Estimates suggest that up to 40 million children under age 14 experience abuse or neglect each year around the world. In a study of 12,000 mothers in five developing countries, as many as half reported hitting a child with an object, spanking, slapping, pinching, shaking or otherwise harshly physically disciplining. In South Africa, there is evidence that “violence against children is ubiquitous. Beatings take place daily or every week. Sticks, belts, or other weapons are used and injury is common.” These figures are likely to be gross underestimates of the reality.

Parenting and child maltreatment

While many factors are known to increase the risk that a child will be maltreated, substantial research points to negative, poor or harsh parenting as major risk factors for maltreatment. Conversely – even in high-risk situations – positive parent–child relationships and a sensitive, responsive and consistent style of parenting, particularly in early childhood, can play protective roles in child development. Parenting factors can buffer and mediate the effects of wider family and community factors on children’s development, particularly conduct disorder.

In short, parenting interventions are an important and potentially fundamental approach to the prevention of child maltreatment and promotion of safe, nurturing, non-violent home settings, both in the immediate family and in the next generation.

About parenting interventions

Parenting interventions are the most common form of preventive intervention for addressing child maltreatment in the home. They include a broad range of programmes aimed at many different outcomes, some of which may influence risks of maltreatment or harsh parenting more than others (e.g., pre-/post-natal home visiting programmes, safety training for parents to reduce unintentional injury, interventions which address specific health conditions, interventions to reduce child conduct problems). These may be delivered to individual parents, groups of parents or parents along with their children, at home or in health or community settings.

Even parenting interventions which do not measure explicit maltreatment-related outcomes (such as police reports of abuse) are highly relevant in efforts to reduce child abuse and interpersonal violence in low- and middle-income countries.
maltreatment. Responsiveness to child needs, strength of the parent–child bond, use of more appropriate or positive disciplinary strategies, or reduction in child misconduct are all valid proxy measures for assessing the effects of interventions on the incidence or likelihood of maltreatment.

There are parenting interventions with very strong evidence of effect for improving parenting practices and reducing risk factors for maltreatment. These have been extensively tested among diverse populations in high-income countries over the past several decades, but far fewer rigorous studies have been reported in low- or middle-income countries.

**Results of the systematic review**

This review included randomized controlled trials identified through electronic databases, searching of grey literature and contacts with experts. Twelve studies fit the search criteria, which included 1,580 parents in nine countries (Table 1).

All studies reported positive results of interventions for improving parenting practices based on a range of measures, half of which were self-report measures (which can introduce significant bias) and half of which were observational (which is a more reliable method). Overall, the reliability and validity of results for most studies was unclear due to

