ORIGINAL ARTICLE

A community led approach to delivery of the Parents Plus Children’s Programme for the parents of children aged 6-11

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Abstract  Childhood internalising and externalising disorders tend to persist when left untreated and place affected individuals at higher risk of compromised outcomes. The social costs include school dropout, unemployment, family breakdown and substance abuse. Effective preventive interventions require a public health approach. The aim of this experimental study was to evaluate the effectiveness of the Parents Plus Children’s Programme (PPCP) delivered in community and school contexts by frontline professionals from diverse backgrounds. Participating parents with children aged 6 to 11 were randomly assigned to a Treatment Group \((n = 44)\) or a no treatment Control Group \((n = 31)\). The efficacy of training was assessed using self-report questionnaires completed by participants in both Treatment and Control groups. Significant post treatment improvements were recorded on measures of parenting-related stress, child problem behaviour and parent satisfaction with medium to large effect sizes. Treatment group results were maintained at six-month follow-up. These results support the efficacy of the PPCP as a community led intervention with potential to prevent and interrupt child behaviour problems thorough supported parenting practice, before problems become critical and entrenched.

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KEYWORDS
Parents Plus; Behaviour problems; Parent training; Community study; Experimental study

PALABRAS CLAVE
Parents Plus; Problemas de comportamiento; Educación de los padres; Estudio comunitario; Estudio experimental

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The quality of parenting behaviour is thought to shape the emotional climate of the family and to play an important role in children's psychosocial development (Morris, Silk, Myers, & Robinson, 2007). Specifically, harsh parental practice, negativity and rejection have been widely associated with the development of child internalising and externalising behaviours (Berkien, Louwerse, Verhulst, & van der Ende, 2012; Cunningham & Ollendick, 2010; Furlong et al., 2012; Rogosch, Dackis, & Cicchetti, 2011). In fact, the quality of the parent-child relationship is more influential than family structure or income in fostering children's social and emotional development (Nixon, 2012).

Behaviour problems are the most common reason for referral to psychological and psychiatric services in childhood (National Institute for Health and Clinical Excellence, NICE, 2006). In particular, associations have been reported between early disruptive behaviours, delinquency and school failure (Dodge, Greenberg, & Malone, 2008; Webster-Stratton, Rinaldi, & Reid, 2011) risk of criminality (Piquero, Farrington, & Blumstein, 2003) substance misuse (Clark, Parker, & Lynch, 1999; Disney, Elkins, McGue, & Iacono, 1999) and accelerated progression to polysubstance use (Mason, Kosterman, Hawkins, Haggerty, & Spoth, 2003). These troubled children have a tenfold risk of school drop-out (Cataldi, Laird, & KewalRamani, 2009) with about half of children identified as difficult at age three continuing to engage in disordered behaviour at age nine (Campbell, 1995). Disruptive problem behaviour in childhood is associated with later increased risks of inter-partner violence and with parenting difficulties (Raudino, Woodward, Ferguson, & Horwood, 2012).

Over time behavioural problems become stable and more difficult to treat (Bierman et al., 1996) and in financial terms cost various public services up to ten times more (Furlong et al., 2012). Predictably, these children with elevated symptoms of depression, general anxiety, fearfulness and social anxiety, find life less satisfying than their peers (Clefberg-Liberman, Altuzarra, Öst, & Ollendick, 2012). Parents of children with emotional and behavioural disorders need extra support to enable them to develop positive parenting strategies. Their experiences often include a greater financial load, interruptions to work, family conflict, fatigue and sadness (Taylor-Richardson, Heflinger, & Brown, 2006). Parent stress is significantly related to child internalising and externalising behaviours (Anthony et al., 2005) with detrimental effects to parent and child mental health (Meltzer, Ford, Goodman, & Vostanis, 2011). For example, Stormshak, Bierman, McMahon, and Lengua (2000) found that parenting practices that included punitive interactions was associated with elevated rates of all child disruptive behaviour. Halpenny, Nixon, and Watson (2010) found greater use of physical punishment among stressed parents. Kiff, Lengua, and Żalewski (2011) also reported evidence of this bidirectional relationship. Children high in irritability and impulsivity were found to be more vulnerable to the adverse effects of negative parenting. In turn, many negative parenting behaviours predicted increases in these characteristics.

