

EVIDENCE ANNEX

Parenting Through Adversity Practice Guide: Parents of babies and children o to 10

Introduction

The following annex sets out the evidence underpinning each of the four recommendations specified in the Practice Guide. Influenced by our evidence toolkit standards, the table pulls out the key methodological information which defines the strength of evidential certainty behind our recommendations. We also provide a background to the evidence underpinning our principles, as well as providing recommendations for further reasearch and testing in England. A reference list of evidenced studies can be found at the end of this document.



Evidence underpinning recommendations

Recommendation	Outcome	No. of trials	No. of effect sizes included	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
Recommendation 1: Evidence-based parenting interventions should be made available to families as part of integrated strategies to reduce the risk of more serious harm to children.	Child maltreatment	14	35	d = -0.20 95%CI = -0.41, 0.01 This is a non- significant effect in the direction of parenting interventions reducing maltreatment including harsh parenting within 6-	67%	34%	Promising	The overall effect size indicated that parenting interventions did not have a significant impact on reducing maltreatment, including that of harsh parenting. We identified a single study¹ associated with child maltreatment reduction (contributing to the evidence rating). Lau (2011, <i>Incredible Years School Age Basic</i> + <i>Advance</i>) found a significant effect size (<i>d</i> = -0.97, CI 95% = -1.57, -0.38)

¹ Robling, 2015, *Family Nurse Partnership* found a significant effect size (d = 0.30, CI 95% = 0.07, 0.53) on recording of safeguarding procedures. As this was associated with detection, as opposed to reduction, it did not contribute to the strength of evidence rating.

Recommendation	Outcome	No. of trials	No. of effect sizes included	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
				months post intervention.				on negative discipline as measured by the Alabama Parenting Questionnaire.
Recommendation 2: Make evidence-based parenting interventions available to families with a child aged 0 to 3 years to strengthen parent-child relationships.	Parent-child relationships	23	57	d = 0.34**; 95%CI = 0.16, 0.52 This is a significant (p = <.01) effect in the direction of parenting interventions strengthening parent-child relationships within 6-months post intervention.	76%	74%	Strong	The overall effect size indicated that parenting interventions can significantly lead to a strengthening of parentchild relationships within six months postintervention. We identified two or more studies, with low risk of bias, with a sample size of 20 or higher in each group which demonstrated significance. Examples were My Baby's First Teacher (Herbers, 2020) and a Mother-baby intervention: Home visitation intervention (van Doesum, 2020). Herbers

Recommendation	Outcome	No. of trials	No. of effect sizes included	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
								(2020) identified a significant result on Parent-Infant Responsiveness (d = 0.64, CI 95% = 0.04, 1.24) while van Doesum (2008) identified several significant effect sizes. For example, on the subscale 'Child Responsiveness' of the Emotional Availability Scales (d = 0.67, CI 95% = 0.19, 1.15).
Recommendation 3: Make evidence-based parenting interventions available to families to improve child behaviour and improve effective parenting practices.	o-6 months (overall behaviours)	47	209	d = -0.32***; 95%CI = -0.43, -0.22 This is a significant (p = <.001) effect in the direction of parenting interventions	67%	58%	Strong	The overall effect size indicated that parenting interventions can significantly improve child overall behaviours within six months post-intervention. We also identified two or more studies, with low risk of bias, with a sample size of 20 or higher in each group

Recommendation	Outcome	No. of trials	No. of effect sizes included	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
				improving child overall behaviours within six months post intervention.				and which did indicate significance. Examples were <i>Incredible Years</i> (McGilloway, 2012) and <i>Triple P</i> (Little, 2012). McGilloway (2012) identified a significant effect size on 'child behaviour problem' ($d = -1.13$, CI 95% = -1.52 , -0.75). Little (2012) identified a significant effect size on the subscale 'conduct problems' of the Strengths and Difficulties questionnaire ($d = -0.35$, CI 95% = -0.69 , -0.02).
Recommendation 3: Make evidence-based parenting interventions available to families to improve child behaviour	6+ months (overall behaviours)	9	34	d = -0.26*; 95%CI = -0.48, -0.04 This is a significant (p =	77%	91%	Strong	The overall effect size indicated that parenting interventions can significantly improve child overall behaviours after six months post-intervention.

