Maternal perceptions of supervision in preschool-aged children: a qualitative approach to understanding differences between families living in affluent and disadvantaged areas

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Aim: To explore maternal perceptions of supervision and childhood unintentional injury in order to develop understanding and explanation for differences in unintentional injury rates between an advantaged and disadvantaged area. Background: Unintentional injury is the second cause of mortality and a significant cause of morbidity in the zero to four year age group. Children living in socio-economic disadvantage are at a greater risk of unintentional injury than their more affluent counter-parts. Methods: Qualitative study using semi-structured interviews; content data analysis was undertaken. Participants included 37 mothers with a child aged less than five years; 16 living in an area of disadvantage (and high rate of childhood unintentional injury) and 21 living in an advantaged area (and low rate of childhood unintentional injury). Findings: Parents in both areas described the importance of parental supervision in reducing child unintentional injury risks. Parents in both areas used listening as a supervision strategy. Parents in both areas described how ‘when the child goes quiet’ that is a cue for them to make a visual check on the child. Listening was used more for boys than girls in both areas, but parents in the advantaged area used listening as a supervision strategy more frequently than those in the disadvantaged area. Parents described supervision strategies as being shaped by child character and age rather than child gender. Parents in both areas described similar strategies for managing distractions. An important difference was found with regard to older siblings; parents living in the advantaged area described older siblings as an injury risk to younger children. Parents in the disadvantaged area described older siblings as providing some supervision for younger children. Parents living in disadvantaged circumstances may face greater challenges with regard to supervision than parents living in advantaged circumstances and this may partly explain differences in injury risk.

Key words: childhood unintentional injury; injury prevention; parental perceptions; parental supervision; qualitative study

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Introduction

Unintentional injury is the second leading cause of mortality and a significant cause of morbidity within the zero to four year age group (ONS, 2011). In this age group unintentional injuries are most likely to occur at home as this is where children often spend most of their time (Department of Health, 2002). Injuries place a considerable burden on the National Health Service; each year unintentional injury results in approximately two million children attending emergency departments.
in the United Kingdom and half of these injuries occurred at home (ACAHC, 2007).

Childhood unintentional injury is unevenly distributed across society. There are wide inequalities between social groups in relation to child mortality and morbidity (Towner, 2002). Children living in circumstances of socio-economic disadvantage are more likely to experience unintentional injury than their more affluent counter-parts. The social gradient for deaths relating to unintentional injury is greater than for any other cause of death (Edwards and Roberts, 2006). Boys are more likely to suffer an unintentional injury than girls (Towner and Dowswell, 2001).

Parental supervision is an important factor in reducing the risk of unintentional injuries sustained at home (Schwebel and Bounds, 2003; Morrongiello and Ondejko, 2004; Morrongiello and Corbett, 2006). Parental perceptions that supervision will reduce the risk of unintentional injury are important (Sparks and Craven, 1994; Garling and Garling, 1995).

One of the difficulties related to parental supervision is that there is not one universal definition agreed by parents, practitioners and researchers (Morrongiello, 2005). Morrongiello defines supervision as ‘behaviours that index attention (watching and listening) in interaction with those that reflect state of readiness to intervene with both types of behaviour judged over the index of continuity and proximity’ (Morrongiello, 2005). This definition combines parent behaviour of watching and listening with knowledge of child whereabouts and activity, combined with parental readiness to intervene to prevent a child undertaking an unsafe activity. This, Morrongiello argues, results in maximal supervision (Morrongiello, 2005). In situations where the child is out of reach of the parent, the next optimal supervision strategy is verbal direction to intervene to prevent the child undertaking an unsafe activity. This, Morrongiello argues, is a lower level of supervision (Morrongiello, 2005). Other factors that may be important to consider are the age of the child, the character of the child, and the living conditions of the home environment.

An extension of the definition by Morrongiello (Morrongiello, 2005) is to consider three attributes of supervision; parents attention to their child’s behaviour, the proximity of the parent to their child and continuity of supervision (Schwebel and Kendrick, 2009). Attention encompasses watching and listening to the child’s activity and behaviour and is a spectrum from full undisturbed attention to totally absent attention. Proximity refers to parents’ proximity to the child. Continuity of supervision is a spectrum from constant uninterrupted visual and listening to intermittent visual and listening to the child. The difficulties lie in how to describe and measure each attribute for research purposes (Schwebel and Kendrick, 2009).