Group-based parenting programmes significantly reduce childhood behavioural problems, develop parenting competencies, improve parent-child interactions and reduce parental stress (Barlow, Smalagic, Ferriter, Bennett, & Jones, 2012; Barlow, Smalagic, Huband, Roloff, & Bennett, 2012; Finzi-Dottan, Bilu, & Golubchik, 2011; Furlong et al., 2012; Hutchings et al., 2007; Scott & Dadds, 2009). A variety of evidence-based programmes that are effective in the management of early onset conduct problems have been developed (Hahlweg, Heinrichs, Kuschel, Bertram, & Naumann, 2010; Skerketch & Dumas, 1996). For example, a meta-analysis by McCart, Priester, Davies, and Azen (2006) of thirty parent training programmes and forty-one child focused programmes found that for children under twelve, parent training was significantly more effective than child focused programmes. Likewise, a review by Sandler, Schoenfelder, Wolchik, and MacKinnon (2011) of forty-six experimental parenting interventions also reported significant long-term benefits to mental, emotional and developmental health and behavioural competence.

Reaching sufficient numbers of those in need is challenging as some parents view Child and Adolescent Mental Health Services (CAMHS) as stigmatising (Hutchings & Webster-Stratton, 2004; Kilroy et al., 2011; Rooke et al., 2004). Furthermore international estimates suggest that just 10% of children with problem behaviour access specialist services (Hutchings, 1996). A framework for overcoming these challenges is based on recent evidence validating the effectiveness of community-based parenting programmes (Hand, Ni Raghallaigh, Cuppage, Coyle, & Sharry, 2012; Hutchings, Bywater, Williams, Shakespeare, & Whitaker, 2009; Kilroy et al., 2011; McGilloway et al., 2012). This evidence confirms the utility of parenting programmes in preventing a wide range of problem outcomes while promoting competencies up to twenty years later (Sandler et al., 2011). In this regard, early intervention is key since it is more difficult to influence the developmental trajectory later in childhood (Bayer et al., 2011; Shonkoff & Phillips, 2000).

The Parents Plus Programmes are evidence-based parenting programmes based on social learning principles. There are three versions of the Programmes addressing the needs of parents of preschool (1-6), primary school age
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(6-11) and adolescents (11+). Several studies substantiate the efficacy of these programmes in reducing childhood behaviour problems and associated parental stress in a variety of contexts (e.g. Behan, Fitzpatrick, Sharry, Carr, & Waldron, 2001; Coughlin, Sharry, Fitzpatrick, Guerin, & Drumm, 2009; Griffin, Guerin, Sharry, & Drum, 2010; Hand et al., 2012; Kilroy et al., 2011; Quinn, Carr, Carroll, & O’Sullivan, 2007; Sharry, Guerin, Griffin, & Drumm, 2005). The current study concerns the Parents Plus Children’s Programme (PPCP) (Sharry & Fitzpatrick, 2007). The PPCP equips parents with the skills for non-coercive approaches to parenting and teaches parents how to promote attachment, pro-social behaviour and assist their child with learning. DVD footage of parents who previously participated in the programme provides evidence of the relevance and effectiveness of the ideas. The PPCP is fully manualised and has an established process of facilitator training plus a quality delivery protocol which includes follow-up supervision and support. Weekly session rating forms completed by participants identify parents who may be struggling, keeps course content relevant to participant needs and informs programme adaptations. In a previous evaluation of the PPCP within a clinical setting, Coughlin et al. (2009) reported a significant decrease in child conduct problems and parental stress and an increase in parental confidence and parent-defined goals. Positive changes were maintained over five-months. A follow-up community study by Hand et al. (in press) on the effectiveness of a modified PPCP as an intervention for parents of children with mild intellectual disabilities found similar reductions is clinical range scores.

While the effectiveness of the PPCP as an intervention has been established in clinical settings (e.g. Coughlin et al., 2009; Hand et al., in press) the literature does not address the effectiveness of the PPCP programme as a community based intervention. The current study aims to addresses this gap by evaluating the effectiveness of the PPCP when delivered to parents of children aged six to eleven in school and community settings by frontline professional staff who underwent facilitator training. Specifically, the study aims to: a) evaluate the effectiveness of the PPCP in this community context; b) determine whether improvements are maintained at six-month follow-up.