Recommendation	Outcome	No. of trials	No. of effect sizes included		Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
and improve effective				<.05) effect in				We also identified two or
parenting practices.				the direction of				more studies, with low risk
				parenting				of bias, with a sample size of
				interventions				20 or higher in each group
				improving child				and which did indicate
				overall				significance. Examples were
				behaviours				Incredible Years
				over 6 months				(Karjalainen, 2019) and
				post-				Promoting First
				intervention.				Relationships (Oxford,
								2021). Karjalainen (2019)
								found a significant effect
								size on, for example, on the 'problem' subscale of the
								Teacher Report Form $(d = -$
								1.57, CI 95% = -2.08, -1.06)
								while Oxford (2021)
								identified a significant
								reduction on the subscale
								'infant externalizing
								behavior' of the Infant
								Toddler Social Emotional
								Assessment (ITSEA) ($d = -$

Recommendation	Outcome	No. of trials	No. of effect sizes included	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
								0.28, CI 95% = -0.53, - 0.03).
Recommendation 3: Make evidence-based parenting interventions available to families to improve child behaviour and improve effective parenting practices.	o-6 months (externalising behaviours)	42	159	d = -0.32***; 95%CI = -0.44, -0.21 This is a significant (p = <.001) effect in the direction of parenting interventions improving child externalising behaviours within 6-months post intervention.	69%	56%	Strong	The overall effect size indicated that parenting interventions can significantly improve externalizing behaviours within 6 months post-intervention. We also identified 2 or more studies, with low risk of bias, with a sample size of 20 or higher in each group and which did indicate significance. Examples were 2 studies of the same programme <i>Incredible Years</i> . Karjalainen (2019) identified a significant reduction in the 'Problem' subscale of the Eyberg Child Behavior Inventory (<i>d</i> = -

Recommendation	Outcome	No. of trials	No. of effect sizes included	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
								0.69, CI 95% = -1.09, -0.28) while McGilloway (2012) identified, for example, a significant reduction on the measure 'child problem behaviour' (d = -1.13, CI 95% = -1.52, -0.75).
Recommendation 3: Make evidence-based parenting interventions available to families to improve child behaviour and improve effective parenting practices.	6+ months (externalising behaviours)	8	28	d = -0.23*; 95%CI = -0.42, -0.03 This is a significant (p = <.05) effect in the direction of parenting interventions improving child externalising behaviours 6+ months post- intervention.	75%	93%	Strong	The overall effect size indicated that parenting interventions can significantly improve externalizing behaviours for six months or longer post-intervention. We also identified two or more studies, with low risk of bias, with a sample size of 20 or higher in each group and which did indicate significance. Examples were Family Check-Up (Dishion, 2008) and Incredible Years

Recommendation	Outcome	No. of trials	No. of effect sizes included	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
								(Karjalainen, 2019). Dishion (2008) found a significant reduction in the 'intensity' score of the Eyberg Child Behavior Inventory (d = -0.26, CI 95% = -0.41, -0.10). Karjalainen (2019) found, for example, a significant reduction on the 'problem' subscale of the Sutter-Eyberg Student Behavior Inventory-Revised (d = -2.30, CI 95% = -2.87, -1.73).
Recommendation 3: Make evidence-based parenting interventions available to families to improve child behaviour and improve effective parenting practices.	Positive Parenting	51	135	$d = 0.33^{***}$; 95%CI = 0.24, 0.41 This is a significant ($p = <.001$) effect in the direction of parenting	68%	59%	Strong	The overall effect size indicated that parenting interventions can significantly increase the use/awareness of positive parenting practices. We also identified two or more studies, with low risk of bias, with a sample size of

Recommendation	Outcome	No. of trials	No. of effect sizes included	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
				interventions increasing the use/awareness of positive parenting practices within 6- months post intervention.				20 or higher in each group and which did indicate significance. Examples were two studies of the same programme <i>Incredible Years</i> . Arrubarrena (2022) found, for example, a significant effect on the subscale Verbal praise & incentives of the Parenting Practices Interview (<i>d</i> = 0.88, CI 95% = 0.46, 1.30). Lau (2011) found a significant effect on the subscale 'Positive Involvement of the Alabama Parenting Questionnaire (<i>d</i> = 0.71, CI 95% = 0.13, 1.29).
Recommendation 3: Make evidence-based parenting interventions available to families to	Negative Parenting	30	78	d = -0.47***; 95%CI = -0.63, -0.31	77%	62%	Strong	The overall effect size indicated that parenting interventions can significantly reduce the

Recommendation	Outcome	No. of trials	No. of effect sizes included	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
improve child behaviour				This is a				use/awareness of negative
and improve effective				significant ($p =$				parenting practices within
parenting practices.				<.001) effect in				six months post-
				the direction of				intervention. We also
				parenting				identified two or more
				interventions				studies, with low risk of
				reducing the				bias, with a sample size of
				use/awareness				20 or higher in each group
				of negative				and which did indicate
				parenting				significance. Examples were
				practices				two studies of the same
				within six				programme <i>Incredible</i>
				months post				Years. Boyd (2017) found a
				intervention.				significant improvement in
								self-reported parenting
								discipline ($d = -0.87$, CI 95%
								= -1.42, -0.31). Hutchings
								(2007) found a significant
								reduction on the subscale
								'harsh parenting' of the
								Parenting Practices

