Barriers to, and facilitators of, the prevention of unintentional injury in children in the home: a systematic review and synthesis of qualitative research

Janet Smithson,1 Ruth Garside,2 Mark Pearson2

ABSTRACT
Background This review considers barriers to, and facilitators of, success for interventions to reduce unintentional injury to children in the home through supply and/or installation of home safety equipment, and looks at risk assessments.

Methods A systematic review of qualitative research. Bibliographic databases were searched for studies on interventions to reduce unintentional child injury in the home, or on related attitudes and behaviours. Studies were quality appraised, findings extracted, and a conceptual framework was developed to assess factors affecting the success of interventions.

Results Nine peer-reviewed journal articles were included. Barriers and facilitators were highlighted at organisational, environmental and personal levels. Effective provision of safety equipment involves ongoing support with installation and maintenance. Take up and success of interventions depends on adjusting interventions according to practical limitations and parents’ cultural expectations. A particular barrier was parents’ inability to modify rented or shared accommodation.

Conclusions The review highlights ways in which health inequalities affect the take up and success of home safety interventions, and how health workers can use this knowledge to facilitate future interventions.

INTRODUCTION
Globally, unintentional injury is one of the top 15 causes of death across all age groups of children aged 0–19 years, with road traffic injuries, drowning, fire-related burns and falls being the most common.1–3 It is known that higher levels of injury morbidity and mortality are found among those from more deprived backgrounds, although to date there has been little robust research about the impact of interventions on different socioeconomic groups.2 In 2008, 208 deaths among children aged under 15 were recorded as ‘accidental’ by the UK Office of National Statistics; about half of those are likely to have been sustained at home.3–4 Data from recent UK reports (http://www.hassandlass.org.uk) show that on average, in 2000–2002, nearly three-quarters of a million children aged 0–15 years presented at hospital annually having been injured inside the home. Given variation in injury rates both between and within countries, it is clear that many such injuries are preventable. Previous systematic reviews of the effectiveness of interventions designed to reduce injuries to children in the home have been conducted. These reviews have reported mixed or statistically non-significant home safety equipment use outcomes for the prevention of thermal injuries5 6 and falls.7 However, an improvement in poisoning prevention practices following safety education has been noted.8

Much of the published research in this field is quantitative and has focused on the nature and extent of child injuries in the home and on initiatives to prevent such injuries. In order for parents and initiative providers to be effectively engaged in any interventions, an understanding of the motivations and barriers to uptake is required. Qualitative studies that focus on attitudes towards, behaviours and understanding of safety and injury prevention can be vital in envisaging how interventions could be made more effective.

The research question posed by the Centre for Public Health Excellence (CPHE) which stimulated this review was ‘What are the barriers to, and facilitators of, interventions involving the supply and/or installation of home safety equipment, and/or home risk assessments aimed at reducing unintentional injury to children in the home?’ This review was conducted as part of a suite of reviews commissioned by the CPHE at the UK’s National Institute for Health and Clinical Excellence (NICE) to inform policy-making processes around preventing unintentional injury to children in the home. The effectiveness evidence was also reviewed,9 and showed a mixed picture regarding the effectiveness of interventions involving home safety education and the provision of free or discounted home safety equipment. The aim of this systematic review is to examine relevant qualitative research to illuminate these mixed findings by investigating possible factors that may facilitate or hinder the success of such interventions in particular, we looked at studies on interventions aimed at reducing unintentional injury to children in the home, as well as studies that explored parents’ and health practitioners’ attitudes to, and behaviour about, child safety in the home.

METHODS
This study systematically identified, critically appraised, summarised and synthesised qualitative evidence relating to contextual or other factors that may enhance or reduce the effectiveness of interventions aimed at preventing unintentional injury to children in the home through the supply and/or installation of home safety equipment and/or home
risk assessments, or which help or hinder their implementation. Our meta-analysis is based on meta-ethnography, an increasingly recognised method for synthesising qualitative research initiated by Noblit and Hare and developed by others. It involves several stages, including a systematic search for all relevant articles, and a rigorous process of data extraction to identify and draw similarities and differences between the key concepts from each article. As most papers in this synthesis provide a thematic analysis, as most papers included were mainly descriptive rather than explanatory or theoretical, the synthesis provides a thematic analysis of published qualitative research on this topic, rather than generating new theories.

