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# Design and Implementation of The Irie Homes Toolbox

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6 **Keywords: violence prevention, parent training, intervention development, early childhood,**  
7 **behaviour change, low- and middle-income country**

8 The manuscript is 7,799 words long with 9 tables and 6 figures.

## 9 **Abstract**

10 This paper describes the development of the Irie Homes Toolbox, a violence prevention programme  
11 targeting parents of children aged two to six years. The intervention was designed to complement an  
12 existing, teacher-training, violence prevention programme, the Irie Classroom Toolbox, thus  
13 promoting an integrated approach across home and school settings. The Irie Homes Toolbox was  
14 developed through a four-stage process by integrating data from theory, formative research, and  
15 practice to ensure the intervention is acceptable, feasible, relevant, and effective in the context. The  
16 perspectives of Jamaican preschool teachers and parents of preschool children, who are the end users,  
17 were integrated into the design of the intervention throughout the development process. Stage one  
18 involved integrating theory and formative research to inform the initial intervention design. Stages  
19 two and three involved iterative cycles of design, implementation and evaluation of the intervention  
20 content, process of delivery, structure and materials. Stage four involved a further cycle of learning  
21 through a process evaluation conducted as part of a cluster-randomised controlled trial. Data from  
22 each of these four stages was used to inform the design and ongoing revisions of the toolbox with the  
23 aim of developing a low-cost, scalable and sustainable intervention for the Jamaican context. The  
24 resulting programme is theory-informed and uses empirically derived content and behaviour change  
25 principles operationalised for the context in which it will be delivered. The Irie Homes Toolbox is  
26 suitable for integration into the existing preschool provision in Jamaica, thus utilising an existing  
27 service and existing staff and increasing the likelihood for wide-scale dissemination.

## 28 **Introduction**

29 Globally, violence against children exists in almost all countries with the violence often being  
30 committed by caregivers (1). This violence is mainly due to the use of harsh discipline practices. The  
31 use of psychologically aggressive (e.g. name-calling, yelling) and physically violent (e.g. slapping,  
32 beating with an object) discipline practices are considered violence against children or child  
33 maltreatment (2). The use of physical violence on children is a direct breach of their human rights  
34 and an increasing global concern (3). Approximately 300 million children aged two to four  
35 worldwide are disciplined violently by their parents on a regular basis (1). It is estimated that 80% of  
36 children globally are spanked or hit at home (4). The use of physical punishment has been shown to  
37 be associated with increased child externalising behaviour, antisocial behaviour, internalising  
38 problems, lower cognitive ability, and lower self-esteem (5). These associations may also persist into

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39 adulthood resulting in increased violent and/or criminal behaviour, antisocial behaviour, mental  
40 health problems and perpetuation of violence against their own children or spouses (5-7).

41 Parenting interventions are a key strategy used to prevent violence against children (8). A meta-  
42 analysis of child maltreatment parenting programmes reported reductions to child maltreatment with  
43 an effect size of 0.3SD, and reported benefits to parents' positive parenting practices, attitude, and  
44 self-confidence (9). The majority of studies in the meta-analysis included children younger than five  
45 years and interventions were delivered individually (e.g. through home-visiting or in clinic-based  
46 sessions), through group parenting sessions or a combination of both. In addition to preventing  
47 violence against children, these programmes may also prevent child conduct problems, including the  
48 development of aggressive behaviour (8). This is achieved by educating parents about the importance  
49 of positive attention and training them in non-violent alternatives to physical discipline (10).

50 Jamaican parents regularly use verbal aggression and physical punishment to discipline their children  
51 (11). In a study on parenting practices in 24 developing countries, 84% of Jamaican caregivers  
52 reported using physical discipline on their children aged 5 and younger; this was the highest  
53 prevalence of all the countries (12). In 2016, Jamaica became one of the first pathfinder countries in  
54 the global partnership to end violence against children and both non-governmental organizations and  
55 the government have joined forces for this initiative (13). The pervasiveness of caregivers' use of  
56 violent discipline strategies combined with the push globally and nationally for strategies to end  
57 violence against children, show an urgent need for a parenting intervention targeting violence  
58 prevention that can be effectively disseminated at scale in the Jamaican setting. Previous qualitative  
59 work with parents of preschool children in Jamaica has shown that although parents report frequent  
60 use of corporal punishment with their young child, they believe it is undesirable and ineffective  
61 suggesting that they would be receptive to training in behaviour management (14).

62 Integrating such programmes into existing services would promote parent participation and program  
63 sustainability. The most common services accessed by parents of young children are the health and  
64 education sector. For example, a parenting programme for parents of two to six year old children,  
65 implemented in child health clinics in Iran decreased dysfunctional parenting practices and child  
66 physical and emotional abuse, (15) and a training programme for parents of three to seven year old  
67 children in Liberia, delivered in school settings, reduced the frequency of harsh punishment and  
68 increased positive parenting practices (16). In Jamaica, we have demonstrated in efficacy trials that  
69 integrating parenting interventions into the existing primary health service has the potential to  
70 improve child development (17, 18); however sustaining these interventions has proved difficult due  
71 to staff workload (19).

72 Jamaican preschools cater to children aged three to six years and over 98% of young Jamaican  
73 children are enrolled in preschool. Training Jamaican preschool teachers in appropriate discipline  
74 techniques has shown benefits to teachers' child behaviour management practices (20). We have  
75 developed a teacher-training, violence prevention programme, the Irie Classroom Toolbox, to prevent  
76 violence against children (21). The Irie Classroom Toolbox has been evaluated with preschool and  
77 grade one primary school teachers and has shown large reductions to teachers' use of violence  
78 against children (22,23).

79 Developing a complementary parent-training programme to be implemented in preschools is a logical  
80 next step and has the potential for near universal coverage. Integrating the Irie Homes Toolbox into  
81 the services offered to parents through community preschools maximizes on this training of  
82 preschool teachers as 1) teachers trained in the Irie Classroom Toolbox can deliver the intervention

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83 with the parents, and 2) it promotes an integrated approach across home and school settings. In  
84 addition, integrating training in violence prevention into early childhood educational services will  
85 promote a high quality caregiving environment for young children that is safe, secure, and nurturing,  
86 in addition to providing cognitive stimulation. Provision of integrated violence prevention and early  
87 childhood development interventions thus promote child development across multiple domains,  
88 address multiple risk factors, and help children develop to their full potential (24, 25). Early  
89 childhood is a critical period for children's development and optimal development provides the  
90 foundation for future physical and mental health (26). Integrated interventions thus have the potential  
91 to lead to population-level improvements in child health and well-being (27).

92 This paper describes the development of the Irie Homes Toolbox, a violence prevention parenting  
93 programme for parents of children aged two to six years. The main aims of the Irie Homes Toolbox  
94 are: 1) to prevent violence against children by parents/caregivers of young children, 2) to promote  
95 positive parenting practices including positive discipline, and 3) to prevent the early development of  
96 antisocial behaviour in young children. The Irie Homes Toolbox was developed as a complementary  
97 programme to the Irie Classroom Toolbox to promote an integrated approach to child behaviour  
98 management across home and school settings. It was developed to be integrated into the existing  
99 preschool network and to be suitable for implementation by preschool teachers. Preschool teachers  
100 have regular contact with parents and are ideally placed to engage parents in a parent-training  
101 programme being conducted at school. 'Irie' is a Jamaican word that describes feeling at peace and  
102 in harmony with oneself and with others.

### 103 **Methods**

104 The Irie Homes Toolbox was developed over fifteen months using the framework of the UK Medical  
105 Research Council Guidance on Developing and Evaluating Complex Interventions (28). The  
106 development process consisted of four stages (**Figure 1**). The first stage involved integrating theory,  
107 empirical evidence, and the perspectives of the end users to inform the initial design of the  
108 programme; the second stage involved repeated piloting of individual sessions to develop a first draft  
109 of the intervention; the third stage was a full piloting phase in which the entire intervention was  
110 piloted in five different preschools with groups of six parents, and the fourth stage involved  
111 conducting a quantitative and qualitative process evaluation of the intervention as part of a cluster  
112 randomised controlled trial. Within and between each stage, ongoing revisions were made to the  
113 intervention content, mode of delivery, structure and materials based parents' and preschool teachers'  
114 suggestions and on the observations and experiences documented throughout the process by the  
115 research team. These iterative cycles of design, implementation and evaluation were conducted to  
116 promote the acceptability, feasibility, relevance and effectiveness of the intervention with the target  
117 population. All activities in the four stages of the development process were conducted by the authors  
118 of the paper and a female research assistant with extensive experience working in Jamaican  
119 preschools. Ethical consent for the study was obtained from the University of the West Indies (ECP  
120 144, 17/18) and from the School of Psychology, Bangor University (ref: 2018-16364). Signed,  
121 informed consent was obtained from all parents and teachers participating in the study.

### 122 ***Stage One: Preliminary Intervention Design***

#### 123 Methods

124 In stage one, conducted in December 2017 and January 2018, we integrated evidence from theory,  
125 empirical research studies and the perspectives of Jamaican parents. The first step involved