A parent’s ability to provide direct and constant supervision may be impaired by a number of factors including the requirement to complete household tasks (Roberts and Smith, 1995; Boles and Roberts, 2008). There is some evidence to suggest that boys and girls may receive differential supervision from parents (Morrongiello and Hogg, 2004). The presence of an older sibling may also increase the risk of injury to a younger child. This may be impaired parental supervision, due to the number of children in the household, or because an older child provides some supervision to a younger sibling (Nathens and Neff, 2000; Morrongiello and MacIsaac, 2007).

There has been little exploration with regard to parental supervision and living in circumstances of disadvantage, however this may provide some potential explanation for differential injury rates. The aim of this qualitative study was to gain an understanding of maternal perceptions of supervision and to explore possible differences in supervision between families living in an advantaged and disadvantaged area.

The two areas included in this study are St Ann’s Ward and Wollaton West Ward in Nottingham, United Kingdom. St Ann’s Ward is one of the most deprived wards within Nottingham city, with a high level of transience and an area where significant social problems exist. Social problems within the ward include a high number of people living on low incomes, poor quality housing, unemployment and high rates of crime. St Ann’s has high levels of poor health, a lower life expectancy and higher injury rates than other wards in Nottingham and much higher than the national average (Nottingham Primary Care Trust Annual Health Report 2003–2004). By comparison Wollaton West Ward has a low level of transience and mainly consists of people working in professional employment, good quality privately owned homes, and a low rate of child injury.

Methods

Recruitment

The first stage involved inviting health visitors to assist with the recruitment of parents in each of the wards. Three health visitors, in each ward, were asked to send a participant recruitment pack to 50 parents. To ensure that cases were selected systematically, health visitors were asked to select every other child from their caseload within a specified age group. In each ward one health visitor selected 50 cases where the child was aged 0–11 months, the second health visitor selected 50 children aged 12–23 months and the third selected 50 children aged 24–48 months. In the instance where a health visitor had a total of 50 children in their specified age bracket they were asked to select all of these households. Parents who were interested in taking part where asked to return a reply slip with their contact details in a pre-paid envelope to the researcher. The researcher then contacted them by telephone, explained the purpose of the study in greater detail and answered any questions about participation in the study. If they agreed to take part in the study a date and time was arranged for the researcher to visit them at their home in order to carry out the interview. The aim was to recruit 21 parents in each ward, seven with a child aged 0–11 months, seven with a child aged 12–23 months and seven with a child aged 24–48 months. In order to complete the St Ann’s sampling frame additional recruitment took place via a mother and toddler group and via a children’s centre in St Ann’s.

Data collection

Data collection included in-home interviews that lasted on average ~40 min. One interview took place at the St Ann’s Sure Start Centre, Nottingham, at the request of the participant. All interviews were conducted with the mother; fathers were present in two of the interviews. Interviews were conducted between January and April 2008.

A semi-structured interview schedule was developed, piloted with two families and adapted accordingly. The interview guide included questions covering; perceptions of injury risks within the home and how they try to prevent them, who is mainly responsible for looking after the children, do they have any older children and do they help with looking after younger children, daily routines and supervision practices, how they manage supervision when they are tired, how they manage supervision when they feel they need a break. The interview guide was developed following a literature review (Sparks and Craven, 1994; Garling and Garling, 1995; Roberts and Smith, 1995; Nathens and Neff, 2000; Morrongiello and Ondejko, 2004; Morrongiello and Corbett, 2006; Morrongiello and MacIsaac, 2007).

Interviews were audio taped, with written and signed consent, and transcribed. During transcription names were changed to protect anonymity.

Data analysis

The interview data was transcribed verbatim. The data were explored for emerging themes and re-read drawing out themes and sub themes (Silverman, 2000). The coding process of the interviews included both confirming and disconfirming cases (Murphy and Dingwall, 1998). Three researchers read the transcripts noting significant themes. Following this the researchers discussed the main emerging themes and sub themes and developed coding categories. A definition for the themes was then agreed. These themes were used to code the data using the computer software package Nvivo version 1. As the data were analysed any emerging themes were applied to previously coded data. When all data had been coded, themes were counted in order to identify patterns within the data.