Method

Study design

This study employed a Randomised Controlled Trial (RCT) design with parallel-groups. Time (1, 2 and 3) and Group (Treatment and Control) were the independent variables. Pre and post-intervention data were analysed using a series of 2 x 2 mixed factorial ANOVAs conducted on all measures of interest (with alpha set at .05). The Statistical Package SPSS 19 was used to analyse the data. Each analysis compared results between the Control group (CG) and Treatment group (TG) (between subjects). The measures were obtained pre-intervention (Time 1 (T1)), post-intervention (Time 2 (T2)) and at six-month follow-up for the TG (Time 3(T3)) (within subject). The dependent variables included measures of child and parent psychological distress and difficulty.

Participants

Three primary schools were selected to take part in the study and a two day PPCP training was provided to study facilitators including Home School Liaison Teachers and Primary Care professionals. Parents of 125 children aged 6 to 11 years with children attending the schools, were given an open invitation. Families identified by school staff as ‘most in need’, were also targeted. Participating parents were randomly allocated to a TG (n = 44) or CG (n = 31) by an independent Research Assistant who was not otherwise involved in this research. No exclusionary criteria were applied. Only 10 fathers attended training (13%), out of a participant total of 75. Children of participants were not in receipt of clinical services at the time of the study. Following the 8-week training programme, 63 out of 75 (84%) participating families were successfully followed up (TG = 36 (81%); CG = 27 (87%)). Six months post training 20 out of 44 (45%) TG parents again completed questionnaires. This study was approved by the Ethics Committee at the Mater Hospital, Dublin.

Instruments

- The Strengths and Difficulties Questionnaire (SDQ) (Goodman, 1997) is a 25-item screening instrument relevant to the mental health and behaviour of children and adolescents aged 4 to 16 years. It has five subcales: Emotional Problems, Conduct Problems, Hyperactivity, Peer Problems and Pro-social Behaviour. Recently, Goodman and Goodman (2011) reported that SDQ mean total difficulty scores closely predict prevalence of clinical levels of child mental disorder at population level. The psychometric properties of the SDQ are well established (Goodman, 2001). In this study, total difficulty scores above 16 were considered to be borderline-clinical (Goodman, 2001).
- Parenting Stress Index/Short Form (PSI/SF). Parent stress was measured using the PSI/SF, a 36-item self-report instrument with 3 dimensions labelled Difficult Child, Parent Distress, and Parent-Child Dysfunctional Interaction. The instruments 5-point scale ranges from strongly agree to strongly disagree. Higher scale scores indicate greater caregiver stress. PSI/SF scores are stable over time, are internally consistent, and are significantly related to generalised distress (Haskett, Ahern, Ward, & Allaire, 2006; Reitman, Currier, & Sickle, 2002). Scores that were in the 85th percentile or higher were considered clinically meaningful and scores in 81st percentile or higher were judged in the borderline-clinical range as recommended by the developers of the PSI-SF (Abidin, 1995).
- The Kansas Parental Satisfaction Scale (KPS) (James et al., 1985) is a brief 3-item instrument that measures parent satisfaction. Parents respond on a seven-point Likert scale ranging from “extremely dissatisfied” to “extremely satisfied”. The scale has good concurrent validity. Significant correlations have been found with the Kansas Marital Satisfaction Scale and the Rosenberg Self
A series of 2 x 2 mixed factorial ANOVAs were conducted on all of the measures of interest (*alpha = 0.05*). Each analysis compared results between the CG and the TG (between subjects). The measures were repeated for Time 1 (T1) and Time 2 (T2) (within subjects) for the CG and for Time 1 (T1), Time 2 (T2) and Time 3 (T3) for the TG. Table 2 displays the measures, associated clinical cut-off points (81st percentiles for PSI measures) and the means and standard deviations over time. It is noteworthy that as the stress measures were improved post intervention, the 81st percentile of measures decreased as expected.

Table 3 displays the *F* for homogeneity test across groups, *F* statistic for Time x Group interaction effects and their associated *p*-values, result for paired sample *t*-test (T1 to T2 and T2 to T3), associated confidence intervals and effect sizes. TG results are also presented for estimated difference between measurements pre-intervention (T1) and post-intervention (T2). As only T1 and T2 were considered, the assumption of sphericity test is not required.