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126 identifying the core components of evidence-based parenting programmes related to both the content  
127 and methods of implementation (29). The focus was on programmes targeting parents of children  
128 between two and eight years that aimed to improve positive and reduce negative parenting practices,  
129 reduce child maltreatment, and/or reduce child behaviour problems. We included programmes  
130 focussing on child maltreatment and on child externalising behaviour, as both types of programme  
131 include training parents in appropriate discipline techniques. Programmes reviewed included the  
132 Incredible Years Parenting Programme (30), Triple-P Positive Parenting Programme (31), Parent  
133 Management Training Oregon Model (PMTO) (32), Parent-Child Interaction Therapy (33), Parent  
134 Corps, (34) and ACT Raising Safe Kids (35) from high-income countries and Sinovuyo (36), Parents  
135 Make a Difference (15), and Projecto Paceria (37) from low and middle-income countries (LMIC).  
136 We also examined reviews and meta-analyses of the common core components of parenting  
137 interventions to identify the components that lead to more effective parenting interventions to prevent  
138 and reduce children’s externalising behaviour (38-40) and to prevent and treat parents’ use of  
139 violence against children (41-43). As the parenting intervention is planned as a complementary  
140 programme to the Irie Classroom Toolbox to promote an integrated approach to child behaviour  
141 management across home and school settings, we also identified components from the Irie Classroom  
142 Toolbox that would be applicable to parents. We created a working draft of possible content and  
143 behaviour change techniques that would be used in the intervention from these three sources of  
144 information, (that is from: 1) the content and method of implementation used in evidence-based  
145 parenting programmes, 2) qualitative and empirical reviews of common core components from  
146 interventions for externalising behaviour and to prevent violence against children, and 3) the core  
147 components from the Irie Classroom Toolbox). To operationalise these core components for the  
148 Jamaican cultural context and to inform the design of the intervention materials, we conducted a  
149 series of rapid interviews with parents of preschool children to identify common child misbehaviours,  
150 discipline strategies used, and examples of everyday activities of Jamaican parents and young  
151 children. Through these interviews, we identified the language used by parents to describe children’s  
152 positive and negative behaviours and words parents use to praise and to chastise children. This  
153 information was essential for designing the intervention so that it resonated with the intended  
154 participants and was appropriate for the cultural and economic context. We approached four inner-  
155 city preschools to assist us with this initial development. We chose preschools that were located close  
156 to the university, were reasonably representative of inner-city preschools in terms of size, staffing  
157 and facilities available, and with whom we had a good working relationship from previous studies.  
158 Parents of children attending the school were selected by convenience and a group of 10 parents in  
159 each school were interviewed. Interviews were conducted on the school compound and lasted  
160 approximately 15 minutes. A total of thirty-five mothers and five fathers participated in these  
161 interviews. The topic guide included: 1) questions about child behaviour (e.g. “What are some things  
162 that your child does when they are giving trouble?” “What are the main problems you have with your  
163 child?”), 2) questions about parent behaviour (e.g. “What are some things you say to your child when  
164 s/he misbehaves?” “Tell me some of the reasons you slap your child.” “What do you say to your  
165 child when s/he is being good?” “What instructions to you have to repeat constantly to your child?”),  
166 and 3) questions about child activities (e.g. “What game does your child play and what toys does s/he  
167 play with?” “What does your child do after school?”. Finally, we developed a theory of change to  
168 underpin the intervention development. The theory of change for the Irie Homes Toolbox is similar  
169 to that for the Irie Classroom Toolbox and incorporates the COM-B system for understanding  
170 behaviour which states that for a behaviour to occur and be sustained, three factors are required:  
171 capability, motivation and opportunity (44). Behaviour change techniques to promote these three  
172 factors are thus incorporated into the intervention.

## 173 Results

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174 The common core components of evidence-based parenting interventions and the components of the  
175 Irie Classroom Toolbox relevant to parents are shown in **Table 1**. The core components that have  
176 been shown to be most effective in programmes targeting child behaviour problems versus child  
177 maltreatment share some commonalities and there are also some differences. For programmes  
178 targeting child externalising behaviour, building a positive parent-child relationship through  
179 nurturing, positive and sensitive interactions, the use of praise and positive reinforcement, emotional  
180 communication, and learning appropriate discipline methods such as time-out and consequences have  
181 been shown to be important components (38,40). For programmes targeting child maltreatment,  
182 learning non-violent discipline approaches, daily child-led play, and parental self-management skills  
183 have been shown to be most effective (41,42). In terms of the process of delivering the content, the  
184 most effective programmes are delivered in a non-stigmatising way, focus on building parents' self-  
185 confidence and involve modelling, rehearsal and practice, supportive feedback, homework  
186 assignments, and problem-solving activities (42, 38, 43). These components were thus included in  
187 our initial intervention design. We also prioritised relevant content and process components from the  
188 Irie Classroom Toolbox as these components 1) have proven effectiveness in the Jamaican setting,  
189 and 2) are used by the preschool teachers who will ultimately deliver the intervention to parents. The  
190 content used most and most liked by teachers included paying attention to positive behaviour,  
191 explicitly teaching the expected behaviour, giving clear instructions and interactive reading (21). The  
192 training methods most valued by teachers included rehearsal and practice, positive and supportive  
193 feedback, ensuring teachers recognised the benefits of the intervention to the children and to  
194 themselves, group support, provision of necessary materials to implement the intervention, and  
195 making sessions fun (21). **Table 2** outlines how the parent interview responses were used in  
196 intervention development to ensure the programme was acceptable, relevant, and feasible for the  
197 Jamaican cultural context. The responses were used in the design of role plays, practice activities,  
198 visual aids, and problem-solving activities. The theory of change is shown in **Figure 2**. The core  
199 intervention content is delivered using evidence-based behaviour change techniques leading to  
200 increases in parents' skills, motivation and opportunity to use the strategies with their child. This  
201 leads to improved parental outcomes including increased positive parenting, reduced negative  
202 parenting, and reduced violence against children. The improvements in parental outcomes in turn  
203 lead to improved child behaviour and school readiness skills. Using the information from the review  
204 of core components, parental interviews and theory of change, we developed an outline of the content  
205 and process delivery of the intervention for testing in stage two.

### 206 *Stage Two: Designing the First Draft of the Intervention*

#### 207 Methods

208 The aim of stage two was to undertake preliminary piloting of the intervention content and methods  
209 of implementation to produce a first draft of the intervention. The activities for stage 2 were  
210 conducted in February and March 2018. We continued to work within the same four community  
211 preschools that participated in stage one and convenience samples of five to 12 parents were invited  
212 to participate in sessions. The majority of participants were mothers although four fathers and one  
213 grandfather were included in the sample. Sessions were conducted at the beginning of the school day.  
214 Each individual session was piloted twice with different groups of parents, with ongoing revisions  
215 based on lessons learnt during each session. During these sessions one member of the team delivered  
216 the content while another team member made notes on: 1) parents' engagement, level of  
217 understanding, ability to use the strategies, and what content resonated within the group, 2) ideas for  
218 materials and visual aids that would help to promote parents' understanding and engagement, 3)  
219 session logistics including session structure, duration and optimal group size. Throughout the process

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220 of piloting the sessions, we used the following guidelines to inform our decision making and note  
221 taking:

- 222 • Be reflective: constantly think of ways to improve the acceptability, feasibility, relevance and  
223 effectiveness of the program.
- 224 • Evaluate whether parents understand and are able to use the concepts introduced and plan  
225 how their knowledge and skills can be improved.
- 226 • If something does not work, or does not work well, problem solve in real-time. Try a different  
227 approach and document what happens.
- 228 • Pay close attention to the group vibe; if it's flat then something is wrong. Identify ways to  
229 maximise participation, fun and interest.
- 230 • Pay attention to individuals in the group, ensure all are participating.
- 231 • Make note of scenarios that resonate with the group.
- 232 • Note parents' strengths and needs throughout the session.
- 233 • Note examples that parents give and use their comments and ideas to revise the content and  
234 delivery of the program.

235 After each session, the notes were discussed among the research team and decisions made to increase  
236 the acceptability, feasibility, relevance and effectiveness of the intervention. These decisions were  
237 incorporated into the relevant session prior to piloting the session with a different group of parents.

### 238 Results

239 **Tables 3 and 4** show how we operationalised our key principles of acceptability, feasibility,  
240 relevance and effectiveness based on our observations and notes as we piloted the intervention. To  
241 promote acceptability, we aimed to: 1) ensure the intervention was fun and engaging, 2) acknowledge  
242 parents' current strengths, and 3) help parents see the benefits of the programme. The key factors  
243 influencing feasibility were considered to be: 1) session logistics, 2) the equipment required to  
244 conduct the intervention, 3) whether parents could easily integrate the content into their daily lives,  
245 and 4) how to individualise the content to ensure participants' individual needs were met. To promote  
246 the relevance of the intervention, we ensured that the material resonated with the parents and met  
247 their needs. In addition, as this is a preschool-based programme, we included content on how parents  
248 can support their child's homework. The acceptability, feasibility and relevance of the intervention  
249 are all critical to its effectiveness. Additional factors considered under effectiveness were: 1) the  
250 optimal group size, 2) parent understanding and skill using the strategies, 3) parent motivation, 4)  
251 parents' reports on their use of the strategies at home, 5) parents' ability to generalise their use of the  
252 strategies, 6) ensuring the sessions are supportive, collaborative and non-critical, and 7) designing the  
253 session structure (**Table 4**).

254 A core component of the intervention is to encourage parents to engage in daily child-led play or Irie  
255 Time. To ensure parents had the resources available to do this, we decided to include a toy or book in  
256 the materials given to parents after each session. We choose toys that facilitated free-play such as  
257 blocks, cars, animals and a pretend play set, rather than structured toys such as puzzles and matching  
258 games. We also included three wordless picture books. Two of these books were adapted from the  
259 Reach Up and Learn parenting intervention, additional details and extra pictures were added to make  
260 them more suitable for the older child age range targeted in this intervention (45). One book was  
261 designed specifically to reinforce content introduced through the programme. This book encouraged  
262 parents to label children's emotions and included pictures of children expressing different emotions  
263 followed by a scenario in which a child may feel that way (for example, a sad face followed by a

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264 picture of a child looking sad because they dropped their ice-cream). During the session, we  
265 demonstrated the child-led play or book activity, encouraged the parents to practice, and then parents  
266 played or read with their child during the session with support from the facilitators. In this way, we  
267 capitalised on the fact that the sessions were being conducted at school as children could join the  
268 sessions for the play activity only. During the rest of the session, the children were in their classroom  
269 and no child-care was required.

270 By the end of stage two, we had developed an initial draft of the content and process of delivery of  
271 the intervention and designed the intervention materials (for example, picture cards, charts, take-  
272 home cards for parents, homework assignment record forms for parents, picture books) to be tested in  
273 stage three.

### 274 *Stage 3: Design of the Final Draft of the Intervention*

#### 275 Methods

276 The first draft of the Irie Homes Toolbox produced through stage two activities consisted of eight 90-  
277 minute sessions. The full programme was then piloted in five new community preschools from April-  
278 June 2018. The ultimate goal is for the Irie Homes Toolbox to be delivered by preschool teachers  
279 who have been trained in the Irie Classroom Toolbox; hence it was important to include the  
280 perspectives of preschool teachers in the development of this parenting intervention. We invited  
281 preschools whose teachers had participated in the Irie Classroom Toolbox training to assist us (46).  
282 Harsh punishment is common in Jamaica preschools and the rationale for involving teachers who  
283 were already familiar with the Irie Classroom Toolbox was that these teachers had developed a good  
284 understanding of child behaviour management strategies and had experienced the training methods  
285 used to help them to change their discipline practices. Six parent-child dyads were recruited from  
286 each school, giving a total sample size of 30 parents. The parents were selected based on interest and  
287 availability. When a parent dropped out of the programme before the sessions began or after  
288 attending one session, an additional parent was recruited to participate in the training sessions. The  
289 participating parents' children were aged two to six years with a mean age of 3.5 years; 40% of the  
290 children were boys. There was one father and the remaining participants were mothers. The  
291 preschool principal allocated one teacher to assist the research team and the sessions were delivered  
292 in collaboration with a teacher from each school. This ensured that we could include the perspectives  
293 of preschool teachers in the intervention design and we could identify challenges associated with  
294 teacher participation. Two team members attended each session, one acting as a facilitator and one as  
295 a notetaker. After each session, the facilitators and the preschool teacher reflected on 1) parents' level  
296 of understanding of the content presented and acquisition of skills, 2) parents' degree of engagement  
297 and participation during the session, 3) parents' ability to generalise and apply the skills across  
298 multiple activities and contexts, and 4) examples of child and parent behaviours that resonated with  
299 the group. These notes were then used to refine the content, delivery, structure and materials of the  
300 intervention with the aim of increasing its acceptability, feasibility, relevance and effectiveness.  
301 These changes were made on an ongoing basis so the refinements could be implemented and piloted  
302 in an iterative and cyclical process of design, implementation and evaluation. In stage three, we also  
303 piloted parent recruitment and engagement strategies and made notes on teachers' engagement in the  
304 sessions as co-facilitators.