**Table 1. Population characteristics of parenting interventions**

<table>
<thead>
<tr>
<th>Study</th>
<th>Country</th>
<th>Participants</th>
<th>Child age</th>
<th>Socioeconomic status</th>
<th>Sample size (n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aracena, Krause et al. 2009</td>
<td>Chile</td>
<td>Pregnant women (3rd trimester)</td>
<td>0–12 months</td>
<td>Extremely poor neighbourhoods</td>
<td>104</td>
</tr>
<tr>
<td>Cooper, Tomlinson et al. 2009</td>
<td>South Africa</td>
<td>Pregnant women (3rd trimester)</td>
<td>0–6 months</td>
<td>Live in shacks, in settlements characterised by very high unemployment and poverty</td>
<td>449</td>
</tr>
<tr>
<td>Jin, Sun et al. 2007</td>
<td>China</td>
<td>Mothers</td>
<td>0–2 years</td>
<td>Most live below poverty line</td>
<td>100</td>
</tr>
<tr>
<td>Kagithcibasi, Sunar et al. 2001</td>
<td>Turkey</td>
<td>Mothers</td>
<td>3–5 years</td>
<td>Squatter housing in urban shantytown; low income</td>
<td>280</td>
</tr>
<tr>
<td>Klein and Rye 2004</td>
<td>Ethiopia</td>
<td>Families</td>
<td>1–3 years</td>
<td>Congested urban slums, overcrowded households and poor sanitation; some live at subsistence levels</td>
<td>96</td>
</tr>
<tr>
<td>Magwaza and Edwards 1991</td>
<td>South Africa</td>
<td>Mothers</td>
<td>mean = 4.5 years</td>
<td>Disadvantaged</td>
<td>90</td>
</tr>
<tr>
<td>Oveisi, Ardabili et al. 2010</td>
<td>Iran</td>
<td>Mothers</td>
<td>2–6 years</td>
<td>Most fathers were employed</td>
<td>272</td>
</tr>
<tr>
<td>Powell and Grantham-McGregor 1989</td>
<td>Jamaica</td>
<td>Mothers</td>
<td>16–30 months</td>
<td>Below-average housing conditions (e.g., poor sanitation and overcrowding)</td>
<td>58</td>
</tr>
<tr>
<td>Rahman, Iqbal et al. 2009</td>
<td>Pakistan</td>
<td>Pregnant women (3rd trimester)</td>
<td>0–3 months</td>
<td>Many live on income from subsistence farming</td>
<td>334</td>
</tr>
<tr>
<td>Teferra and Tekle 1996</td>
<td>Ethiopia</td>
<td>Families</td>
<td>6 months – 3 years</td>
<td>Congested urban slums, overcrowded households and poor sanitation; some live at subsistence levels</td>
<td>30</td>
</tr>
<tr>
<td>Van Wyk, Eloff et al. 1983</td>
<td>South Africa</td>
<td>Mothers</td>
<td>8–12 years</td>
<td>Advantaged</td>
<td>26</td>
</tr>
<tr>
<td>Wendland-Carro, Piccinini et al. 1999</td>
<td>Brazil</td>
<td>New mothers</td>
<td>2–3 days</td>
<td>‘Low’ or ‘median’ housing conditions</td>
<td>38</td>
</tr>
</tbody>
</table>
significant or unclear risks of bias. The two largest and highest-quality studies – from South Africa and Pakistan – suggest that parenting interventions in some low- and middle-income countries can improve parent–child relationships and reduce negative parenting practices, both of which are protective factors against child maltreatment. These high-quality studies are models for intervention design and evaluation in low-resource settings. For example, they suggest that it is feasible to:

- use non-professional local staff to deliver interventions to parents;
- deliver interventions through home visits; and,
- add interventions to routine health services for pregnant women and new mothers.

All of these factors are of particular relevance in low-resource settings, where professional staffing may not be feasible or affordable at scale; health facilities may be inaccessible for many people, particularly in rural areas or in countries with weak health systems; and use of existing service delivery mechanisms (e.g., home visits) is more cost-effective and may be more familiar or acceptable to local populations.

Results of the systematic review

There is increasing interest in and research on the effectiveness of transporting interventions from one culture or country to another, and a growing body of evidence on transporting interventions with an established evidence base from one high-income country to another. Some trials have reported successful ‘transportation’ of well-tested parenting interventions, while others have had more disappointing results.

Many of the studies included in this review implemented interventions which were transported from one country to another. However, in general, these interventions did not have a high-quality evidence base (i.e., proven efficacy through randomized controlled trials) in the countries in which they were originally developed. Therefore these trials provide limited information about the potential for transporting efficacious interventions between countries, which is an area in need of more research.

In general, the decision to invest resources in adapting a parenting intervention must pay close attention to the fidelity–adaptation balance: maintaining the ‘active ingredients’ of the original intervention while adapting it to improve acceptability, feasibility and effectiveness (e.g., Backer). Pilot testing of adapted components, and well-designed measurement and evaluation processes are crucial, while additional measures of fidelity or a ‘re-certification’ process may help to ensure adherence to existing principles of the intervention as it is adapted.

Variations in parenting across cultures and contexts make the process of adaptation particularly challenging. Ethnographic and other forms of qualitative research on family dynamics, behaviour and psychology can help to illuminate the risk and protective factors related to child maltreatment or parenting more generally in a culture or context, as a basis for adaptation. At the same time, there is a need for careful consideration of the weight given to such cultural and contextual variations, in light of studies showing that, in some situations and with certain activities, parenting across cultures can be more similar than different.

In assessing the potential for adaptation of interventions, the following issues are of particular importance:

- prevalence of orphan-hood
- gender inequity
- gender-based violence
- migration
- differences in family structures and dynamics (e.g., extended families and living with non-biological carers)
- language and literacy variations
- Poverty and other social and structural pressures
- Practical issues such as lack of water or electricity, lack of a formal meeting place or space, inadequate transport links to get to intervention sites, and safety issues in areas of high crime or violence.
Preventing child abuse and interpersonal violence in low- and middle-income countries