**Study identification and appraisal**

The review used published evidence identified through searches in a series of 16 electronic bibliographic databases and websites (details in box 1) using subject terms and qualitative research filters, together with reference checklists. A search strategy using text words and thesaurus headings relating to home safety devices, type of programme, and home risk assessments was used in a range of databases. Filters for publication year (from 1990 to date of search) and English language were applied. Websites and the citations of included studies were also searched. The full search strategy, which was also designed to locate studies for inclusion in a parallel effectiveness and cost-effectiveness review, is shown in online supplementary file 1; exclusion criteria are shown in online supplementary file 2. Two reviewers (RG, MP) shared screening the titles and abstracts, and full text screening, using predefined criteria (search strategy flowchart shown in figure 1). When papers seemed likely to be eligible, full texts were obtained. These were assessed for inclusion independently by two reviewers (RG, MP), and disagreements were resolved by discussion. Papers were included if they reported in English on qualitative research focusing on interventions to reduce unintentional injury to children in the home, and/or on attitudes and behaviours relating to this.

Each included study was quality appraised by two researchers (JS, RG) using the criteria in Methods for the Development of NICE Public Health Guidance. A quality appraisal sheet for each paper consisted of 10 sensitising questions about the aims, theoretical perspective, sampling, analysis and reflexivity (summary table in online supplementary file 3). Rather than weighting the answers to these questions, each study was also given an overarching quality grade of ‘+’, ‘+’ or ‘–’. Studies were appraised less favourably where there were no, or few, direct quotes from the participants, making validity difficult to assess, or where there was little evidence of theoretical or conceptual development by the study authors. However, in line with other qualitative syntheses, we did not use the scores as a criterion for exclusion. There is little consensus among qualitative researchers about how to measure quality in qualitative research. Moreover, experience from previous synthesis studies suggests that poor quality papers with a few findings but little original analysis provide confirmatory evidence in support of the better articles.

**Included studies**

Each included article was read by two researchers (RG, JS). One researcher (JS) extracted information about the population included, the type of intervention or programme, the research methods, findings and study limitations. The findings—themes, concepts and supporting quotations—were extracted, and details recorded in a structured evidence table for each study. These were read and discussed by two reviewers (RG, JS). Evidence tables for each included study were used to develop a conceptual framework for understanding the themes in relation to each other. This provided a way of assessing factors that might help or hinder interventions to reduce unintentional injury to children in the home.

**Data analysis and synthesis**

Once the findings from each included study had been extracted, they were read and reread by two reviewers (RG, JS). JS led the analysis, with regular discussion and collaboration at all stages with RG.

Three of the papers organised findings around a framework of barriers and facilitators to unintentional injury prevention, and this was used as the initial organising framework for the synthesis. JS developed a coding framework which grouped main themes emerging from the papers according to the level at which they operate as a barrier or facilitator: (i) external (legal, policy or organisational); (ii) physical or environmental; (iii) individual. Sub-themes within these broad areas were identified.

Second-order concepts are the interpretations or explanations of the findings made by the researcher(s). First-order concepts

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**Box 1 Databases searched**