#### 305 Results



306 **Table 5** outlines the refinements made to the content, delivery, materials and structure of the  
307 intervention based on the data collected from piloting during stage three. Refinements included: 1)  
308 adding content related to parents' personal needs, 2) adapting the training methods for content that  
309 parents found more difficult, 3) making changes to the session structure, 4) designing additional  
310 materials, 5) building more redundancy into the parenting sessions and 6) providing additional  
311 guidelines for the co-facilitator. The data was used to develop the final draft of the Irie Homes  
312 Toolbox to be tested in a cluster randomised controlled trial. A summary of how the information  
313 from stages one to three was used to ensure the content and methods of implementation used in the  
314 Irie Homes Toolbox are acceptable, feasible, relevant and effective in the context is shown in **Figure**  
315 **3**.

316 The most effective recruitment strategies involved working through the teachers and/or school  
317 principal rather than the research team recruiting parents directly. Three of the parents recruited  
318 directly by the research team decided they no longer wanted to participate before the programme  
319 commenced and four parents attended only the first session. These parents were replaced by parents  
320 recruited through their child's teacher and/or the school principal. The average attendance of the  
321 participating parents was 81% (range 50%-100%). We also found that the collaborating teachers  
322 would rarely attend the entire session and would leave the sessions frequently to attend to other  
323 duties. To promote teacher engagement, we therefore included a structured and scripted co-facilitator  
324 role for the teacher in the revised intervention as shown in **Table 5**.

325

### 326 *Stage 4: Implement Intervention and Conduct Ongoing Process Evaluation*

#### 327 Methods

328 The intervention was tested in a cluster-randomised trial in eighteen community preschools that had  
329 not participated in stages one to three. The parenting sessions were implemented during the period  
330 September 2018 to April 2019. Preschools were selected to participate in the trial based on the  
331 following criteria: 1) had participated in the Irie Classroom Toolbox training and had two or more  
332 Irie trained teachers still working at the school, 2) were interested in participating in the program, 3)  
333 had parents who consistently dropped children and/or picked up children from school rather than a  
334 driver, 4) had no other structured parenting program currently operating, and 5) the principal and all  
335 teachers in the school consented to participate in the study. Nine preschools were randomised to  
336 participate in the parenting intervention and an ongoing process evaluation was conducted. Parents  
337 were recruited at the school by the research team with the help of the teachers and principal. A  
338 minimum of six parents were recruited from each school in the Autumn term and an additional six  
339 recruited in the Spring term resulting in a minimum total of 12 parents per school. The inclusion  
340 criteria for parents were: 1) interested in participating in the program, 2) able to stay back for 90  
341 minutes either in the morning after dropping off their child or in the afternoon when they came for  
342 pick-up one day a week, and 3) parent gave consent for him/herself and his/her child to participate in  
343 the study. The quantitative results from the trial will be reported separately. In this paper we are  
344 focusing on the process of developing the intervention. One hundred and fifteen parent-child dyads  
345 participated in the intervention. The children were aged two to six years old with a mean age of four  
346 years; 52.2 % of the sample were boys. Caregivers had mean age of 31 years, 104 (90.4%) were  
347 mothers, 2 (1.7%) were fathers, and 9 (7.8%) were other relatives. Less than half the parents  
348 completed high school (46%) and 43% were in paid employment. The ultimate aim is for the  
349 preschool teachers to implement the intervention. However, in this small-scale efficacy trial we

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350 wanted to assess the effectiveness of the programme when delivered consistently and with high  
351 fidelity; when the intervention is delivered by teachers the quality of implementation may be more  
352 variable. Hence, a member of the research team delivered the intervention. Each school principal  
353 allocated one preschool teacher to assist the research team by co-facilitating the parenting session.  
354 This ensured that we were able to continue integrating the perspectives of the preschool teachers into  
355 the programme design. Parenting sessions were held on the school compound (in the school yard or  
356 any available room), once a week for eight weeks and lasted 90 minutes.

357 The ongoing process evaluation included a quantitative and qualitative component. The quantitative  
358 component included recording parent and teacher attendance. For the qualitative component, after  
359 each session the facilitators (including the preschool teacher) discussed the session together and then  
360 the main facilitator completed a record form that documented enablers and barriers related to: 1) the  
361 content of the session (for example, what resonated with parents and what was more difficult), 2) the  
362 process of delivery (for example, techniques parents enjoyed the most and least), 3) the context in  
363 which the session was delivered (for example, logistics and environment), 4) the involvement of the  
364 children, 5) teachers' co-facilitation of the sessions, and 6) facilitators' skills in delivering the  
365 session. Notes were also made on individual parents' engagement, understanding, strengths and  
366 needs. Facilitators noted their perceptions of which strategies were most acceptable, feasible, relevant  
367 and effective and suggested solutions to any problems encountered in implementing the intervention.  
368 The information from the facilitator record forms was used to further refine the Irie Homes Toolbox.

369 In addition to the ongoing process evaluation, in-depth, individual, semi-structured interviews were  
370 conducted with a subsample of participating parents (n=28) and with one teacher from each  
371 preschool who co-facilitated the sessions (n=9). A section of the interview focussed on participants'  
372 perspectives of the main benefits of the programme and is reported here. One or two parents from  
373 each school who had attended a minimum of four sessions were randomly selected for interview.  
374 Eighty-three (79%) parents had attended four or more sessions and fourteen parents were randomly  
375 selected from participants in round one (Autumn term) and a further fourteen parents were randomly  
376 selected from participants in round two (Spring term). In-depth interviews with parents were  
377 conducted over two phases, within one month after the end of the sessions. Teacher interviews were  
378 conducted at the end of round two. Interviews were conducted in a quiet place in each preschool by a  
379 female research assistant who had not been involved in implementing the sessions. All interviews  
380 were recorded and transcribed. The analysis was conducted using the framework approach which is  
381 particularly appropriate for applied research with specific objectives (47). Codes were developed by  
382 HBH and a trained research assistant applied the codes to the data and developed the thematic charts.  
383 The coding was checked by TF and any discrepancies were discussed and resolved by TF and HBH.

### 384 Results

385 Parental attendance averaged 71.5% in round one (Autumn term) and 67.1% in round two (Spring  
386 term). 61.8% parents attended six or more sessions with 28.7% all eight sessions. We documented  
387 the reasons for parent non-attendance and 79% of the absences were rated as legitimate. Legitimate  
388 absences were absences that were deemed unavoidable such as: clinic/doctor visit, called in to work  
389 unexpectedly, child being sick, unchangeable appointments, and meeting at older children's school.  
390 Teachers co-facilitated a mean of 6.1 (SD1.6) sessions in round one (the Autumn term) and 2.8 (SD  
391 2.9) sessions in round two (the Spring term). In the Spring term, teachers had many competing  
392 activities and responsibilities and attendance was more challenging. In addition, teachers were  
393 confident that the facilitator would continue to conduct the sessions if they were absent and this also  
394 led to reduced attendance, especially in the face of competing activities.

395 Facilitators made notes of multiple instances that supported the fact that the intervention developed  
396 was acceptable, feasible, relevant and effective to the participants. In terms of acceptability it was  
397 noted that parents would consistently laugh and have fun with the games, role-plays, and visual aids  
398 presented. Parents were eager and willing to participate in the different activities during the sessions  
399 and they would incorporate their own personality and flair to the activities further confirming their  
400 acceptability. The feasibility of the strategies was shown through the parents' reports on how they  
401 used the strategies at home in different situations. The relevance of the intervention was illustrated  
402 through the discussions in which parents shared instances of issues they were experiencing with their  
403 child and would provide examples of how the strategies helped them at home. Throughout the  
404 sessions, facilitators documented evidence of effectiveness including parents being able to use  
405 strategies with little to no prompting and becoming more confident and skilled in using the strategies  
406 as the weeks progressed.

407 **Tables 6 and 7** present the evidence from the qualitative interviews on parents' and teachers'  
408 perspectives of the benefits of the intervention. Both parents and teachers reported that parents had  
409 better emotional self-regulation skills, used less violence against their child(ren) and that parent-child  
410 relationships improved. Parents also reported being more confident and proud of their parenting  
411 skills, while teachers reported that parents used more praise with their child and showed more interest  
412 in school activities. Teachers reported similar benefits to themselves from co-facilitating the sessions,  
413 especially in terms of better emotional self-regulation, less violence against children (both in the  
414 classroom and with their own children), and using the other strategies introduced through the  
415 programme (e.g. praise, modelling, withdrawing attention, and redirecting children's attention) more  
416 frequently than previously at school and at home. Parents and teachers also reported similar benefits  
417 to children including children being more independent and displaying fewer behaviour difficulties  
418 (for example, less aggression and fewer tantrums). Parents also reported increased child compliance  
419 and an increase in their child's positive behaviour and emotions. Teachers perceived children of  
420 participating parents to be more confident in school. Teachers also reported benefits to their  
421 relationships with parents and expressed more empathy with and understanding of parents and the  
422 difficulties they faced.

423 **Table 8** shows the barriers faced in implementing the sessions with the changes made to address  
424 these barriers. This data was used to further refine the Irie Homes Toolbox to produce the final  
425 version of the programme.