Findings

Response rates and participant characteristics

In Wollaton West 33 (22%) responses were received from the first mailing of 150 recruitment packs. From the 33 responses received, 21 parents were randomly selected to take part in the study. In St Ann’s 13 (8%) responses were received from a first and reminder mailing of 150 recruitment packs and 10 parents agreed to be interviewed. Recruitment via a mother and toddler group and at the Sure Start Children’s Centre resulted in seven parents agreeing to be interviewed, one of whom withdrew before the interview took place. The total number of interviews undertaken was 21 in Wollaton West and 16 in St Ann’s.
When 16 parents had been recruited in St Ann’s the decision was taken to cease recruitment due to data saturation and resource and time constraints. The characteristics of participants in the two areas are shown in Table 1. As the interviews were conducted in the homes of participants it was possible for the interviewer to observe the difference between the two areas in relation to living environments. As shown in Table 1, the majority of St Ann’s parents were living in council or privately rented accommodation. These homes were of poor quality and in greater need of repair. By contrast, Wollaton West parents were all living in privately owned homes that were well maintained. As shown in Table 1, the maternal age of mothers living St Ann’s was much lower than for mothers in Wollaton West.

### Table 1  Participant characteristics

<table>
<thead>
<tr>
<th></th>
<th>St Ann’s</th>
<th>Wollaton West</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maternal age</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Late teens</td>
<td>2 (21%)</td>
<td>–</td>
</tr>
<tr>
<td>20s</td>
<td>12 (75%)</td>
<td>–</td>
</tr>
<tr>
<td>30s</td>
<td>2 (12%)</td>
<td>18 (81%)</td>
</tr>
<tr>
<td>40s</td>
<td>–</td>
<td>4 (19%)</td>
</tr>
<tr>
<td>Marital status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lone parent</td>
<td>10 (63%)</td>
<td>1 (4%)</td>
</tr>
<tr>
<td>Married</td>
<td>6 (37%)</td>
<td>20 (96%)</td>
</tr>
<tr>
<td>Housing tenure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Council rented</td>
<td>13 (81%)</td>
<td>–</td>
</tr>
<tr>
<td>Private rented</td>
<td>1 (6%)</td>
<td>–</td>
</tr>
<tr>
<td>Private owned</td>
<td>2 (12%)</td>
<td>21 (100%)</td>
</tr>
<tr>
<td>Employment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Household does not have a parent in paid employment</td>
<td>16 (100%)</td>
<td>–</td>
</tr>
<tr>
<td>Household has at least one parent in paid employment</td>
<td>–</td>
<td>21 (100%)</td>
</tr>
<tr>
<td>Household has two parents in paid employment</td>
<td>–</td>
<td>16 (76%)</td>
</tr>
<tr>
<td>Injuries disclosed during interview</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minor trips/falls</td>
<td>1 girl</td>
<td>15 (8 boys, 7 girls)</td>
</tr>
<tr>
<td>Fall downstairs</td>
<td>4 (2 girls, 2 boys)</td>
<td>–</td>
</tr>
<tr>
<td>Fall from furniture</td>
<td>2 boys</td>
<td>–</td>
</tr>
<tr>
<td>Scald</td>
<td>2 (1 boy, 1 girl)</td>
<td>–</td>
</tr>
<tr>
<td>Minor burn</td>
<td>1 boy</td>
<td>2 (1 boy, 1 girl)</td>
</tr>
<tr>
<td>Poisoning due to household chemical</td>
<td>1 boy</td>
<td>–</td>
</tr>
<tr>
<td>Poisoning due to medication</td>
<td>1 girl</td>
<td>–</td>
</tr>
</tbody>
</table>

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**Key themes**

Five key themes emerged from the data: perceptions of supervision and injury risk, listening as a supervision strategy, supervision practices shaped by child character, supervision strategies when multi-tasking, older children and injury risk to younger siblings.

**Perceptions of supervision and injury risk**

Parents living in both areas [10 (62.5%) parents in St Ann’s and 17 (80.9%) in Wollaton West described how a lack of supervision is likely to increase the potential for injury risk. Parents living in both areas described a need to be constantly vigilant and aware of where the child is and what the child is doing. Parents living in both areas held similar perceptions about the consequences of not supervising adequately being an injury risk to their child.