<table>
<thead>
<tr>
<th>Database</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Medline</td>
</tr>
<tr>
<td>2. PsycINFO</td>
</tr>
<tr>
<td>3. ISI Web of Knowledge Social Science Citation Index (SSCI)</td>
</tr>
<tr>
<td>4. Science Citation Index Expanded (SCI-EXPANDED)</td>
</tr>
<tr>
<td>5. Health Management Information Consortium (HMIC)</td>
</tr>
<tr>
<td>6. CINAHL</td>
</tr>
<tr>
<td>7. Applied Social Science Index and Abstracts (ASSIA)</td>
</tr>
<tr>
<td>8. The Cochrane Library database of systematic reviews</td>
</tr>
<tr>
<td>9. EconLit</td>
</tr>
<tr>
<td>10. SafetyLit</td>
</tr>
<tr>
<td>11. EPPICentre</td>
</tr>
<tr>
<td>12. TroPHI</td>
</tr>
<tr>
<td>13. DoPHER</td>
</tr>
<tr>
<td>14. Bibliomap</td>
</tr>
<tr>
<td>15. Centre for Reviews and Dissemination databases</td>
</tr>
<tr>
<td>16. Database of Abstracts of Reviews of Effects (DARE)</td>
</tr>
</tbody>
</table>

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**Figure 1 Review flowchart.**

- 5660 total study reports identified
  - 5529 bibliographic database searches
  - 93 targeted database searches
  - 10 reference list searches
  - 27 website searches
  - tagged from a previous review

- 184 full text study reports ordered
- 154 reports excluded following screening of full text: 3 papers unobtainable
- 37 full text study reports used in project
  - 26 in effectiveness review
  - 4 in costs effectiveness review
  - 9 in review of qualitative research

- 9 included study reports

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are the direct expressions of the participants, which show how they interpret their experiences. Themes/codes and their allocation were developed through discussion and further refined during the writing up of the synthesis. Themes not introduced by participants or authors, but which draw on analysis by the reviewers, are noted as reviewer interpretations (third-order concepts).

RESULTS
Study details
Nine peer-reviewed journal articles were included in the review. Methodological details of the studies included can be seen in table 1. Details of the included studies’ main research questions and samples can be seen in figure 2. Four described studies were based in the USA, three were from the UK, one was from Australia and one was from Canada. The methodological quality of the study reports was mixed—four were rated as poor, four as adequate, one as good. However, some of the weaker papers, in methodological terms, were more practice-based, focusing on evaluation of interventions, so their findings were in some ways more directly relevant to this synthesis topic.

Barriers and facilitators framework
Three papers explicitly organised their research themes around barriers and facilitators. This was used as an organising framework to synthesise the findings of the nine included studies; the categories within these were determined by our data analysis. Where possible, findings from several studies were used to build a picture of the main issues in terms of barriers and facilitators to the success of projects and interventions that aim to reduce injury in the home. Themes were developed and refined through discussion. The key findings from the nine studies included in this review are outlined in table 2, and synthesised in figure 3.