### 426 *Description of The Irie Homes Toolbox*

427 The intervention developed through the four stages of this study is a violence prevention programme  
428 for parents of children aged two to six years called the Irie Homes Toolbox. The main goals of the  
429 program are to prevent and/or reduce parents' use of violence against children, increase positive  
430 parent-child interaction, and prevent and/or reduce child externalising behaviour problems. The Irie  
431 Homes Toolbox is a group-based parenting programme consisting of eight sessions, each lasting 90  
432 minutes, delivered once a week for eight weeks. Each of these eight sessions follows a set structure  
433 that includes 1) a game or song, 2) feedback from the previous week including a discussion of the  
434 home assignment, 3) introduction of a new topic consisting of discussions, role plays,  
435 demonstrations, rehearsal and practice, 4) introduction of a child-led play or picture book reading  
436 activity with demonstration, rehearsal and practice, 5) practicing the child-led play or book activity  
437 with their child with supportive feedback, and 6) review, goal setting, and allocating homework  
438 assignment. The toolbox consists of content divided into five modules 1) promoting positive  
439 behaviour, 2) preventing misbehaviour, 3) understanding emotions, 4) managing misbehaviour, and

## Design and Implementation of The Irie Homes Toolbox

440 5) supporting homework (**Table 9**). In each session, parents are encouraged to spend daily Irie Time  
441 with their child which involves spending quality time with their child and following their child's lead  
442 while playing with toys and/or looking at picture books (**Table 9**). The content covered through the  
443 eight sessions of the program is represented in the Irie Tower (**Figure 4**). The Irie Tower has the  
444 blocks representing the positive parenting strategies at the base of the tower as these form the  
445 foundation of the programme. As the sessions progress, parents are encouraged to use the blocks near  
446 the bottom of the tower every day and to only use the blocks at the top when absolutely necessary.  
447 Materials used in the Irie Homes Toolbox include materials for facilitators and materials for parents  
448 (see **Figure 5** for examples of these materials). Materials for facilitators include: 1) a fully scripted  
449 training manual including the training scripts for the eight sessions, 2) visual aids (including pictures  
450 of parents and children engaged in everyday activities and routines, pictures of parents using the  
451 strategies introduced in the programme, and pictures of children engaged in common misbehaviours,  
452 3) hand-held charts with key points from the session and 4) the Irie Tower. Materials for parents  
453 include: 1) a take-home card for each session summarising the content introduced, 2) a homework  
454 assignment record for each session, 3) selected toys and picture books for parents to use during Irie  
455 Time and 4) an Irie Parent Oath that parents sign on completion of the programme (**Figure 6**).

### 456 Discussion

457 The development of the Irie Homes Toolbox was guided by theory, evidence, and practice. Through  
458 a series of four stages, the intervention content, materials, structure, and process of delivery was  
459 tested through an iterative and cyclical process of design, implementation, and evaluation with the  
460 aim of producing a parenting intervention that was acceptable, feasible, relevant, and effective in the  
461 context. The resulting intervention: 1) is theory-informed and incorporates evidence-based content  
462 and evidence-based behaviour change principles, 2) was developed with participation of Jamaican  
463 parents and teachers who are the end users, and 3) was designed to be low-cost and integrated into  
464 the existing preschool network thus promoting wider dissemination and sustainability. Evidence from  
465 stage four showed that parent attendance and retention in the intervention was good indicating that  
466 the intervention was acceptable to parents. Parents and teachers reported benefits to parenting and  
467 child behaviours that were targeted through the intervention. Specifically, this included: 1) parents  
468 using less violence against children and spending more time building a positive relationship with  
469 their child, and 2) children displaying more positive behaviours and fewer behaviour difficulties at  
470 home and at school. These perceived benefits indicate that parents understood and were willing and  
471 able to use the strategies taught through the programme, providing evidence for feasibility, relevance,  
472 and the perceived effectiveness of the intervention. Parents reported greater confidence in their  
473 parenting skills which is likely due to the positive, supportive, and non-critical nature of the  
474 programme in combination with the changes that they perceived in their own and their children's  
475 behaviour. The advantages of integrating the intervention into the preschool network were evident as  
476 teachers reported benefits to their relationship with the parents and to parents' interest and  
477 engagement in school activities. There was also evidence that teachers' involvement in delivering the  
478 Irie Homes Toolbox reinforced and enhanced their previous training in the Irie Classroom Toolbox as  
479 they reported increased use of appropriate child behaviour management strategies in the classroom,  
480 in addition to with their own child(ren). The fact that teachers reported benefits to their own personal  
481 and professional life is promising as interventions are most likely to be sustained when there are clear  
482 benefits to the persons delivering an intervention, in addition to the intended beneficiaries (48). In  
483 previous qualitative research with Jamaican preschool teachers, we found no evidence of teachers  
484 showing empathy with parents and it was encouraging that teachers also reported an increased  
485 understanding of parents and the difficulties they faced (14). Empirical evidence of effectiveness will  
486 be reported separately with the results from the impact evaluation.

## Design and Implementation of The Irie Homes Toolbox

487 There are three broad categories in the literature for the development of behaviour change  
488 interventions that involve: 1) transporting an existing evidence-based program for use in a new  
489 cultural and/or economic context (for example, 49), 2) developing an intervention specific for the  
490 context (for example, 21, 36), and/or 3) learning while growing which involves continually  
491 improving an existing intervention (for example, 50). For the development of the Irie Homes  
492 Toolbox, we developed a context-specific intervention while also learning while growing through  
493 iterative cycles of design, implementation and evaluation with the results being used to continually  
494 improve the intervention. In developing an intervention specifically for the context, we transported  
495 and adapted evidence-based principles, rather than transporting an evidence-based programme. This  
496 approach has several advantages. Firstly, the resultant intervention will be specific to the needs and  
497 context of the target group (51) and may lead to a more efficient intervention. For example, in a  
498 previous study of training Jamaican preschool teachers in child behaviour management, we found  
499 that making substantial adaptations and additions to an evidence-based programme (in this case the  
500 Incredible Years Teacher Training Program) led to a more efficient intervention, requiring less  
501 support and supervision for participants, than when using a minimally adapted version (20).  
502 Secondly, there is a growing call for programmes to be made freely available globally (52) and this is  
503 especially important in low and middle-income countries where the upfront and ongoing costs  
504 associated with many packaged programmes are prohibitively high. Thirdly, there may also be  
505 challenges related to workforce capacity due to the need for highly skilled professionals to deliver  
506 some of these existing programs (53). The Irie Homes Toolbox was designed to be integrated into the  
507 existing preschool network and to be delivered by preschool teachers, many of whom are  
508 paraprofessionals. Fourthly, an intervention that has been developed in the context with participation  
509 from local stakeholders is likely to be more acceptable to participants, practitioners and policy-  
510 makers. These factors suggest that transporting evidence-based principles and operationalising those  
511 principles for the setting may lead to an intervention that is more scalable and sustainable for that  
512 particular context (21).

513 The Irie Homes Toolbox incorporates the use of evidence-based behaviour principles with a  
514 particular emphasis on behaviour change principles that have been shown to be most valued by  
515 Jamaican preschool teachers in a complementary teacher-training programme. These behaviour  
516 change principles include rehearsal and practice, positive feedback, group support, provision of  
517 materials and ensuring sessions are fun and interactive (21). These methods are used extensively in  
518 the implementation of the Irie Homes Toolbox. The use of complementary content and methods of  
519 implementation across both the teacher and parent-training programmes has several advantages  
520 including 1) promoting consistent use of strategies with children across home and school settings,  
521 and 2) making it easier for teachers to understand, adopt and implement the programme with parents  
522 as it mirrors training that they have received. In addition, these interactive and practical training  
523 methodologies have been reported to be a key characteristic of effective early childhood parenting  
524 programmes in LMIC in previous studies (49, 54-56).

525 The development and/or adaptation of interventions for use in LMICs often entail formative research  
526 (14, 57-60). Lachman et al. (36) developed a parenting program to address child maltreatment in  
527 South Africa by combining formative research with a theory driven approach that included  
528 identifying empirically-derived core components from the literature. To develop the Irie Homes  
529 Toolbox, we integrated data from three sources: 1) theory: including behaviour change theory, the  
530 common core components of parenting programmes and the core components used in the  
531 complementary teacher-training programme, The Irie Classroom Toolbox, 2) formative research:  
532 seeking the perspectives of parents and teachers of preschool children, and 3) practice: repeatedly  
533 testing and revising the intervention under development with representatives from the beneficiary

## Design and Implementation of The Irie Homes Toolbox

534 group. The intense piloting undertaken in this study as part of the intervention design provides the  
535 opportunity to pre-test every aspect of the intervention (content, process of delivery, structure,  
536 materials, recruitment and engagement strategies) prior to wider-scale implementation to maximise  
537 the likelihood that it will be acceptable, feasible, relevant and effective in the context. Enablers and  
538 barriers to the intervention's effectiveness were documented on an ongoing basis to ensure the  
539 intervention can be implemented in the real-world setting. In addition, the intervention was refined  
540 iteratively and collaboratively with the end users; incorporating the perspectives of the end users  
541 from the initial stages of design onwards increases the acceptability, feasibility, and relevance of the  
542 resultant intervention (61). During these learning cycles, we were able to identify problems,  
543 implement and evaluate possible solutions, and then implement the learning cycle again with the  
544 revised materials. These learning cycles continued until piloting of later drafts of the intervention  
545 resulted in little to no changes (29).

546 Following this development process, we now have an intervention that can be tested in a larger scale  
547 effectiveness trial. In the next phase of implementation, the programme will be implemented by  
548 preschool teachers and supervised by government supervisors from the Early Childhood  
549 Commission. There will be a continued need for ongoing learning cycles to identify the strengths and  
550 needs of preschool teachers and government supervisors to implement the programme and to identify  
551 the optimal levels of training and support to ensure the intervention maintains its effectiveness at  
552 scale. From a public health standpoint, scaling up effective programmes is critical to achieving  
553 population-level benefits in terms of reduced violence against children and reduced child  
554 externalising behaviour problems (62). However, few parenting interventions have been implemented  
555 successfully at scale, especially in LMIC, and paying attention to the scalability and effectiveness of  
556 an intervention from the design stage onwards is essential to wide-scale dissemination of effective  
557 programmes. There were several decisions made in the development of the Irie Homes Toolbox to  
558 promote future scaling. Firstly, the Irie Homes Toolbox was designed as a complementary  
559 programme to the Irie Classroom Toolbox to promote an integrated approach to child behaviour  
560 management across home and school settings. Preschool teachers who have been trained in the Irie  
561 Classroom Toolbox, and who are utilising the strategies taught on a daily basis with children in their  
562 class, will deliver the Irie Homes Toolbox to groups of parents within their school. The Irie  
563 Classroom Toolbox is currently being disseminated nationally in Jamaica by the Early Childhood  
564 Commission, thus providing a strong foundation for the implementation of this intervention.  
565 Secondly, the Irie Homes Toolbox was designed to be relatively low cost, requiring few materials or  
566 equipment. We choose not to rely on technology (e.g. video vignettes, audiotapes, presentations  
567 requiring a computer or projector) and designed the sessions so that minimal resources were required.  
568 For example, all visual aids are hand-held so no flip-chart stand is required, and we used large pieces  
569 of cardboard placed on parents' laps to conduct child play activities rather than use a table. All  
570 materials required to implement the intervention are stored in a large, portable, plastic tub. Hence the  
571 sessions can be delivered across various locations within the school compound. Thirdly, throughout  
572 the development of the Irie Homes Toolbox, we continually revised and refined the intervention  
573 content, process of delivery, structure, and materials to promote its acceptability, feasibility,  
574 relevance, and effectiveness in the Jamaican early childhood education context. Although the  
575 intervention was developed specifically for the Jamaican context, the content, process of delivery and  
576 materials of the program could be adapted to other LMIC. The Irie Homes Toolbox will be made  
577 available through a Creative Commons License to the global community.

