → maximum usually low even if all other responses satisfy credibility criteria
- One response definitely reduced credibility → maximum usually moderate even if all other responses satisfy credibility criteria
- Two responses probably reduced credibility → maximum usually moderate even if all other responses satisfy credibility criteria
- No response options definitely or probably reduced credibility → high very likely

Place a mark on the continuous line (or type "x" in electronic version)

Ī				X
	Very low credibility	Low credibility	Moderate credibility	High credibility
	Very likely no effect modification Use overall effect for each subgroup	Likely no effect modification Use overall effect for each subgroup but note remaining uncertainty	Likely effect modification Use separate effects for each subgroup but note remaining uncertainty	Very likely effect modification Use separate effects for each subgroup