Table 1 Methodological details of included studies

<table>
<thead>
<tr>
<th>Author</th>
<th>Location</th>
<th>Aim</th>
<th>Theoretical approach</th>
<th>Sample/population</th>
<th>Sample size</th>
<th>Study design</th>
<th>Analytical process</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bennett Murphy (2001)</td>
<td>USA</td>
<td>To identify to what extent adolescent mothers viewed injury prevention as an essential role of parenting.</td>
<td>Unspecified</td>
<td>Adolescent mothers. Many African-American</td>
<td>17</td>
<td>Focus group</td>
<td>Thematic analysis (RD)*</td>
</tr>
<tr>
<td>Brannen (1992)</td>
<td>USA</td>
<td>What factors influence use of poison-prevention measures and poison control centre resources in a black, low income, inner-city community?</td>
<td>Health belief model</td>
<td>Mothers in black, low income, inner-city community</td>
<td>32</td>
<td>Interviews</td>
<td>Thematic analysis (RD)</td>
</tr>
<tr>
<td>Brussoni et al (2006)</td>
<td>UK</td>
<td>To bring together scientific evidence of what works in injury prevention, using case study of smoke alarm installation in England</td>
<td>Kelly et al’s multistep process†</td>
<td>Health practitioners</td>
<td>98</td>
<td>Focus groups/interviews</td>
<td>Thematic analysis (RD)</td>
</tr>
<tr>
<td>Carr (2005)</td>
<td>UK</td>
<td>Evaluation of an innovative approach to tackling child injury prevention in the home</td>
<td>Unspecified</td>
<td>Low income mothers in multi-ethnic community</td>
<td>3</td>
<td>Focus groups/interviews</td>
<td>Thematic analysis</td>
</tr>
<tr>
<td>Gibbs et al (2005)</td>
<td>Australia</td>
<td>To develop an understanding of factors acting as barriers and motivators to parental uptake of child poison safety strategies</td>
<td>Grounded theory</td>
<td>Parents of young children</td>
<td>65</td>
<td>Focus groups/interviews</td>
<td>Thematic analysis</td>
</tr>
<tr>
<td>Hendrickson (2008)</td>
<td>USA</td>
<td>To explore the worries, safety behaviours, and perceived difficulties in keeping children safe at home in a purposive sample of low income mostly non-English-speaking mothers as a foundation for nursing interventions</td>
<td>Health belief model</td>
<td>Low income mothers, many Hispanic</td>
<td>82</td>
<td>Interviews</td>
<td>Qualitative Content analysis</td>
</tr>
<tr>
<td>Mull et al (2001)</td>
<td>USA</td>
<td>Why is serious paediatric injury higher among Hispanics than non-Hispanic whites in the USA?</td>
<td>Focused ethnography</td>
<td>Low income mothers, many Hispanic</td>
<td>110</td>
<td>Interviews/home observation</td>
<td>Thematic analysis</td>
</tr>
<tr>
<td>Olsen et al (2008)</td>
<td>Canada</td>
<td>To explore the child safety practices of mothers living in low income situations</td>
<td>Ethnography</td>
<td>Low income mothers</td>
<td>17</td>
<td>Interviews/home observation</td>
<td>Thematic analysis (RD)</td>
</tr>
<tr>
<td>Roberts et al (2004)</td>
<td>UK</td>
<td>To explore barriers and levers to the use of a specific public health intervention: installing smoke alarms</td>
<td>Unspecified</td>
<td>Parents in trial smoke alarm area</td>
<td>58</td>
<td>Focus groups/interviews</td>
<td>Thematic analysis (RD)</td>
</tr>
</tbody>
</table>

*Rd, researcher-defined, not specified in paper.
†This process is not widely known; the paper refers to a webpage that no longer exists.
Provision and timing of information

Poor communication with households was another barrier identified in the synthesis. Three studies found that parents felt there was a lack of information or knowledge about existing policies or supports.\textsuperscript{18, 19, 21} Timing of information was shown to be important. Brannen\textsuperscript{18} found that parents given information in hospital at the time of a child’s birth did not retain this, while information provided subsequently in a community or physician setting was better retained. Two studies\textsuperscript{21, 22} noted the importance of devising information and advice in ways (style, language, examples) that suit target communities, in these cases low income and ethnic minority populations.

Limitations on effectiveness due to living in rented or overcrowded living conditions

All nine papers in the synthesis found barriers due to socioeconomic circumstances (specifically, poverty, youth, immigrant status). Eight studies found that a major barrier to implementing safety equipment and childproofing a home was not living in a home one was free to modify because of living in rented accommodation and/or with extended family.\textsuperscript{17, 25}

‘I am exhausted from telling the older children not to play near the pool where the baby will want to join them (a pool which could not be drained), not to flip on the kitchen lights (sparking electrical system)’. (Mother of four).\textsuperscript{20}

Table 2 Main themes emerging in synthesis of nine articles on barriers to, and facilitators of, prevention of unintentional injury to children in the home