Recommendation	Outcome	No. of trials	No. of effect sizes included	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
								Interview (d = -0.91, CI 95% = -1.26, -0.55).
Recommendation 4: Make evidence-based parenting interventions available to reduce levels of parenting stress and support parental mental health.	Parenting stress	35	62	d = -0.19**; 95%CI = -0.31, -0.08 This is a significant (p = <.01) effect in the direction of parenting interventions reducing parenting stress within six months post intervention.	90%	60%	Strong	The overall effect size indicated that parenting interventions can significantly reduce parenting stress within six months post-intervention. We also identified two or more studies, with low risk of bias, with a sample size of 20 or higher in each group and which did indicate significance. Examples were <i>Triple P</i> (Jones, 2017) and <i>Incredible Years</i> (Hutchings, 2007). Jones (2017) identified a significant effect on the Parenting Stress Index (<i>d</i> = -0.53, CI 95% = -0.99, -0.08) while Hutchings

Recommendation	Outcome	No. of trials	No. of effect sizes included	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
								(2007) also identified a significant reduction on the Parenting Stress Index (<i>d</i> = -0.55, CI 95% = -0.89, -0.20).
Recommendation 4: Make evidence-based parenting interventions available to reduce levels of parenting stress and support parental mental health.	Parental mental health	47	117	d = -0.17**; 95%CI = -0.28, -0.06 This is a significant (p = <.01) effect in the direction of parenting interventions improving parental mental health within six months post intervention.	71%	67%	Strong	The overall effect size indicated that parenting interventions can significantly improve parental mental health within six months post-intervention. We also identified two or more studies, with low risk of bias, with a sample size of 20 or higher in each group and which did indicate significance. Examples were My Baby's First Teacher (Herbers, 2020) and Parent Aide (Guterman, 2013). Herbers (2020) identified a

Recommendation	Outcome	No. of trials	Effect size & 95% confidence intervals	Hetero geneity	% of studies assessed to have a low risk of bias	Strength of evidence rating	Summary of findings
							significant result on the subscale 'parent distress' of the Hopkins Symptom -25 checklist (d = 0.71, CI 95% = 0.10, 1.31) while Guterman (2013) identified a significant reduction on the subscale 'maternal depression' of the Brief Symptoms Inventory (d = -0.47, CI 95% = -0.87, -0.07).

Evidence underpinning principles

We have used a broad range of evidence-rich sources to underpin the 'Key Principles' section of the Practice Guide. These include a qualitative systematic review, our advisory group, and in-house experience and knowledge of parenting interventions.

Qualitative systematic review

A qualitative systematic review was written to help answer research questions pertaining to the views of parents and practitioners concerning the value of the parenting interventions. In the first instance, 466 studies were screened, of which 33 were included in



the final review. Findings related to broad themes of practitioner skillset, multi-agency working, data procedures, and holistic, whole-family working.

Advisory group

Before work on the Practice Guide began, we developed a long-list of academics, stakeholders and professionals within the field. We have met face-to-face multiple times across the course of the writing the review and Guide, as well as correspondence over email. The aim of the advisory group has been to help with designing the aims of the review, unpicking its findings and with writing the Guide itself. By including a broad range of perspectives, the principles are a reflection of key voices in the sector and will hopefully ensure the Guide can have meaningful impact to its readers.

In-house expertise

The team working on the Guide bring with them their own practical and methodological expertise. Those who have written and contributed to the 'Key Principles' section, and to the Guide itself have experience working in local authorities, government, and intervention evaluation.

Recommendations for further evaluation and testing of interventions in England

- Further testing should be conducted on the extent to which individual practice elements contribute to the effectiveness of parenting programmes for parents of multiple and complex needs. This includes testing whether routine practice might be strengthened by incorporating some of the practice elements of effective programmes in wider case work and support for families. This approach would also be relevant where effective programmes cannot be delivered or are unavailable, or for parents who cannot be engaged to attend, where the delivery of core components from effective parenting programmes might help to improve outcomes.
- More research is needed to test the programme features and family and contextual circumstances that influence the effectiveness of
 parenting programmes. This includes further sub-group analyses to better understand what works and for whom.

- There is a need for more studies that utilise objective measures of outcomes related to child maltreatment rather than the parent-report and proxy measures that are currently predominant, and for more studies that involve longer follow-up periods. There would also be value in more head-to-head trials comparing the effectiveness of different programmes.
- Research is needed to assess whether programme effects sustain over time, and if not, how the benefits of these programmes can be sustained or boosted with this group of parents. Only a small number of trials included in the meta-analysis (n = 16, 16.8%) assessed outcomes beyond six months after intervention completion.
- The evidence base would also benefit from more studies of implementation, testing specific implementation strategies across contexts, scale-up, and sustainability.

Go to the Parenting Through Adversity Practice Guide (0-10): www.foundations.org.uk/practice-guides/parenting-through-adversity-0-10

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References

Recommendation 1

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Recommendation 2

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Recommendation 3

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Recommendation 4

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