**Strengths and Difficulties Questionnaire**

As can be seen from Table 3, there was a significant Time x Group interaction effect observed for the SDQ Total Difficulties (*F* 2, 25 = 4.87, *p* < .01) and the Hyperactivity subscales (*F* 2, 25 = 4.27, *p* < .01). The interaction effect was not significant for Conduct Problems (*F* 2, 25 = 3.06, *p* > .05), Emotional Problems (*F* 2, 25 = 0.51, *p* > .05), Peer Problems (*F* 2, 25 = 1.03, *p* > .05) and Pro-social Behaviour (*F* 2, 25 = 2.73, *p* > .05). Paired sample *t*-tests show a significant difference between measures on T1 and T2 for the TG Total Difficulties (t 60 = -2.89, *p* < .001) Hyperactivity (t 60 = -2.81, *p* < .001) and Conduct Problems (t 60 = -3.24, *p* < .001) and Pro Social subscales (t 60 = -2.11, *p* < .05). TG results were maintained at six-month follow-up (T3) on all measures as evidenced by t-test scores presented in Table 3. Figure 1(a) presents the variation in SDQ Hyperactivity scores and Figure 1(b) presents group differences in Total Difficulties pre and post intervention. The CG ceased between T2 and T3 as they were given the PPCP training.

**Parent Stress Index**

A significant interaction effect was observed on the PSI Total score (*F* 2, 25 = 12.35, *p* < .01). The interaction effect was also significant for Parent Distress (*F* 2, 25 = 9.77, *p* < .01), Parent Child Interaction Difficulties (*F* 2, 25 = -4.07, *p* < .01) and Difficult Child (*F* 2, 25 = 13.74, *p* < .001). Further analysis shown in Table 3 reveals that the Time effect was significant for the PSI Total score (t 60 = -0.89, *p* < .001),
**Table 2** Clinical cut-off scores, means and standard deviations (in parentheses) of treatment and no-treatment controls over time.

<table>
<thead>
<tr>
<th>Measure (Borderline/Clinical Cut-off)</th>
<th>Control n = 31</th>
<th>Treatment n = 44</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Time 1 n = 31</td>
<td>Time 2 n = 27</td>
</tr>
<tr>
<td>SDQ Total Difficulties (16)</td>
<td>(14.59, 3.82)</td>
<td>(14.52, 4.71)</td>
</tr>
<tr>
<td>Hyperactivity (6)</td>
<td>(4.33, 1.84)</td>
<td>(4.41, 2.21)</td>
</tr>
<tr>
<td>Conduct Problems (4)</td>
<td>(3.41, 1.58)</td>
<td>(3.22, 1.53)</td>
</tr>
<tr>
<td>Emotional Symptoms (6)</td>
<td>(2.81, 2.11)</td>
<td>(2.67, 2.39)</td>
</tr>
<tr>
<td>Peer Problems (4)</td>
<td>(4.04, 1.95)</td>
<td>(4.22, 2.10)</td>
</tr>
<tr>
<td>Pro-social Behaviour (5)</td>
<td>(7.37, 1.57)</td>
<td>(7.33, 1.88)</td>
</tr>
<tr>
<td>Kansas Parent Satisfaction (15)</td>
<td>(12.38, 2.52)</td>
<td>(13.42, 2.58)</td>
</tr>
<tr>
<td>Child-related Goal Attainment</td>
<td>(2.85, 2.03)</td>
<td>(3.62, 2.28)</td>
</tr>
<tr>
<td>Parent Goal Attainment</td>
<td>(3.27, 1.86)</td>
<td>(3.62, 2.28)</td>
</tr>
</tbody>
</table>

**Table 3** Summary of ANOVA and t-test results comparing treatment group to a no treatment control group over time.

<table>
<thead>
<tr>
<th>Parent measures</th>
<th>Homogeneity Test</th>
<th>Interaction Effect</th>
<th>Treatment n = 44</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F</td>
<td>F</td>
<td>(Time 1 to Time 2)</td>
</tr>
<tr>
<td>Estimated Difference &amp; 95%CI</td>
<td>t</td>
<td>Effect Size</td>
<td>t</td>
</tr>
</tbody>
</table>