*I think you have to keep an eye on the kid. If you are not keeping an eye on the kid and the kid is upstairs and you are downstairs then definitely you have to expect something happening.* (SA8 Girl 12–23 months)

**Listening as a supervision strategy**

Parents in both areas described using listening as a supervision strategy. Parents living in both areas described how if their child goes quiet and the child is not in their vision that is a signal that something is wrong and that is the cue that they use to then go and check on their child. Listening was...
Supervision practices shaped by child character

When describing supervision practices and how these may vary, parents living in both areas described how it was the character of the child that impacts on injury risk taking behaviour and this, in turn, shapes their supervision strategies.

I think it’s just when the child you’ve got is very inquisitive and into everything whereas our first child wasn’t like that. So a different child you know it’s different dangers and things. (SA16 Boy 12–23 months)

It depends on the individual child. Because I know in the past when I’ve looked after other people’s children if I said you mustn’t touch that because it’s hot and you’ll burn yourself, I know that my daughter would heed that advice but there are some children that wouldn’t heed that advice at all and would still go and touch it. (W19 Girl 12–23 months)

Supervision strategies when multi-tasking

Parents living in both areas described similar tasks that impaired their ability to supervise their child. Parents often described cooking/preparing a meal and getting ready in the morning as times when their supervision was most impaired. Parents living in both areas also implemented similar strategies to try to minimise injury risks when their ability to supervise is impaired. Examples included putting on the television while they cook, moving between rooms, placing the child in a safe place or having the child assist with the task.

That probably is when you let your guard slip when you think I just need to do this I’m just gonna nip upstairs or nip outside to peg the washing out. And you do and that’s when you forget how young and vulnerable they are. (W9 Girl 0–11 months, Boy 24–48 months)

Older children and injury risk to younger siblings

There are important differences in the way parents’ living in the two areas described older children and injury risk to a younger child. None of the parents living in St Ann’s described older children as posing an injury risk to a younger child, whereas parents in Wollaton West did consider older children in this way. This may be through rough play or leaving small pieces from toys in the vicinity of the younger child that present a choking hazard. There are examples from the interviews of parents living in Wollaton West Ward describing near miss incidents where older children have resulted in injury risk to the younger child not when they were supervising but when both children were left in the same room and the mother was not present.

Of course you also have the additional accident factor of older child. I did come in once and said what have you done and she’d buried him in the blankets [...] We came in and there was this blanket and we were like where is [boys name] and he was under the blanket and he was only about 5 months old. He was getting quite hot under there that was a bit scary wasn’t it. (W5 Girl 24–48 months, Boy 12–23 months)

Parents in St Ann’s who were parenting alone, describe how older children can provide some level of supervision to the younger child. Married couples living in St Ann’s did not describe older siblings as
providing supervision to the younger child. In contrast there are no examples in Wollaton West of parents describing older siblings as supervisors of younger siblings (there was only one mother who was parenting alone in Wollaton West).

I do have a bit of a lie in my bed. Cos I’ve got my older one (age 6) he will come downstairs with the younger one and they’ll probably just watch cartoons. (SA4 Boy 24–48 months)

Discussion

There has been little research undertaken that has explored the attitudes, perceptions and experiences of parents using a qualitative methodology. In particular, few qualitative studies have explored such differences by comparing parents living in an area of disadvantage with parents living in an area of relative affluence (Sparks and Craven, 1994). The recruitment methods used which provided health visitors with specific criteria, ensured that bias was not introduced by health visitors selecting families to invite to the study. The use of additional recruitment strategies in St Ann’s ensured that sufficient participants were recruited to complete data collection and to gather data from a ‘hard to reach’ group. Although only 16 participants were recruited in St Ann’s, as data saturation was reached, this did not negatively impact on the findings. The use of quota sampling ensured an even distribution of child ages between the wards (Patton, 1980). The interview process collected data that included descriptions of personal experiences and previous injury events from parents living in both wards. Perfect world scenarios were not given by parents in the interviews. They did not describe a situation where their child plays and never has an injury or near miss event and that they listen to all safety advice and implement it all. This is what they may have tried to describe if parents had felt uncomfortable or judged and had wanted to describe scenarios of what they ‘should’ do.