Parenting interventions in the context of HIV and AIDS

Of particular importance in some low- and middle-income country settings is the influence of HIV and AIDS. There is limited research on their effects on the ability to parent and the implementation and effectiveness of parenting interventions. High rates of depression among HIV-positive pregnant women and mothers (e.g., Rochat, Brandt41-42) could complicate recruitment of parents to take part in interventions, and may have implications for intervention effectiveness as parenting itself is known to be strongly influenced by parental mental health. Alternatively, it is worth noting that parenting interventions in high-income countries have been shown to improve parental depression, and to show greater benefits for children of depressed or most-disadvantage parents.43-46

Parenting an HIV-positive child may also be more challenging than parenting a healthy child, as it is often accompanied by the stress of frequent opportunistic infections, the demands of treatment regimes, and fears of child morbidity and mortality. Thus, HIV and AIDS pose problems not only in terms of recruitment and maintenance of parents in interventions, but also with regard to parent stressors. Existing parenting interventions which are adapted for use in areas with high HIV/AIDS prevalence are likely to need additional or specialised components or modifications.

Parenting interventions, gender and preventing future violence

There is a large body of evidence associating child maltreatment and harsh parenting – even mild forms of abuse – with later violent behaviour and perpetration of violent crimes, including interpersonal and intimate partner violence.47-48 Correlational studies have shown that males convicted of violence are more likely to have had parents with authoritarian attitudes about child-rearing and who used harsh discipline.49 The prospective study of partner violence by Capaldi and Clark50 shows that childhood conduct disorder and poor parenting were the strongest early predictors of boys’ partner violence when they reached young adulthood. And there is strong, direct evidence of the general association between conduct disorder, such as aggression, and the risk of abusive, violent or criminal behaviour later in life.50-52 However, most of this research has been done in the United States and other high-income countries, and much more is needed in LMICs. There is also evidence that positive parenting can buffer the effects of community violence or other negative influences. For example, a study of the effects of community violence on children in South Africa suggests the important role parents could play in counteracting the effects of exposure to violence by introducing effective coping mechanisms before children experience violence.53

While the developmental pathways linking parenting and future behaviour of children are clear, there is a paucity of data or evidence on the role of parental gender socialisation in this process. More specifically, the role of gender socialisation in parenting and child/adult aggression remains relatively unclear and studies are characterised by conflicting data (e.g., Webster-Stratton, Fang54). To date, there have been no rigorous parenting intervention studies identified in the literature which include gender socialization as a major component or theoretical construct, and which measure effects on child behaviour.

Recommendations

**Fund more rigorous research and enable thorough reporting of results**

Policymakers and international development donors should encourage and fund more and more rigorously evaluated parent training interventions in LMICs, especially in low-income countries.

Emphasis should be placed on: good evaluation design and thorough reporting of randomisation, allocation concealment, blinding and treatment of missing outcome data; use of standardised, comparable outcome measures; instruments validated for use with the study population, and preferably those which use direct observation rather than self-report. (These should be prioritised by researchers or implementers, and encouraged by funding organisations or donors.)
Test interventions which are adapted from other settings

Policymakers, donors and researchers should take into account the promising body of work on adaptability and effectiveness of parenting interventions across cultural groups within HICs and successful implementation of these programmes outside of trials in LMICs, as a basis for supporting further research into adaptation.

Researchers should also ensure that trials of adapted parenting interventions include qualitative research and/or pilot testing focused, for example, on the following:

- use of low-literacy intervention components;
- testing with single-parent families, non-nuclear/extended families, grandparents or foster parents;
- safety measures in areas of high crime or violence;
- effectiveness of intervention components among HIV/AIDS-affected populations.

Thus, developers of parenting interventions, donors and other stakeholders should consider making fee waivers or reduced fees available to governmental and non-governmental organisations in LMICs.

Increase affordability of evidence-based interventions

Cost-effectiveness is a key issue in terms of choosing which intervention to implement, and whether to adapt an existing intervention or create an original or indigenous programme. The cost of some of the most rigorously tested, manualized parenting interventions (e.g., Sanders, Webster-Stratton\textsuperscript{55,48}) could be a barrier to adoption of evidence-based parenting interventions by governments and non-governmental organizations.

Researchers should consider integrating gender socialisation components or outcome measures into parent training interventions and trials, with particular focus on boys' socialisation and behaviour over time.
References

40. Webster-Stratton C. Training interpreters to deliver the Incredible Years Parent Program: A cross cultural collaboration. 2006.
The Sexual Violence Research Initiative is hosted by the Medical Research Council, South Africa. For the full document and further information on the SVRI go to www.svri.org or email: svri@mrc.ac.za

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