**SDQ Total Difficulties**
- 1.67
- 4.87**
- -2.88 (-4.91 to -0.86)
- -2.89*** 0.32
- -0.839

**Hyperactivity**
- 1.86
- 4.27**
- -1.03 (-2.83 to -1.77)
- -2.81*** 0.31
- -1.494

**Conduct Problems**
- 0.13
- 3.06
- -0.97 (-1.58 to -0.36)
- -3.24*** 0.41
- -0.653

**Emotional Symptoms**
- 3.18
- 0.51
- -0.52 (-1.35 to 0.29)
- -1.31
- 0.645

**Peer Problems**
- 0.21
- 1.03
- -0.35 (-1.14 to 0.43)
- -0.91
- 0.431

**Pro-social Behaviour**
- 0.10
- 2.73
- 0.73 (0.25 to 1.45)
- 2.11* 0.26
- 0.113

**Parent Stress Index Total**
- 3.08
- 12.35**
- -51.41 (-61.99 to -40.83)
- -9.89** 1.13
- 0.400

**Parental Distress**
- 0.04
- 9.77**
- -8.33 (-11.50 to -5.16)
- -5.35*** 0.61
- 0.255

**Parent Child Difficulties**
- 2.54
- 4.07**
- -33.07 (-38.44 to -27.50)
- -12.29*** 1.58
- 1.718

**Difficult Child**
- 3.07
- 13.74***
- -8.82 (-12.41 to -5.23)
- -4.99*** 0.63
- 0.077

**Kansas Parent Satisfaction**
- 2.96
- 14.62**
- 4.82 (3.27 to 6.36)
- 6.35*** 0.95
- 0.411

**Child-related Goal Attainment**
- 2.51
- 53.13**
- 4.83 (3.96 to 5.71)
- 11.24*** 1.75
- 0.810

**Parent Goal Attainment**
- 3.71
- 61.26***
- 5.03 (4.18 to 5.87)
- 12.06*** 0.32
- 0.865

Note. SD = standard deviation; SDQ = Strengths and Difficulties Questionnaire.

*p < 0.05; **p < 0.01; ***p < 0.001.
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Parent Distress ($t_{60} = -5.35, p < .001$), Parent Child Interaction Difficulties ($t_{60} = -12.29, p < .001$) and Difficult Child ($t_{60} = -4.99, p < .001$), for the TG. TG improvements in scores were maintained at six-month follow-up as shown in Table 3. Figure 2(a) presents Treatment and Control group scores on the PSI Total and Figure 2(b) PSI Difficult Child at T1, T2, and T3. The CG ceased between T2 and T3 as they availed of the intervention.

The Kansas Parent Satisfaction Scale

The interaction effect was significant for the KPS Total score ($F_{2, 27} = 14.62, p < .001$). There was a significant Time effect for the treatment group ($t_{60} = 6.35, p < .001$) and treatment gains were maintained at six-month follow-up (see Table 3).

Goals

There was a significant Time x Group interaction effect observed for child related goals ($F_{2, 25} = 53.13, p < .001$) (see Table 3). The paired-samples t-test results displayed in Table 3 shows a significant Time effect from T1 to T2 ($t_{60} = 11.24, p < .001$) for the Treatment group. Figure 3(a) presents the variation in scores between Treatment and Control groups across time. There was a significant Time x Group interaction effect observed for Parent personal Goal ($F_{2, 25} = 61.26, p < .001$) as shown in Table 3. Paired-samples t-tests presented in Table 3 shows a significant Time effect for the TG from T1 to T2 ($t_{60} = 12.06, p < .001$). Figure 3(b) displays Goal attainment for pre and post intervention and at six-month follow-up. In summary, significant Time x Group interaction effects were observed for: SDQ Total difficulties and Hyperactivity; PSI Total, Parent Distress, Parent Child Interaction Difficulties and Difficult Child subscales; Kansas Parent Satisfaction; and both the Child-related and Parent Goal attainment scales. While the pattern of results between T1 and T2 were similar, significant differences were observed for the TG only. Treatment group results were maintained at six-month follow-up.

Discussion

The PPCP is designed to enhance the skills of parents of children aged 6 to 11. The aim of the current study was to evaluate the effectiveness of the PPCP when delivered in community settings. No exclusionary criteria were applied. At baseline there was no significant difference between participants in the Treatment and Control groups on measures indicating that randomisation procedures were effective. The first study hypothesis was that delivery of the PPCP by varied professionals within different community settings would significantly benefit TG participants compared to a no treatment CG. This hypothesis was supported. The second hypothesis was that TG benefits would be maintained at six-month follow-up. This hypothesis was also supported. Significant TG improvements were evident on measures of child behaviour (SDQ), parental stress (PSI-SF), Parent Satisfaction (KPS) and parent and
Figure 2  Parent Stress Index (a) Total Score (b) Difficult Child for Treatment and Control groups’ pre and post intervention and six-month follow-up.