<table>
<thead>
<tr>
<th>Level</th>
<th>Type of barrier</th>
<th>Main barriers identified</th>
<th>Main facilitators identified</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. External: legal, policy or organisational</td>
<td>Legal/policy/health services</td>
<td>Weak legislation. Absence of policy drivers influencing resources</td>
<td>Policy drivers and legislation. Multi-agency partnerships, linking with other health messages or initiatives</td>
</tr>
<tr>
<td></td>
<td>Information and communication with households</td>
<td>Lack of appropriate information to parents/households about legislation and policies</td>
<td>Good communication between organisations and target audiences. Involving local people (eg, mothers) to be trained in health initiatives. Targeting of population (eg, schoolchildren) to share information</td>
</tr>
<tr>
<td></td>
<td>Socioeconomic circumstances</td>
<td>Disempowering effects of living in rented or overcrowded living conditions</td>
<td></td>
</tr>
<tr>
<td>2. Physical or environmental</td>
<td>Housing</td>
<td>Practical barriers due to poor quality (often rented) housing</td>
<td>Stable and child-friendly accommodation. Control/ownership of home environment</td>
</tr>
<tr>
<td></td>
<td>Equipment and maintenance</td>
<td>Lack of maintenance of smoke alarms</td>
<td>Landlords’ attention to safety issues. Provision of appropriate and durable equipment. Maintenance of and confidence in other safety devices</td>
</tr>
<tr>
<td></td>
<td>Training</td>
<td>Cost of installing safety devices. Costs of accessing treatment</td>
<td>Training in installation and equipment use/replacement</td>
</tr>
<tr>
<td></td>
<td>Cost</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Individual</td>
<td>Understanding of risk</td>
<td>Lack of awareness of risk. Fatalism about nature of injuries</td>
<td>Awareness of risk</td>
</tr>
<tr>
<td></td>
<td>Mothers’ safeguarding work</td>
<td>Cultural differences in experiences and expectations. Cultural practices in different cultural context. Language barriers</td>
<td>Mothers’ work in safeguarding children. Mothers’ commitment to vigilance. Teaching children about safety</td>
</tr>
<tr>
<td></td>
<td>Cultural background</td>
<td>Relationship with partner. Mistrust of officials. Fear of being accused of abuse or neglect. Not trusting neighbours/non-family to look after child</td>
<td>Culturally sensitive information and advice systems</td>
</tr>
<tr>
<td></td>
<td>Social/relational</td>
<td></td>
<td>Social connectedness rather than isolation. Building trust in officials via peer education</td>
</tr>
</tbody>
</table>
Figure 3 Synthesis model: What facilitates an intervention to prevent injuries to children in the home?

Physical and environmental barriers and facilitators
This middle level of the conceptual framework deals with themes emerging in the studies that were still outside the individual’s control but were an outcome of their environment or circumstances.

Provision of appropriate and durable equipment
Four studies found that faulty equipment was a barrier to interventions.19 21 23 24 For example, mothers taped over electric sockets when safety plugs did not work.

‘Them socket protectors don’t work. My son takes ‘em out and then sticks his finger in.’

Facilitators recommended in these studies included tamper-proof smoke alarms with longer lasting batteries, help for fitting alarms, or simpler systems, more systematic provision of childresistant containers, and training in installation, equipment use and replacement, all of which reduced the incidence of unintentional injury to children in the home.

Weighing up of risks against inconvenience
Suspicion of strangers coming into their homes to assess or install property, and of ‘free’ offers, needs to be mitigated in successful interventions.25 The two studies on smoke alarm installation21 23 both found that people balance immediate and longer-term risks to health and well-being when they disable alarms, weighing the safety aspect against the inconvenience and stress of malfunctioning alarms.

‘So I grabbed a broom and I thought, I’ve got to hit that thing up there. So I started banging it with the broom, and it broke and smashed around me… and that was the end of the smoke alarm.’

(Mother)

Actual and perceived cost of safety equipment
Cost emerged as a theme in five of the studies, always as a barrier to reducing unintentional injury to children in the home, or of obtaining help if a child had had an injury.17–19 23 25 Three studies found that the perceived cost of installing safety devices or making repairs was a major barrier in the correct use of smoke alarms25 and in general for safety equipment.19 25

Individual barriers and facilitators
Difficulties experienced by young or poorly educated parents in understanding child development
The barriers and facilitators due to individual factors are often linked to experience and upbringing. Four studies17 19 20 24 found that young or poorly educated mothers found it hard to anticipate the child’s rate of development in terms of ability to climb, open containers or locks, light fires. Parents overestimated children’s ability to remember instructions and underestimated rapid developmental changes.