578 The methods used in the development of the Irie Homes Toolbox are relevant for use in developing  
579 or adapting other educational and public health programmes. We recommend an approach that  
580 integrates formative research, theory, empirically derived content and behaviour change principles,

581 with extensive piloting in the context. Throughout this process, ongoing attention should be given to  
582 ensuring the content, process of delivery, and materials used in the intervention meet the four key  
583 principles of acceptability, feasibility, relevance, and effectiveness. **Figure 3** provides an overview of  
584 the key considerations involved in meeting these principles. Furthermore, it is important to engage  
585 the end users from the outset and to maintain their engagement throughout the development process.  
586 In addition, early consideration needs to be given to how, where, and by whom the intervention will  
587 be delivered as that will influence the design of the intervention. For an intervention to be suitable for  
588 use at scale, it is likely that it will need to be designed for use by an existing service, existing staff,  
589 and using low-cost materials. These factors have a strong effect on all four of the key principles of  
590 acceptability, relevance, feasibility, and effectiveness. Conducting a rigorous piloting and feasibility  
591 study of a new or adapted intervention prior to implementing an efficacy or effectiveness trial will  
592 ensure that the intervention fits the context, will assist in identifying the enablers and barriers to  
593 implementation thus maximising the likelihood of success of the trial and the subsequent uptake of  
594 the intervention if is proven effective.

### 595 **Author Contributions**

596 Both H.B.H. and T.F. contributed to the conceptualisation of the study, funding acquisition, project  
597 administration, investigation, data curation, data analysis, writing the original draft, and reviewing  
598 and editing the manuscript.

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### 602 **Conflict of Interest**

603 The authors have no conflict of interest to declare. The funders had no role in the design of the study;  
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## Design and Implementation of The Irie Homes Toolbox

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859 **Table 1. Core Content and Behaviour Change Techniques Used In Parenting Interventions to**  
 860 **Prevent and/or Treat Child Disruptive Behaviour and Child Maltreatment and in the Irie**  
 861 **Classroom Toolbox**

<b>Common Content in Maltreatment and Child Disruptive Behaviour Programs</b>	<b>Content of the Irie Classroom Toolbox Appropriate for Parents</b>
<ul style="list-style-type: none"> <li>• Knowledge of child development</li> <li>• Parent-child relationship building</li> <li>• Child-led play</li> <li>• Praise</li> <li>• Rewards</li> <li>• Promoting children’s social skills</li> <li>• Giving commands</li> <li>• Setting rules</li> <li>• Ignoring negative behaviour</li> <li>• Timeout</li> <li>• Consequences</li> <li>• Anger management</li> <li>• Emotional communication (understanding, identifying and labelling emotions)</li> <li>• Parent-self management</li> <li>• Consistent responding</li> </ul>	<ul style="list-style-type: none"> <li>• Praise</li> <li>• Rewards</li> <li>• Choices</li> <li>• Responsibilities</li> <li>• Coaching/narrating</li> <li>• Interactive reading</li> <li>• Clear Instructions</li> <li>• Teaching required skills</li> <li>• Emotion regulation</li> <li>• Anger management</li> <li>• Redirect</li> <li>• Withdraw attention</li> <li>• Consequences</li> <li>• Discipline hierarchy</li> </ul>
<b>Common Delivery Components in Maltreatment and Child Disruptive Behaviour Programs</b>	<b>Behaviour Change Techniques used to Deliver the Irie Classroom Toolbox</b>
<ul style="list-style-type: none"> <li>• Psychoeducation</li> <li>• Role-plays, practice and rehearsal</li> <li>• Demonstration and modelling</li> <li>• Positive and supportive feedback</li> <li>• Problem solving</li> <li>• Practicing with own child</li> <li>• Assigning homework</li> <li>• Providing materials</li> <li>• Reviewing goals and progress</li> </ul>	<ul style="list-style-type: none"> <li>• Modelling</li> <li>• Demonstrations</li> <li>• Role-plays, practice and rehearsal</li> <li>• Positive and supportive feedback</li> <li>• Goal setting</li> <li>• Collaborative problem-solving</li> <li>• Classroom assignments</li> <li>• Providing resources</li> <li>• Group/peer support</li> </ul>

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864 **Table 2. How Parents' Interview Responses were used in the Development of the Intervention**

Topic	How the Information was Used in Intervention Development
Common misbehaviours and reasons for slapping child	<p>Practice activities were designed to demonstrate and practice how to teach desired skills to children (e.g. how to pack up toys, how to put toothpaste on a toothbrush, how to put dirty clothes in the wash basket).</p> <p>Common misbehaviours were used in a problem-solving activity to encourage parents to consider why children misbehave (e.g. why do children climb the grill, use the mother's lotion, and use bad words).</p> <p>Role-plays were designed to encourage parents to problem-solve how to use the strategies to manage child misbehaviour (e.g. role play of a child having a tantrum, jumping on the bed, child non-compliance). Parents discuss potential solutions and then role play how to implement them.</p> <p>The information was used to design visual aids depicting children exhibiting common misbehaviours that resonated with the parents (e.g. jumping on the bed, climbing up the grill, marking on the wall with crayon, hitting their sibling).</p>
Instructions given to child repeatedly	<p>The phrases reported by parents were used to design role-plays to help parents to give clear instructions. The role plays involved the facilitator using common ineffective instructions (e.g. 'Behave yourself', 'settle down', 'relax yourself', stop doing that') and the parents would problem-solve how to change the ineffective instruction to an effective instruction</p>
Typical games /toys children play with	<p>The parental responses informed the play materials that would be used in the programme. These included colouring, blocks, cars, animals, kitchen set and picture books.</p> <p>The responses were also used to help parents think about what activities can be done in Irie Time.</p>
Words used to praise and to reprimand child	<p>These words were used in the dialogue for role-plays. This ensures the content was relatable to parents.</p>
Household routines, common activities and common issues	<p>Visual aids were developed to depict everyday routines of children and parents (e.g. eating breakfast, bathing, brushing teeth, getting dressed) and common household chores (e.g. washing clothes, making dumplings, sweeping). These visual aids were used to encourage parents to think about 1) what they can say to their child, 2) what they can praise their child for, 3) what skills they can teach their child, 4) how they can involve their child, and 5) how they can promote choice and independence.</p>

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## Design and Implementation of The Irie Homes Toolbox

867 **Table 3. Decisions made to Improve the Acceptability, Feasibility, and Relevance of the**  
868 **Intervention**

<b>Acceptability</b>	<b>Decisions Made to Increase Acceptability</b>
Fun and engaging	<ul style="list-style-type: none"> <li>• The session structure incorporates variety to maintain interest.</li> <li>• Sessions start with an action song or game to engage the parents and set the tone for the rest of the session.</li> <li>• Games are used to teach parents how to use strategies.</li> <li>• Skits showing ineffective parenting behaviours are humorous and the behaviours are exaggerated to evoke laughter.</li> <li>• Parents are provided with multiple opportunities to actively participate in the session through games, practice activities, role plays, and discussions.</li> <li>• Visual aids depict funny and relatable scenarios that make parents laugh and prompt thought processes.</li> </ul>
Acknowledges parents' strengths	<ul style="list-style-type: none"> <li>• Parents share positive strategies they are using and are praised for using them.</li> <li>• Parents share how they use the strategies at home with their child.</li> <li>• Parents are encouraged to identify ways in which they are being a good parent and to praise themselves for their positive parenting skills.</li> </ul>
Parents see benefits to themselves and their child	<ul style="list-style-type: none"> <li>• Brainstorms and discussions are done to point out benefits of the strategies.</li> <li>• After practicing a strategy, participants share how using the strategy made them feel and how they think their child will feel.</li> </ul>
<b>Feasibility</b>	<b>Decisions Made to Increase Feasibility</b>
Logistics of session: Timing and duration	<ul style="list-style-type: none"> <li>• The sessions are conducted at a convenient time: either in the mornings when parents drop off their child or in the afternoon after school, depending on the availability of parents in the group. Sessions are conducted while the child is at school so they don't need to arrange for child care.</li> <li>• The sessions are relatively short, lasting about 90 minutes. This is a realistic amount of time for the teacher to dedicate to the session and appropriate length of time for parents.</li> <li>• The intervention includes eight sessions so the intervention can be feasibly delivered within one school term.</li> </ul>
Minimum equipment required to conduct intervention	<ul style="list-style-type: none"> <li>• All visual aids were designed to be hand-held and we choose not to use a flip-charts and a flip chart stand to display materials or to scribe parents' responses.</li> <li>• No videos, audios or presentations were included in the intervention so no special equipment or electricity supply was required.</li> <li>• To minimise the need for furniture, cardboard placed on parents' laps was used instead of a table for the play activities with their child.</li> <li>• All materials for the programme are stored in a portable plastic container.</li> </ul>
Parents are able to use strategies in their daily lives	<ul style="list-style-type: none"> <li>• The content presented easily fits into parents' daily routines with their children.</li> <li>• Resources required are provided or readily available to participants at home.</li> <li>• Strategies are presented and practiced in a clear and detailed way so that parents can easily generalise what is done in the sessions to their real lives.</li> <li>• Parents are supported in setting goals as to how and when they will use strategies in their own lives.</li> </ul>
Individualizing the content	<ul style="list-style-type: none"> <li>• Parents are encouraged to share any difficulties faced with their use of the strategies at home and to engage in group problem-solving.</li> </ul>
<b>Relevance</b>	<b>Decisions Made to Increase Relevance</b>
Scenarios/examples resonate with parents	<ul style="list-style-type: none"> <li>• We incorporated content that resonated with parents the most.</li> <li>• Content that seemed irrelevant or did not resonate was discarded, reconsidered, or refined to make it more relatable.</li> <li>• Additional content and supporting materials were designed based on examples or stories parents shared that resonated with the group.</li> </ul>
Include content related to homework	<ul style="list-style-type: none"> <li>• As the parenting intervention is designed to be integrated into the services provided by preschools, we included a session on how parents can support their child's homework. This included content on homework routines, explaining the task, scaffolding their child and providing positive and corrective feedback.</li> </ul>



