## Report Supplementary Material 15: GRADE Assessment of Outcome Evaluations – Short-term Outcomes

Question: Interventions for mental wellbeing compared to treatment as usual for mental health outcomes (short-term)

Setting: Short-term

Certainty assessment								•			
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Impact	Certainty	Importance		
Externalisin	Externalising problems										
18	randomised trials	serious <sup>a</sup>	not serious	not serious	serious <sup>b</sup>	none	SMD 0.30 SD lower (95% CI 0.53 to 0.08 lower)	⊕⊕ Low			
Internalising	problems					I		1			
12	randomised trials	serious <sup>a</sup>	serious <sup>c</sup>	not serious	serious <sup>b</sup>	none	SMD 0.35 SD lower (95% CI 0.61 to 0.08 lower)	⊕ ◯ ◯ Very low			
Anxiety and	Anxiety and depression										
8	randomised trials	seriousª	not serious	not serious	serious <sup>b</sup>	publication bias strongly suspected <sup>d</sup>	SMD 0.26 SD lower (95% CI 0.40 to 0.13 lower)	⊕ ◯ ◯ Very low			
Self-harm ar	I nd suicidal ideation	1				<u> </u>		<u> </u>	<u> </u>		
1	randomised trials	serious <sup>a</sup>	not serious	not serious	extremely serious•	none	HealthRHYTHMS (Bittman, 2009) No effect on frequency self-harm: SMD 0.19 SD lower (95% CI 0.85 lower to 0.48 higher) No effect on suicidal ideation: SMD 0.27 SD lower (95% CI 0.94 lower to 0.39 higher)	⊕ ◯ Very low			
Subjective w	vellbeing					I		1			
1	randomised trials	serious <sup>a</sup>	not serious	not serious	extremely seriouse	none	Wave by Wave Surf Therapy (Pereira, 2020): No effect on health related QoL: SMD 0.25 SD higher (95% CI 0.76 higher to 0.26 lower)	⊕ ◯ ◯ Very low			
Total impaire	Total impaired functioning										
10	randomised trials	serious <sup>a</sup>	not serious	not serious	serious <sup>b</sup>	none	SMD 0.18 SD lower (95% CI 0.31 to 0.05 lower)	⊕⊕ Low			

Total problems

	Certainty assessment								
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Impact	Certainty	Importance
11	randomised trials	serious <sup>a</sup>	not serious	not serious	serious <sup>b</sup>	none	SMD 0.15 SD lower (95% CI 0.28 to 0.02 lower)	⊕⊕ Low	

CI: confidence interval

## **Explanations**

- a. All trials included appraised as 'some concerns'
- b. Confidence interval includes the MID of 0.2 SD.
- c. Between-study variance more than 50% of total variance in meta-analysis
- d. Robust Egger's regression yields one-sided p<0.05
- e. Confidence interval includes the MID on both sides of the null effect.

## **GRADE Assessment of Outcome Evaluations – Long-term Outcomes**

Question: Interventions for mental wellbeing compared to treatment as usual for mental health outcomes (long-term)

Setting: Long-term

Certainty assessment									
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Impact	Certainty	Importance
Externalising	ternalising problems								
9	randomised trials	serious <sup>a</sup>	not serious	not serious	very serious <sup>b</sup>	publication bias strongly suspected <sup>o</sup>	SMD 0.02 SD higher (95% CI 0.17 lower to 0.20 higher)	⊕ ◯ ◯ Very low	
nternalising	problems								
7	randomised trials	serious <sup>a</sup>	not serious	not serious	extremely serious <sup>d</sup>	none	SMD 0.03 SD lower (95% CI 0.31 lower to 0.25 higher)	⊕ ◯ ◯ Very low	
Anxiety and	depression								
4	randomised trials	very serious	serious!	not serious	extremely serious <sup>3</sup>	none	Fostering Individualised Assistance Program (Clark, 1994): No effect on child or parent-rated anxiety/depression or withdrawal  Triple P for Foster Parents (Job, 2022): No effect on anxiety symptoms  Mentoring intervention for teenage pregnancy (Mezey, 2015) No effect on anxiety/depression  Take Charge intervention (Geenen, 2012) Lower anxiety/depression score at 12 months, self-rated (SMD 0.44 SD lower, 95% Cl: 0.79 lower to 0.18 lower) and parent rated (SMD 0.65 SD lower, 95% Cl: 1.02 lower to 0.29 lower) Lower withdrawal/depression score at 12 months, parent rated (SMD 0.41 SD lower, 95% Cl: 0.77 lower to 0.05 lower) Lower anxiety/depression score at 18 months, parent rated (SMD 0.36 SD lower, 95% Cl: 0.71 lower to 0.00 lower) Lower withdrawal/depression score at 18 months, parent rated (SMD 0.37 SD lower, 95% Cl: 0.73 lower to 0.01 lower)	Very low	
elf-harm an	d suicidal ideation	l							•
1	randomised trials	very serious <sup>h</sup>	not serious	not serious	extremely serious <sup>d</sup>	none	Mentoring intervention for teenage pregnancy (Mezey, 2015): No effect on reported incidents of self-harm or suicide attempts	⊕ ◯ ◯ Very low	

Subjective wellbeing SMD 0.03 SD higher (95% CI 0.63 lower to 0.69 higher)

	Certainty assessment									
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Impact	Certainty	Importance	
1	randomised trials	serious <sup>i</sup>	not serious	not serious	very serious <sup>b</sup>	none	Fostering Healthy Futures (Taussig, 2010)  Higher health related quality of life at 9 months post intervention: SMD 0.42 SD higher (95% CI 0.12 higher to 0.71 higher)  No effect on health related quality of life at 15 months: SMD 0.14 SD higher (95% CI 0.17 lower to 0.45 higher)	⊕ ◯◯ Very low		
Total impaire	d functioning									
8	randomised trials	very serious <sup>e</sup>	not serious	not serious	very serious <sup>b</sup>	none	SMD 0.15 SD lower (95% CI 0.40 lower to 0.09 higher)	⊕ ◯ ◯ Very low		
Total problen	Total problems									
6	randomised trials	serious	not serious	not serious	extremely serious <sup>d</sup>	none	SMD 0.07 SD lower (95% CI 0.38 lower to 0.25 higher)	⊕ ◯ ◯ Very low		

CI: confidence interval

## **Explanations**

- a. All trials rated as 'some concerns' or 'high risk' but 'high risk' <25% of included trials
- b. Confidence interval includes the MID of 0.2 SD and the null effect.
- c. Robust Egger's regression yields one-sided p<0.05.
- d. Confidence interval includes the MID on both sides of the null effect.
- e. All trials rated as 'some concerns' or 'high risk' but 'high risk' >25% of included trials
- f. Visual inspection of effect estimates suggests substantial spread within and between studies.
- g. Evidence could not be pooled.
- h. Trial rated 'high risk'
- i. Trial rated as 'some concerns'
- j. All trials rated as 'some concerns'