‘Ben’s 8 months so he’s not into any of that stuff. I don’t think to move anything until he’s been in it.’ (Mother of 3-year-old and 8-month-old)

Fatalism about the nature of injuries
Bennett Murphy19 found that young mothers found it hard to deal with issues of blame—in a focus group the mothers debated between ideas of the ‘accident-prone child’ who would injure themselves whatever you did (‘Some kids are accident prone’),
and the ‘negligent adult’ who was responsible for their child’s injuries (‘People are too lazy to watch their kids’). Young mothers oscillated between the two concepts, unsure whether injuries were due to children or adults, but tending to think that there was little to be done to prevent them. Moreover, many young mothers saw unintentional injury and maltreatment as related, and found it difficult to view unintentional injury as separate from neglect or abuse.

Mistrust of officials, especially regarding accusations of neglect or abuse

Five studies on low income, adolescent and/or immigrant mothers found that mothers worried that asking about injury prevention or taking an unintentionally hurt child to hospital would result in accusations of abuse or neglect.17–20 25

‘It seems like other people basically don’t see that teenaged moms are well enough to take care of our child. Because they see a bruise or a bump or whatever, they think we’re just not taking care of them right’19

Mothers’ safeguarding work

The variety of safeguarding work that mothers put into preventing unintentional injury in the home—commonsense safeguarding, constant vigilance, and teaching children about safety—was a theme in five papers.17–20 25 Mothers routinely took their safety efforts for granted—‘common sense’.

‘Not leaving things hanging… handles on your stove, making sure they’re in. Just little things…. There’s things that you automatically do.’25

Four studies had as a major theme mothers’ commitment to constant vigilance and sacrifices to achieve this.

‘No, nothing is difficult because I don’t do anything but run behind her and when I take her outside I go with her.’20

Two studies20 25 noted mothers’ tensions between teaching children about limiting injuries and removing threats to safety. Three studies noted immigrant mothers’ isolation and lack of family to help with childcare.17 20 25

‘I have no family here to help with the children. In this country they will take your children away if you leave them alone. I never do it but other women in the trailer park do.’20

These studies noted practices that were seen as adequate safety measures in the parents’ country of origin, but were risky in a new cultural context. Authors noted lack of experience of the particular risks of a host context, and lack of understanding by health officials about different child safety norms and expectations in immigrants’ cultures. For example, Mexican-born mothers in a US study often kept their children inside, believing women would be criticised for spending time outside supervising children rather than doing housework and cooking for the family.17

DISCUSSION

Principal findings

The synthesis found barriers and facilitators to the success of interventions to reduce child injuries in the home at organisational, physical and individual levels. Figure 3 provides a summary of the main barriers and facilitators, at each of these three levels, to the success of projects and interventions that aim to reduce injury in the home.

At the organisational level, the study demonstrates that effective provision of safety equipment includes support with installation, ongoing support for usage, maintenance of equipment, and safety checks. At the physical or environmental level, the difficulties for parents living in rented or extended family accommodation, with limited possibilities for modifying their environment, were a major barrier to successful uptake of home safety interventions.

At the individual level, health inequalities stemming from parents’ cultural and socioeconomic background, age and experience affected take up or longer-term success of interventions in a variety of ways. Cultural background, especially for immigrant parents with experience of different parenting contexts, led to conflicting understanding of child safety between parents and health workers. A particular tension was noted between the belief that a good parent constantly monitors, or implements physical boundaries, and the belief that a good parent teaches children appropriate behaviour. There is a strong socioeconomic aspect to this—containing a baby in a playpen is less acceptable than containing a child in a private, secure garden. This review highlights how possibilities for appropriate actions depend on factors such as owning one’s own home, not being overcrowded, or access to safe outdoor space.