Parents were comfortable to provide descriptions based on the reality of their everyday lives. They described injury near misses and actual events, difficulties with keeping children safe and their perceptions of safety equipment and safety advice. A further strength of this study is that a systematic method was used during the data analysis process. Three researchers identified and discussed themes in the data to avoid subjectivity (Pope and Ziebland, 2000). The data was also explored for descriptions that did not fit into the main themes (Murphy and Dingwall, 1998).

The limitations of the study are that it is possible that the parents who agreed to take part in the study had a particular interest in or were motivated by the aims of the study or child safety in general. The data may, therefore, not be representative of all parents living in the two areas (Bowling, 2002). It is not appropriate to make generalisations to the wider population from the findings of this study. However, it is possible to transfer some of the findings to similar groups of people who live in similar circumstances.

Parental supervision has been shown to be perceived by parents as reducing the risk of unintentional injury to their children (Sparks and Craven, 1994; Garling and Garling, 1995; Roberts and Smith, 1995). Our study found that parents living in both areas described the importance of parental supervision to minimise unintentional injury risks to children; differences between the areas in terms of attitudes towards supervision do not provide an explanation for differential injury rates. As identified in other studies parents acknowledge that there are times during the day when their ability to supervise may be impaired, mainly due to additional household tasks that they are required to undertake (Roberts and Smith, 1995; Boles and Roberts, 2008). Parents living in both areas describe how they try to manage these times with strategies aimed at occupying the child to prevent them from engaging in risk taking behaviour.

Living in rented accommodation is associated with an elevated risk for injury as is living in poor quality accommodation and transient housing (Roberts and Smith, 1995; Carr, 2005; Kendrick and Mulvaney, 2005; Brussoni and Towner, 2006; Olsen and Bottorff, 2008). Children living within an environment where there is limited space for safe play both indoors and outdoors are also at an increased risk of unintentional injury (Olsen and Bottorff, 2008). St Ann’s families that live in a home that is in greater need of repair may face a greater requirement to provide more constant and vigilant supervision than parents in Wollaton West who live in homes of good repair and quality.

The maternal age was very different between the areas; mothers living in the disadvantaged area
had a lower maternal age than mothers living in the advantaged area. Low maternal age is also a factor associated with increased injury risk (O’Connor and Davies, 2000; Kendrick and Mulvaney, 2005). Combined with living in poor quality rented accommodation this may provide some explanation for the difference in injury rates between the areas.

Listening was described as a supervision strategy in both areas; however it was used more in Wollaton West. There are two possible reasons for this finding. One explanation may be associated with social desirability bias (Bowling, 2002). Parents in St Ann’s may have been more reluctant to reveal that they use listening as a supervision strategy than parents in Wollaton West. This may be linked with the fear of talking to professionals for fear of the consequences (Brannan, 1992; Mull and Agran, 2001; Hendrickson, 2008; Olsen and Bottorff, 2008).

Alternatively the difference may be linked to the home environment and parents in Wollaton West feel more relaxed that they have the safety measures in place, to use listening as a strategy. In St Ann’s parents may be keeping their child within their vision as far as is possible in order to minimise injury risks.

Epidemiological data have well established that boys experience more injuries than girls for all injury mechanisms (ONS, 2009). Other studies have identified differences in risk taking behaviour of boys and girls (Ginsburg and Miller, 1982; Block, 1983; Morrongiello and Dawber, 1998; 2000; Morrongiello and Hogg, 2004). The findings of our study also show that parents describe boys as more boisterous and more likely to engage in rough play. Other studies have shown that listening is used as a supervision strategy for boys more than girls (Morrongiello and Ondejko, 2004). Our study found that listening was used in both areas for boys more than girls. As boys behaviour generally is more associated with increased risk taking and more active play, such as climbing, then this may explain the differential injury rates between boys and girls. Furthermore, boys left alone with listening used as the supervision strategy and who live in a disadvantaged area have a further elevated risk for injury.

Parents described the character and age of the child as shaping their supervision practices consistent with the findings of Ingram and Emond (2009). Child character was described rather than child gender, or a general awareness of the differential injury rates and risks associated with boys and girls. It may be that parents supervise boys and girls differently but do not perceive themselves as doing so.