869 **Table 4. Decisions Made to Improve Effectiveness of the Intervention**

<b>Effectiveness</b>	<b>Decisions Made to Increase Effectiveness</b>
Logistic of session: Group size	<ul style="list-style-type: none"> <li>• The group size is small (6 participants) so that each participant gets an opportunity to practice skills with individual support.</li> <li>• Groups include an even number of participants to facilitate practicing in pairs as this maximises engagement.</li> </ul>
Parent understanding of skills and using the strategies	<ul style="list-style-type: none"> <li>• Facilitators model the use of the strategies throughout the sessions.</li> <li>• Facilitators demonstrate clearly what parents are expected to do.</li> <li>• Picture cards depicting the strategies are shown and discussed.</li> <li>• Simple guidelines outlining the steps used in each strategy are drafted to help parents understand and remember the content.</li> <li>• Hand-held charts are used with the steps listed in a clear, succinct manner to reinforce these guidelines. However, the numbers of charts per session were kept to a minimum to ensure sessions didn't become didactic.</li> </ul>
Parents are motivated to use the strategies	<ul style="list-style-type: none"> <li>• Parents are given positive feedback when they use the strategies in the group and when they share how they used the strategies at home.</li> <li>• The benefits of the strategies are discussed.</li> <li>• Parents asked to share how they feel when the strategies are used with them in the role of the 'child' and asked how they think their child would feel.</li> </ul>
Parents use strategies at home	<ul style="list-style-type: none"> <li>• Home assignments are given that encourage parents to use the strategies at home.</li> <li>• To add a level of accountability, simple record forms, requiring little reading and writing, were designed for parents to record their use of the strategies at home.</li> <li>• Each session starts with parents sharing how they used the strategies in the previous week.</li> <li>• A take-home card for parents was developed for each session. The card included the key points from the session, written in a succinct, simple, reader-friendly style to act as a prompt for parents to use the strategies.</li> </ul>
Parents can generalise to a variety of situations	<ul style="list-style-type: none"> <li>• Parents set individual goals of how they will use the strategies across different context and situations. This encourages parents to consider how the strategies can be integrated into their daily lives and increases the chances of them using it.</li> </ul>
Collaborative, supportive / non-critical	<ul style="list-style-type: none"> <li>• Parents are encouraged to openly share their struggles with parenting and to engage in group problem-solving.</li> <li>• Parents are encouraged to use their own phrases, expressions, and display their own personality during role-plays.</li> <li>• Facilitator demonstrates the use of the strategy before parents are required to practice.</li> <li>• Facilitator models the use of the strategies throughout the sessions.</li> <li>• Facilitator prompts parents to use strategies.</li> <li>• Facilitator gives parent positive feedback when they use or practice the strategies.</li> <li>• Parents are encouraged to praise each other.</li> </ul>
Session structure	<ul style="list-style-type: none"> <li>• In addition to discussions, demonstrations, practice and rehearsal with the parents, we decided to include the opportunity for parents to also practice the child-led play activities with their child as an integral part of each session. During this practice activity, parents receive support and feedback from the facilitators.</li> <li>• Children are brought out for the play session for 15 minutes and then return to class. Debriefing of the activity and recap of the session then occurs.</li> </ul>

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872 **Table 5. Refinements Made to the Content, Delivery, Materials, and Structure of the**  
 873 **Intervention**

Type of Refinement	Examples and Rationale for Refinement
<p><i>Additional Content</i></p> <p>Included content that would explicitly benefit parents</p>	<ul style="list-style-type: none"> <li>• Self-praise: each week parents share one thing they are proud of as a parent. This was necessary as we recognized that the parents found it difficult to identify and verbalise their positive parenting skills.</li> <li>• Me Time: to encourage parents to take time out of the day to relax and de-stress.</li> </ul>
<p><i>Content Misunderstood/Hard to Grasp</i></p> <p>Refinement included: changing the delivery format or including an additional mode of delivery to better elucidate the concept.</p>	<ul style="list-style-type: none"> <li>• Include additional demonstrations by the facilitator prior to having the parents role-play a skill when necessary. This ensured the parents had a better understanding of how to use the strategy prior to participating in the activity.</li> <li>• Prior to participating in a practice activity, show a picture card of a parent using the strategy to stimulate discussion. This helped as parents had more ideas of what they could say or do in a particular activity with their child.</li> <li>• Brainstorm different words, phrases and actions parents can say or do before they participate in a role-play to give parents explicit ideas of how to act in the role-play. This increased their understanding of the content and their confidence to use the strategy.</li> </ul>
<p><i>Session Structure</i></p> <p>Include a structured feedback section in each session where parents share how they completed the home assignment.</p>	<ul style="list-style-type: none"> <li>• More structure was given to the feedback part of the session to encourage parents to do the home assignments. Each parent shared how they used the strategies at home, using the weekly record sheet as a guide. This demonstrates the importance of completing the assignment and shows that it is expected that program participants engage with the material at home.</li> <li>• If parents were unable to complete the assignment, they are helped to problem-solve to increase the likelihood that they will complete the assignments going forward and are able to use the strategies at home.</li> </ul>
<p><i>Additional materials:</i></p> <p>Irie Parent Oath Irie Tower</p>	<ul style="list-style-type: none"> <li>• At the end of the final session of the program parents sign an oath that they will continue to be an Irie Parent and use the strategies learnt. The oath is designed to help parents self-identify as an Irie Parent.</li> <li>• We designed a visual representation of the program, called the IRIE Tower. The content covered through the parenting sessions is represented by blocks in the Irie Tower. And after each session one or more blocks are added to the tower until it is complete. This helps parents to track their progress and provides the opportunity to continually review prior content. It also acts as a simple memory aid for parents to remember what they have learnt and how to apply the strategies in their daily interactions with their child.</li> </ul>
<p><i>Building in Redundancy</i></p>	<ul style="list-style-type: none"> <li>• We revised the parent training scripts to ensure that the key concepts are reinforced as often as possible in every session.</li> <li>• The Irie Tower is used every week to review the blocks already covered as well as to discuss the new blocks added during the session.</li> </ul>
<p><i>Additional training guidelines for the co-facilitator</i></p>	<ul style="list-style-type: none"> <li>• To promote the engagement of the co-facilitator in the parent sessions, we designed a structured, scripted role in the session for the co-facilitator which was made explicit in the script. This role included participating in role plays and demonstrations, prompting and coaching parents as they practiced the activities, promoting parent engagement and assisting parents as they practiced with their child.</li> </ul>

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876 **Table 6. Parents' Perceptions of the Benefits of the Irie Homes Toolbox**

Subtheme	Examples of Quotes
<b>Benefits to Parents</b>	
Parent is better able to regulate emotions	<p>“It help me because I can look at myself and say alright I am going to try to control my anger, I’m going to try to control my temper, I am going to try and control my emotions.”</p> <p>“I learn how to control my emotions and not to take it out on them. When they are doing anything is either I correct them or give them their time or I send them in their room or something.”</p> <p>“She teaches us when ignorancy (anger) come we must take in a little breath .. and know how to cool down with them because during that time we taking our breath, now you thinking something different.”</p>
Parent bonds more with child	<p>“It make me spend more time with them and help me to identify when something is wrong with them and it also helps to meet their needs more.”</p> <p>“Mother daughter time. It help me a lot. I would play with her but not that much but since I come to the irie time, I tend to play with her more often, ... we sing together, we do a lot of stuff that irie time has teach me.”</p> <p>“I used to find myself being busy never used to want sit down with my kids. I used to sit down with them but for like one minute or two but nowadays I find myself that I sit with them all hours playing games or reading or so”</p>
Parent uses less violence against children	<p>“I stop beating I just start putting him in the corner. I just used to lick (hit) him for .every little thing and I just stop do that and put him in the corner ...so I realize that beatings don’t have anything to do with it cause you beat them and them still not going to hear.”</p> <p>“It help me to not to lick (hit) him. The first time I would say nothing not wrong with a little beating and she tell we other ways we can go about it. It really helpful.”</p>
Increased confidence and pride in parenting skills	<p>“It help me as a mommy, it make me feel proud of myself as a mother.”</p> <p>“It make me a better parent.”</p> <p>“I feel like I am a better person overall – my part playing a mommy, I’m a role model.”</p>
<b>Benefits to Children</b>	
Increased autonomy and responsibility	<p>“Yeah because all shoes them now, she put them under the dresser plus her dirty clothes, she put it in the basket without me have to tell her.”</p> <p>“He is not throwing down his things where they are not supposed to be, he puts them where they are supposed to be.”</p>
Increased participation in chores	<p>“She sweep out the room, she will spread up the bed. Sweep off the veranda, just to get praise.”</p> <p>“Yes, she want help me cook, she never normally would want to help me cook.”</p> <p>“Sometime you don’t even have fi tell him about sweep. He grab di broom and sweep.”</p>
Increased level of compliance by child	<p>“If you tell her fi sit down she listen, it change her a whole heap because first time me talk to her she doesn’t listen.”</p> <p>“It helped me a lot because certain things I would have to be telling *child’s name* like every day and I don’t have to be telling him again. Like I told him once and he does it.</p>
Decrease in occurrence of tantrums and/or disruptive behaviours	<p>“...he is more calmer, he know how to share like it helps, even with the blocks. Instead of jumping up and down and doing things that is not right to get your attention.”</p> <p>“She don't do the rude things that she used to do like fight or curse.”</p> <p>“She has become less aggressive.”</p> <p>“Him wouldn’t cry, like him would come and say me can get this please? And if me say no you can’t get it, him just go sit down. Him wouldn’t just bawl (cry) again.”</p>
Programme promotes positive behaviour and emotions	<p>“He would do more good things to get your attention, so he wants to be good cause he wants your attention so you get less trouble and more good.”</p> <p>“Like him just turn this loving person, everyday ...as him come home, him just hug you and kiss you, good evening, good morning- as morning come he is coming to wake you up first to come and hug you and kiss you.”</p> <p>“She’s more happy and contented.”</p>

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879 **Table 7. Teachers' Perceptions of the Benefits of the Irie Homes Toolbox**