The synthesis thus draws attention to ways in which policy needs to consider health inequalities in the design and implementation of interventions to reduce unintentional injuries to children in the home.

Strengths and weaknesses of the study

Review limitations

A study reviewing published research is necessarily determined by the articles published, in topic range and in scope of analysis. Areas not covered by the articles published include suffocation, burn and scald prevention. Fathers were rarely included in the research in these articles. Most papers reviewed had little description of the theoretical approach. Several were stronger on practitioner relevance than on theory. Analysis sections were mostly short, with themes stated but not always evidenced by relevant first-order quotations. Space restrictions in journals limit the extent to which evaluations of public health programmes can include rigorous data about the contextual factors that affect a programme’s effectiveness, but such data are crucial for informing recommendations about effective programmes.27

As mentioned above, it is standard practice in synthesis studies12 15 16 not to exclude papers on appraised quality. Recent debates on quality of evidence in public health suggest that syntheses focus on ‘maximising the conceptual yield of included papers’16—lower quality papers, with poorly developed concepts and less theorising may support concepts and theories developed in the stronger papers. In this study the key concepts were based on the ‘stronger’ studies, but papers rated as methodologically weaker (often based on practitioner viewpoints or a particular intervention) added to the overall picture.

Review strengths

A qualitative synthesis is an efficient summary of the strengths and limitations of a particular research area, and provides directions for further research. The synthesis included general attitudes, experiences and behaviours, as well as specific barriers and facilitators, which together provide a robust framework of barriers to, and facilitators of, home safety interventions. This method provides a systematic way of accumulating consistent evidence on the current state of knowledge from
published qualitative research on child injury prevention in the home.  

Implications for health professionals and policy makers

The synthesis highlighted cultural differences (in particular, national culture and ethnic group differences) in definitions of risk, leading to health and social professionals’ perceptions of risky behaviour by immigrant parents. Health practitioners devising and carrying out interventions need to distinguish between different notions of risk and lack of awareness of risk in a new context. Interventions need to provide realistic ways for parents to keep children safe—for example, in poor quality accommodation with limited outdoor space, without necessarily curtailing children’s freedom to play and develop.

Information providers need to recognise the reasons people fail to comply. Notable here is the intrusive nature of malfunctioning smoke alarms: residents weighed up the safety of having an alarm against the noise and stress of it going off too often. Mistrust of officials and interventions in some communities is a barrier to effective implementation in a variety of ways—including a suspicion of free equipment.

Greater generic advice and support on child development might facilitate the prevention of injury in the home for mothers struggling with notions of blame, accident-proneness and negligence. Other studies have suggested that people living in deprived communities may be passive about uptake and involvement in safety interventions. The findings of this synthesis suggest that, in contrast, mothers in deprived communities may be passive about uptake and involvement in safety interventions. The challenge for intervention providers is how to harness the safeguarding efforts of mothers in the most appropriate and realistic ways. This review highlights the complexity of injury prevention and the need to consider multi-level interventions to increase chances of success, particularly for vulnerable populations.

Future research

Synthesis studies are particularly useful in identifying further research needs. Future studies could consider how to tie interventions in with parental efforts to keep children safe, rather than viewing participants in deprived communities as passive in terms of safety interventions. While most studies reviewed here, and hence the emerging themes in this paper, focused on mothers, the role of fathers in safeguarding work should be included.

Further research could explore ways of addressing the complex reasons why targeted participants, often in deprived socio-economic areas and often including immigrant or ethnic minority populations, might not take up available safety interventions, including misunderstanding of cultural expectations from health professionals and mistrust of officialdom and neighbours.

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Competing interests

None.

Contributors

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REFERENCES


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New poisons helpline launched in Dublin

The National Poisons Information Centre at Dublin’s Beaumont Hospital has launched a new telephone service to advise the public, and parents in particular, on how to deal with accidents involving poisons. Previously, advice was only given to professionals.

Ed note: This helpline appears to replicate a service that has been in place in North America and parts of Europe for decades, but, clearly, better late than never.

Collected and edited by Barry Pless