Figure 3  (a) Child related Goal attainment (b) Parent personal Goal attainment for Treatment and Control groups’ pre and post intervention and six-month follow-up.
child related Goal attainment. Effect sizes for the significant post programme changes were moderate to large, indicating a practical application for the findings. These results suggest that the PPCP could be suitable as a preventative and supportive intervention for the parents of a majority of children delivered by a broad range of professionals in real world settings and to varied populations.

The SDQ was used to assess parent perception of child conduct. Compared to the CG, parents in the TG achieved significant improvements on the SDQ Total, Hyperactivity, Conduct Problems and Pro-social subscales post intervention. Importantly, mean scores post-treatment were in the (low-needed) non-clinical range. Treatment gains were maintained at six-month follow-up. These results replicate post-treatment gains achieved in a clinical setting (Coughlin et al., 2009) and with parents of children with disabilities in a community setting (Hand et al., in press). Not unexpectedly, baseline scores were in the SDQ ‘some need’ range, lower than in previous studies (Coughlin et al., 2009; Griffin et al., 2010; Hand et al., in press) suggesting Borderline/Pre-Clinical problem levels for this group. This outcome provides initial evidence for the preventative and treatment potential of PPCP as a community based programme capable of addressing child conduct problems before they escalate to clinical levels.

The PSI-SF was administered to assess parent stress levels. Significant decreases in all scores was observed post-treatment for the TG with results maintained at six-month follow-up. Results were consistent with findings of Coughlin et al. (2009) and Hand et al. (in press). Interestingly, a decrease in scores was observed for CG, however improvements were significant for the TG only. It is possible that these positive changes occurred within the CG prompted by identifying their own parenting goals. Prevention measures of Parent Satisfaction were low. This would suggest that parents who self-select to attend parent training have an insight into their own parenting needs. Post training, TG scores had significantly improved and were maintained at six-month follow-up, while CG scores decreased slightly. On measures of parent and child related goal attainment, parents in the TG showed significantly greater goal attainment. Gains were maintained at six-month follow-up.

These preliminary findings, while encouraging, must be considered in the context of some limitations. The conclusions rely solely on self report, as no observation data or teacher ratings were collected. The study is also limited by low participation rates of fathers (13%). In a previous study of the Parents Plus Programme, targeted at parents of older children, the attendance rate of fathers was 43 percent (Behan et al., 2001). In this study it is possible that daytime scheduling of training may have favoured mothers. Another limitation was the low numbers with data collected at the six month follow up. This was caused by practical limitations and lack of resources. Future studies would be strengthened by more complete data at follow-up. The question of whether parents of more troubled children or with more limited resources benefit to the same extent from programme intervention is important. It is possible that parents in more challenging situations may not have the time, resources or enthusiasm for participation. For some participants, these added challenges may undermine the potential of the programme. These preliminary, but positive results provide a compelling justification for a study replication.

The results of this study build on research by Coughlin et al. (2009) and Hand et al. (in press) providing initial indications for the utility of the PPCP as a preventative model of parent training, when delivered by varied professionals. The significant improvement in parent satisfaction and reductions in stress and child problem scores are important achievements over a relatively short intervention period. As the first community led trial this initiative provides evidence of the preventative potential within a new delivery framework. Quality of parenting is believed to shape the emotional environment of the family and play a critical role in children’s psychosocial development (Morris et al., 2007) yet availability of parent training is for the most part constrained to clinical settings. Within the clinical context delivery is limited and more costly. This is compounded by reports suggesting that many of the most needy families do not seek referral (Hutchings & Webster-Stratton, 2004; Kilroy et al., 2011). Reaching sufficient numbers of parents in need with widely available, empirically supported parenting interventions requires a community led approach. The current study indicates that such an approach could have a positive public health impact, preventing and interrupting problems before they become critical. Relieving parent and child stress is likely to lead to reduced demand for clinical services, interrupt injurious developmental trajectories, and in the long run reduce intervention costs. It is anticipated that future research will clarify whether those with clinical versus non clinical scorers benefit equally from this type of community based training.

References


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