## Design and Implementation of The Irie Homes Toolbox

Subtheme	Examples of Quotes
<b>Benefits to Parents</b>	
Parents show better emotional self-regulation	“I realize that ... they were better able to manage their emotions so they were calmer and I saw it in how they dealt with the children.”
Parents praise their child more	“Praising the child more, they actually praise the child a lot more now. Yes and praising the child for what they’ve done, focusing on the positive.”
Increased parental interest in school activities	“You are now seeing the parents having more interest in how their children learn and the things that they do.”
Stronger parent/child relationship	“Parents are spending more time with the child...interacting and getting to know their child, and know what their child is about.” “He [father] seems to be much closer to his daughter than usual.”
Parents use less violence against children	“Instead of shouting at the child, screaming at the child, barking at the child and the licking, once they started learning how to manage the behaviour, that gradually went.” “Well, some parents would’ve spoken to the children in a very negative manner, they would shout at them, they would call them names and you’re seeing a minimal amount of that now.”
<b>Benefits to Children</b>	
Children have fewer behaviour difficulties	“He [child] has changed because him nuh fling down himself anymore ... Him nuh throw down and carry on, no tantrum nuh throw, nuh nothing.” “He always is very aggressive but now he’s calming down a little bit more.”
Children show increased confidence	“It has built their confidence because like before some of them would’ve been a little bit more on the reserve side now they’re interacting more, they’re talking out more”
Children show increased autonomy and responsibility	“Yeah they are excited, always wanting to do something all when nothing is on the floor they are sweeping. Yeah, they just want to be helpful.” “They’re better able to do some stuff for themselves as well... Alright so where they couldn’t lace or tie before, you’re seeing more children saying teacher I can tie my shoelace or teacher I can button.”
<b>Benefits to Teacher</b>	
Teachers have increased emotional self-regulation	“So it actually show me .. how to manage my emotions, do not lose temper, being in control, it actually help me to do that.”
Teacher uses less violence against children at home and at school	“So interacting with this program it has now rounded me a little bit more on how to effectively parent without administering slaps.” “I make sure that you’re not supposed to shout; IRIE Teachers are not supposed to hit.”
Teacher increased use of other strategies from the Toolbox at home and at school	“It help me with the praising, the modelling, knowing each child in the classroom, so praising and awarding them like that is one of the biggest things for my class, and withdrawing attention.” “It also helps me deal with my daughter....I give her the clear instructions.. and when she do good things, I praise her.”
<b>Benefits to Parent-Teacher Relationship</b>	
Stronger parent-teacher relationships	“We work together and anything they can come to me and they can talk with me, they can send messages, they write notes. We have a communication.” “It’s easier on me now because they understand some of the things that I have been trying to build with the children so they are better able to help me.”
Teacher shows more empathy towards parents	“So things that I took for granted that they knew, they really didn’t know. It was like an eye opener and it taught me how to be a little more patient and tolerant with them.” “I’m realizing that some of them really didn’t know so my patience level stepped up a notch, my tolerance level stepped up a notch.”

881 **Table 8. Areas of the Intervention Requiring Revision as Extracted from the Process**  
 882 **Evaluation Tool and Changes Made**

Issues Identified	Changes Made
A core component of the programme is the use of modelling (that is being a role model for your child). The strategy modelling was not explicitly introduced, it was discussed and explained when it came up organically during a session.	<ul style="list-style-type: none"> <li>• Incorporate content in the intervention so that it is explicitly addressed.</li> </ul>
Parents sometimes missed a session and the sessions are cumulative. Therefore, a strategy to ensure parents can catch up is required.	<ul style="list-style-type: none"> <li>• During the feedback portion of the sessions, prompt parents to demonstrate how they used the strategies at home, instead of simply discussing it. This ensures that parents who have missed a session see a demonstration of the skills.</li> </ul>
Games were used to introduce some skills and parents sometimes had difficulty generalising the skills used in a game to an activity with their child.	<ul style="list-style-type: none"> <li>• After playing the game, conduct a brainstorm of different things parents can say and do with their child during the activity.</li> <li>• Include a demonstration or role-play to show parents how the skills taught in the game can be applied to their child.</li> </ul>
For some of the practice activities, parents needed additional scaffolding before being asked to practice the activity themselves.	<ul style="list-style-type: none"> <li>• Develop different delivery methods to make the skills clearer. For example, incorporate additional demonstrations, provide clear and simple guidelines of the steps demonstrated, use a visual aid showing the strategy in use, and/or brainstorm with parents what they can say or do prior to asking them to practice the activity.</li> </ul>
There were times when parents were less engaged with the material in the sessions.	<ul style="list-style-type: none"> <li>• Make adaptations to maximise parent participation by revising the delivery mode for the content to make it more fun, engaging and interactive.</li> </ul>
Labelling children's emotions was a relatively new concept for parents and they often reported that they did not use this strategy at home.	<ul style="list-style-type: none"> <li>• Develop additional practice activities in labelling emotions and include additional emphasis on the rationale for labelling children's emotions so that parents view this as important.</li> </ul>
Although the simple and clear guidelines outlining the steps in using a strategy were generally helpful, some parents stuck to the guidelines too rigidly and missed opportunities to expand their interaction with child.	<ul style="list-style-type: none"> <li>• Facilitators need to make it clear that the guidelines can be used like a recipe. The steps provide the overall structure and parents can add additional steps to it according to their child's interests, needs and responses.</li> </ul>
In the session that included problem-solving activities around managing child misbehaviour, parents often chose the same three strategies (clear instruction, chillax, and consequences), rather than using the full range of skills introduced in the programme.	<ul style="list-style-type: none"> <li>• Develop a wider variety of child misbehaviour scenarios to ensure there is a good match for each strategy introduced through the programme.</li> <li>• Developed additional visual aids depicting these child misbehaviours.</li> </ul>
Parents sometimes found it difficult to see things from their child's point of view.	<ul style="list-style-type: none"> <li>• Provide additional opportunities for parents to play the role of the 'child' especially in situations in which they were less empathic.</li> <li>• Incorporate discussions around child's point of view.</li> </ul>

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885 **Table 9. Session Content of the Irie Homes Toolbox**

Session	Key Topic	Core Content	Child-Led Play Activity
<b>Promoting Positive Behaviour</b>			
1	Praise	Paying attention to your child’s positive behaviour. Spending individual time (Irie Time) with your child. Praising yourself.	Colouring 886 887 888
2	Praise Throughout the Day	Giving your child positive attention during daily activities by describing what your child is doing and responding to your child. Involving your child in household chores. Taking time out of the day to do something you like (Me time).	Blocks 889 890 891
<b>Preventing Misbehaviour</b>			
3	Clear Instructions	How to give your child clear instructions. Knowing your child.	Picture Book (My School Day) 892
4	Why children Misbehave	Understanding the reasons for child misbehaviour. Explicitly teaching your child the behaviour you want/household rules. Giving your child choice and independence.	Blocks and Animal 893 894
<b>Understanding Emotions: Parent and Child</b>			
5	Emotions	Understanding how your own emotions affect the way you respond to your child’s behaviour. Ways to calm down when feeling angry. Labelling your child’s emotions. Turtle technique to help your child control his/her anger.	Picture Book (My Emotions) 896 897
<b>Managing Misbehaviour</b>			
6	Managing Misbehaviour 1	Redirecting your child’s attention and behaviour. Withdrawing attention from attention seeking behaviours. Repairing the parent-child relationship after dealing with a misbehaviour.	Blocks, Animals and a Vehicle 898 899
7	Managing Misbehaviour 2	How to use Chillax (timeout for misbehaviour). Giving appropriate consequences. Repairing the parent-child relationship after dealing with a misbehaviour. Problem solving- applying suitable strategies learnt to different scenarios.	Pretend Play (Kitchen set) 900 901 902
<b>Supporting Homework</b>			
8	Helping with Homework	Establishing a homework routine. Scaffolding your child when doing homework. How to give your child positive and corrective feedback.	Picture Book (My Day Mommy) 903 904

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907 **Figures**

908 **Figure 1. Stages in the Development of the Irie Homes Toolbox**

909 **Figure 2. Theory of Change**

910 **Figure 3. Acceptability, Feasibility, Relevance and Effectiveness of a Behaviour Change**  
911 **Intervention**

912 **Figure 4. The Irie Tower: Pictorial Representation of the Strategies Introduced in The Irie**  
913 **Homes Toolbox**

914 **Figure 5. Examples of Resources Used in The Irie Homes Toolbox**

915 **Figure 6. The Irie Parent Oath**

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918 **Figure 1. Stages in the Development of the Irie Homes Toolbox**

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**Stage 1: Preliminary intervention design (2 months)**

- Identify the common core elements of evidence-based, early childhood programmes targeting child behaviour management and violence prevention.
- Interview parents of preschool children to identify common child misbehaviours, discipline strategies used, and examples of everyday activities of Jamaican parents and young children.
- Develop theory of change to underpin the intervention design.

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Design Preliminary Content

**Stage 2: Design first draft of intervention (2 months)**

- Pilot material with small groups of parents in four community preschools to:
  - 1) Decide on session logistics, for example optimal group size, duration and number of sessions.
  - 2) Develop the structure for each session.
  - 3) Pilot the content to be introduced.

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First Draft of Intervention Produced

**Stage 3: Design of final draft of intervention to be tested in a cluster randomised trial (3 months)**

- Pilot the programme with two groups of six parents in five community preschools (60 parents in total) in collaboration with a preschool teacher and document:
  - 1) Parent and teacher attendance and participation,
  - 2) Parent, teacher and facilitator suggestions for improvement relating to the content, process of delivery and materials used.