It has been established that an older sibling can increase the injury risk to a younger sibling (Nathens and Neff, 2000). Other studies have reported that parents living in a disadvantaged area described that older siblings would provide some supervision of younger children (Ingram and Emond, 2009). The lack of perception and awareness of this in St Ann’s is important as they are not anticipating the potential injury risk of the older child to the younger child, which may further explain the differential injury rates.

The findings suggest that parents need to be made aware of the differences in the risk taking behaviour between boys and girls, the differential in injury rates and how boys and girls may require differential supervision, in order to have a preventative effect for unintentional injury. Parents living in disadvantaged areas, particularly those who are parenting alone, may require some education with regard to the injury risks of an older child to a younger sibling. Some parents may need additional support with child care.

Further qualitative research is needed to explore how parents combine watching and listening supervision strategies. This includes when, why and how parents use the different supervision strategies. Further research is also required to explore when, why and how different supervision strategies are used for boys and girls to help explain differential unintentional injury rates between boys and girls.

The findings indicate that parents describe the character of the child as shaping parental supervision strategies. Further research is required to determine whether factors such as parenting style, the maternal relationship with the child and responsivity of the child to direction effect parental supervision style. Specifically, research is required that includes parents living in disadvantaged areas.

The findings that parents who were parenting alone, were more likely to use older siblings as supervisors, and who were less likely to describe older siblings as an injury risk to the younger child, requires confirming and quantifying in
further research. Factors such as lone parenting and a lack of support for child care require further research, in order to explain the relationship between parenting alone and supervision by older siblings.

Conclusion

This study found that parents in both areas perceived parental supervision as important in reducing childhood unintentional risks. Listening was used by parents in both areas but it was used more in the advantaged area. In both areas listening was used as a supervision strategy for boys more than girls. Parents described child character rather than child gender as shaping supervision practices. A difference was found with regard to older siblings; parents living in the advantaged area described older siblings as an injury risk to younger children. Parents in the disadvantaged area described older siblings as providing some supervision for younger children. Parents living in disadvantaged circumstances may face greater challenges with regard to supervision than parents living in advantaged circumstances and this may partly explain differences in injury risk.

Explanations for injury rates between the two areas are not due to differences in the parental perceptions of the importance of supervision in minimising injury risk. Parents in both areas describe the need to be constantly aware of where the child is and the activity that the child is engaged with. Furthermore parents in both areas describe how there is an increased injury risk to the child when the parents ability to supervise is impeded either by multi-tasking or distractions. Parents in both areas use listening as a supervision strategy. Listening was used more for boys than girls and parents living in Wollaton West used listening more than parents living in St Ann’s. Parents living in both areas described how child character shaped supervision strategies. A difference exists between the areas in relation to older siblings and injury risk to the younger child. In St Ann’s, where a mother was parenting alone, mothers described older siblings as providing some supervision to the younger child. There were no descriptions by mothers in St Ann’s of older siblings as an injury risk to the younger child. In contrast in Wollaton West mothers described older children as an injury risk to the younger child. This difference may provide some explanation for differences in injury rates between the two areas.

Further qualitative research is needed to explore how parents combine watching and listening supervision strategies. This includes when, why and how parents use the different supervision strategies. Further research is also required to explore when, why and how different supervision strategies are used for boys and girls to help explain differential unintentional injury rates between boys and girls. The findings indicate that parents describe the character of the child as shaping parental supervision strategies. Further research is recommended to determine whether factors such as parenting style, the maternal relationship with the child and responsiveness of the child to redirection effect maternal supervision style. Further research is required that specifically includes parents living in disadvantaged areas. The findings that parents living in circumstances of disadvantage and who were parenting alone, were more likely to use older siblings as supervisors, and who were less likely to describe older siblings as an injury risk to the younger child, requires confirming and quantifying in further research. Factors such as lone parenting and a lack of support for child care require further research, in order to explain the relationship between living in disadvantaged circumstances and supervision by older siblings.

What this study adds

Few qualitative studies have investigated maternal perceptions of supervision to reduce unintentional injury sustained at home, by comparing two different socio-economic groups. Exploring maternal perceptions in this way has teased out and highlighted differences in order to generate possible explanations for differential injury rates.

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Ethical Standards

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