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Final Draft of Intervention

**Stage 4: Implement intervention and conduct ongoing process evaluation (8 months)**

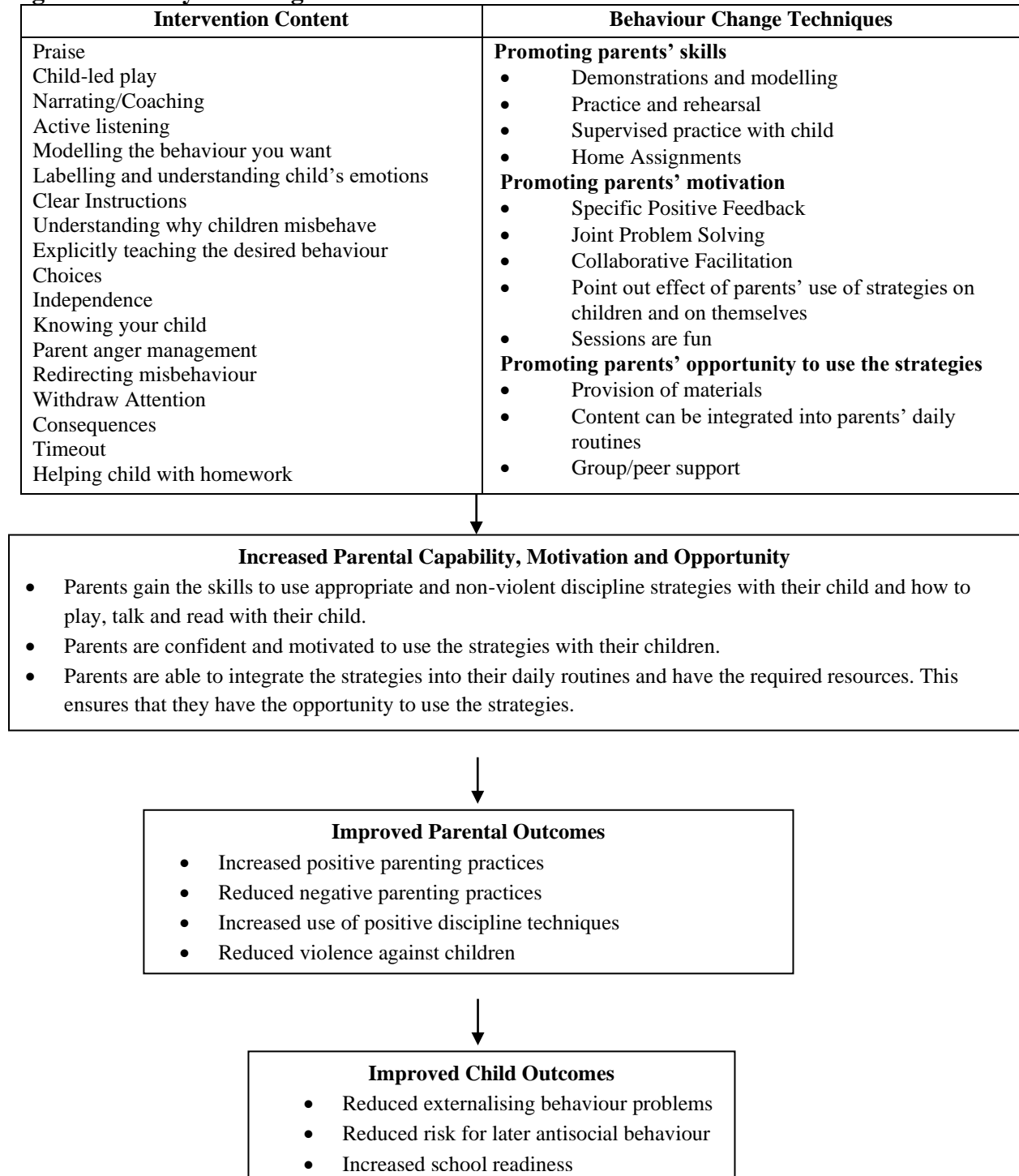
- Implement the programme with 115 parents in 9 schools as part of a cluster randomised trial and collecting data on:
  - 1) Parent attendance and reasons for non-attendance.
  - 2) Enablers and barriers to implementation related to the content and process of delivery at the level of the parents, children, teacher/school, facilitator and context.

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Final Version of the Irie Homes Toolbox



## Design and Implementation of The Irie Homes Toolbox

**Figure 2. Theory of Change**



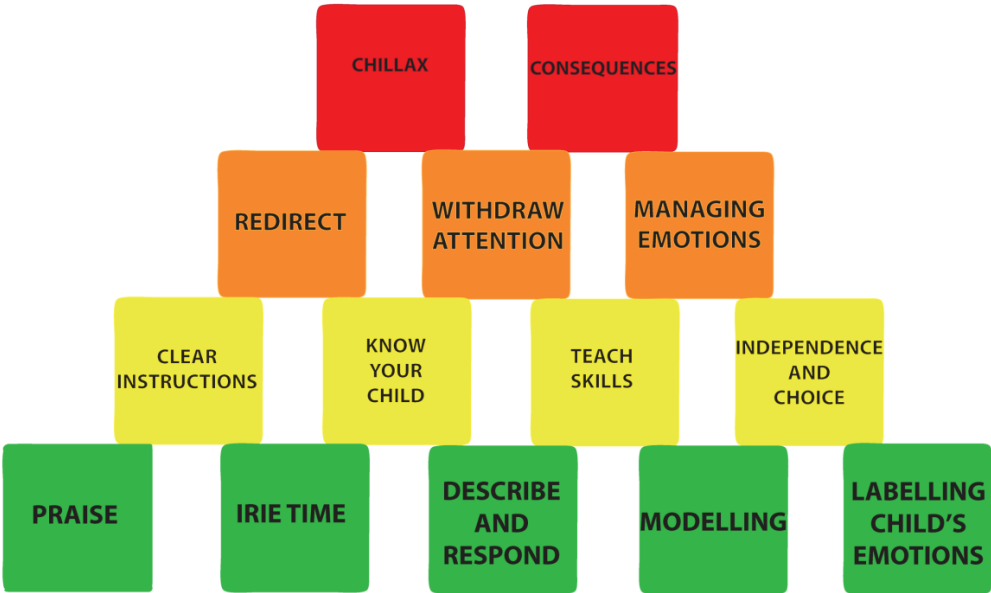
## Design and Implementation of The Irie Homes Toolbox

**Figure 3. Acceptability, Feasibility, Relevance and Effectiveness**

<b>Content</b>		<b>Method of Implementation</b>
Strategies introduced are acceptable to the participants in that they build on parents' current practices and are mostly familiar in the context.	<b>← Acceptable →</b>	<ul style="list-style-type: none"> <li>• Delivered in a supportive and collaborative way.</li> <li>• Sessions designed so that they are collaborative, fun and interactive rather than didactic</li> </ul>
Parents are able to use the strategies in their daily lives and can integrate their use of the strategies across multiple contexts.	<b>← Feasible →</b>	<ul style="list-style-type: none"> <li>• Logistics of the session (e.g. timing, location, duration, size of group) are designed to promote participation</li> <li>• Parents engage in rehearsal and practice activities in the session and receive feedback to ensure they can use the strategies correctly.</li> <li>• Facilitator helps parents to problem solve if they have issues using strategies at home with their child</li> </ul>
Information given and skills taught addresses the perceived needs of the participants	<b>← Relevant →</b>	<ul style="list-style-type: none"> <li>• Visual aids were drawn to depict scenarios given by parents. The pictures were drawn to be relatable to the demographic being targeted.</li> <li>• Skits, role-plays and practice activities are designed with input from parents so that they can easily relate to the material</li> <li>•</li> </ul>
Content is based on evidence informed principles and theory.	<b>← Effective →</b>	<ul style="list-style-type: none"> <li>• Evidence based behaviour change techniques are used including demonstrations, role-plays, rehearsal and practice, modelling, positive feedback, goal setting and home assignments.</li> <li>• Parents are encouraged to generalize the skills learnt</li> </ul>

**Design and Implementation of The Irie Homes Toolbox**







**Figure 4. The Irie Tower: Pictorial Representation of the Strategies Introduced in the Irie Homes Toolbox**




# Design and Implementation of The Irie Homes Toolbox

Figure 5. Examples of Resources Used in The Irie Homes Toolbox


**(A) Examples of picture cards used to teach skills and prompt discussions**

**(B) Examples of charts to reinforce key points: below are the charts used when discussing Irie Time**

**DO** 

- **DESCRIBE** what your child is doing.
- **RESPOND** to your child.
- **PRAISE** your child.

**DON'T** 

- **GIVE** instructions
- **ASK** questions
- **CRITICISE OR CORRECT**

**(C) Example of a take home card: below is the card from session 1 (card printed double sided, front-back)**


**PRAISE YOUR CHILD**

WHY: The more you praise your child, the more good things they do.

Describe what your child is doing	Praise	Name
HOW: You are buttoning your shirt	Good boy	Tyler

**When praising:**

- Use an excited voice
- Make eye contact
- Smile with your child
- Use positive touch (hug, kiss or high 5)



**You can praise your child for:**

- Doing homework
- Helping mommy
- Sharing with brother or sister
- Doing what mommy says
- Sitting quietly watching T.V.






**Praise Yourself:**

- "I am a good mommy. I took time out of my day to spend IRIE Time with my child."
- "I was patient with my child while helping her with homework."


**Spend IRIE Time With Your Child (10 minutes a day)**

IRIE TIME is when you and your child have fun together, doing what your child wants.


WHY: IRIE Time makes your child feel special and builds a close relationship.

**During IRIE TIME:**

**DO** 

- Describe what your child is doing
- Respond to your child
- Praise your child

**DONT** 

- Give instructions
- Ask questions
- Criticise or Correct your child

**(D) Examples of home assignments: the examples below are from sessions 3 and 4**





**IRIE PARENT ACTIVITY**

**IRIE TIME WITH A PICTURE BOOK**

When looking at books:

- NAME things in the book.
- DESCRIBE colours/concepts.
- TALK about what people are doing.
- LOOK things in the book to your child's life.
- RESPOND to your child.
- PRAISE your child.

**OTHER IRIE TIME**

-  Blocks
-  Pretend Play
-  Picture Reading
-  Football/Catch

**I AM AN IRIE PARENT!**

**IRIE PARENT ACTIVITY**

**I LAUGHT MY CHILD A SKILL**

Tick the box when you do the following.

Skill	I reminded my child to use the skill	I praised my child	I had Irie Time
<input type="checkbox"/> TOLD <input type="checkbox"/> SHOWED <input type="checkbox"/> LET <input type="checkbox"/> PRAISED	<b>SUNDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>MONDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>TUESDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>WEDNESDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>THURSDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>INDEPENDENCE</b> <input type="checkbox"/> I gave my child some independence	<b>FRIDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>SATURDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>SUNDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>CHOICE</b> <input type="checkbox"/> I gave my child a choice	<b>MONDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>TUESDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>WEDNESDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>THURSDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>FRIDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>SATURDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>SUNDAY</b>	<input type="checkbox"/>	<input type="checkbox"/>

Figure 6. The Irie Parent Oath

I AM AN IRIE PARENT		
	I praise my child and describe what he/she is doing to get the praise.	<input checked="" type="checkbox"/>
	I have IRIE Time with my child for at least 10 minutes every day.	<input checked="" type="checkbox"/>
	I praise my child many times throughout the day.	<input checked="" type="checkbox"/>
	I give my child choices.	<input checked="" type="checkbox"/>
	I find ways to give my child some independence.	<input checked="" type="checkbox"/>
	I give clear instructions and I tell my child exactly what to do (NOT WHAT NOT TO DO).	<input checked="" type="checkbox"/>
	I teach my child the household rules.	<input checked="" type="checkbox"/>
	I label my child's emotions and describe why he/she feels that emotion.	<input checked="" type="checkbox"/>
	I know how to manage my negative emotions. ( <i>I calm down before I discipline my child.</i> )	<input checked="" type="checkbox"/>
	I try to understand the reason for my child's misbehaviour before disciplining him/her.	<input checked="" type="checkbox"/>
	I am good at helping my child with his/her homework.	<input checked="" type="checkbox"/>
Signed: _____		