Childhood Home Safety

- Because young children spend so much of their time at home, the home is unfortunately where accidents are likely to occur, both intentional and unintentional. The home is defined as the environment in and around the home, including the garden and driveway.\(^1\)

- Each year in the European Union there are approximately 10 million home injuries for all ages requiring medical attention. Approximately 40,000 of these result in death and one million in hospital admissions.\(^2\) Yet it is unknown how many of these injuries occur in children throughout the European Union as only national estimates exist.

- For all ages there are more deaths in England\(^3\) and France\(^4\) from unintentional home injuries than from fatal road crashes.

- In Austria\(^5\) and France\(^6\) approximately half of all unintentional childhood injuries occur in the home environment.

- Most unintentional child home injuries occur in the living room or bedroom where children spend most of their time. Falls are the number one cause, followed by collisions with a person or object, and crushing/cutting or piercing injuries. The majority result in a bruise, followed by a fracture. The body parts most injured are the head followed by the extremities and then the lower extremities.\(^7\)

- In the Netherlands most children under 15 years of age who go to the emergency department because of an unintentional home injury are sent home after treatment (47%), while another 41% after being treated at the emergency department are referred to outpatient services or to a general practitioner for follow-up. Yet 7% of home injuries are severe enough to result in hospitalisation, for injuries such as burns or fractures.\(^8\)

- Every day ten children under five years of age in the United Kingdom\(^4\) and four in the Netherlands\(^8\) are severely burned or scalded in their home. The majority are due to contact with hot objects and liquids and it is difficult to determine if these injuries were intentional. Non-accidental burns are usually due to neglect versus abuse.\(^9\)

- In the United Kingdom over 137,000 children less than 14 years of age are brought to the emergency department each year because of garden injuries.\(^10\) In the garden children are at risk for a variety of injuries, such as drowning injuries in garden ponds or pools, poisonings from plants or garden chemicals, and burns from barbecues.

- Children from deprived areas are 16 times more likely to suffer injury and death in house fires.\(^11\) They are also more likely to be admitted to hospital with scald injuries and to be admitted with more severe scald injuries than children from less deprived homes.\(^12\)

Costs

- The cost of fatal home injuries to children 0 to 14 years old in the United Kingdom has been estimated at €174 million. Preventing the deaths and emergency department visits for home injuries would result in savings of €14 billion a year.\(^13\)

- In Motola, Sweden it was found that 35% of all unintentional injuries occurred in the home, accounting for the largest share of healthcare costs and children 0 to 6 years old were a predominant age group.\(^14\)

- In the Netherlands in 2005 unintentional home injuries for children under 15 years of age cost € 29 million per year in medical costs, with falls costing the most followed by burning and collisions.\(^15\)

- In the United States unintentional home injuries for all ages cost €175 billion per year in medical costs, with falls costing the most followed by collisions and poisonings.\(^16\)

Intentional Injury

- A common descriptor of homes where children are being maltreated is unsafe physical environments\(^17\) where young children have easy access to lethal hazards.\(^18\)

- Child maltreatment is defined as physical assault, emotional assault and neglect.\(^19\)

- Infants 0 to 5 months are at the highest risk of being battered\(^20\) and severely physically abused.\(^21\)
• Fatal child abuse and neglect also occurs in the home. In the European Union homicide is the third leading cause of injury death for children 0 to 14 years of age.\textsuperscript{22} About 90% occurs among children 0 to 4 years old.\textsuperscript{23}

• In England and Wales the majority of child homicides were classified as ‘assault by other and unspecified means’; for children 0-4 years old ‘child battering and other maltreatment’ and for infants, ‘hunger, thirst, exposure, neglect’.\textsuperscript{24}

• The majority of child homicide victims are killed by a parent, most often the child’s biological father.\textsuperscript{25} Parental socio-economic status has been found to be the single most important determinant for parents committing homicide on their children.\textsuperscript{26} Also closely and consistently linked with child maltreatment in general are poverty, stress and drug and alcohol abuse.\textsuperscript{27} In the European Union 19% of all child homicides are due to alcohol.\textsuperscript{28}

### Home Design

• Occupants of homes needing repair have 3.8 times the risk of unintentional injury compared to occupants of homes in no need of repair.\textsuperscript{29}

• In the United Kingdom unintentional home injuries have been shown to be related to the type of housing - with more injuries occurring in apartment buildings in blocks two to three stories high, but no relation found with older versus newer built homes.\textsuperscript{30}

• Currently, there is no widely accepted, standardised system in Europe for home occupants to know whether their home is ‘safe’. Countries rely on building regulations on a national or regional level to regulate hazards in the construction of homes. Yet there are many potential hazards in the home which are not covered by current legislation\textsuperscript{31} and regulations vary widely within and across countries, for example requirements in the design of stairs or windows.\textsuperscript{32}

### Prevention Effectiveness

• One study in the United States estimated that 90% of unintentional fatal injuries to young children in and around the home were preventable.\textsuperscript{33}

• Studies indicate that home modifications show promise in making homes safer, yet more evidence is needed to show their effectiveness in reducing injuries.\textsuperscript{34} 35

• Educating caregivers on injury risks to young children in the home combined with easy access to reduced-cost safety products has been shown to be effective in promoting child home safety.\textsuperscript{36}

• Home safety visits have been found to significantly reduce injuries in children above one year of age\textsuperscript{37} and are effective in preventing maltreatment in high-risk groups before it occurs.\textsuperscript{38} But they are not effective in preventing the recurrence of child physical abuse and neglect.\textsuperscript{39}

• A program of home visits can also be effective in decreasing hazards accessible to children in the home and these improvements have been found to be maintained over an extended period of follow-up checks.\textsuperscript{40}

\textit{Note: For prevention measures for specific types of injuries such as burns, poisonings or falls, please refer to the home injury factsheets on these topics located on the Alliance website: http://www.childsafetyeurope.org}
**Recommended Policy Actions**

A number of legislative and collaborative ways exist to significantly improve child home safety in Europe:

**Legislation**

- For the European Commission to continue its work in developing standards for home childcare products that have no standards and to have these adopted and enforced at the national level.

- For the European Commission to improve standards for home childcare products for which, according to child safety experts, the standards are inadequate.

- For the European Commission to support the development and enforcement of improved regulatory standards for home safety design, construction and maintenance across Europe which will influence national/regional Member State regulations.

**EU Collaboration**

- For the World Health Organization European Office to develop a standardised system of housing scores in Europe for occupants to know the safety quality of their home and to determine the priority areas for housing improvements.

- For Member States to implement standardised housing safety scores across Europe.

- For the European Commission to allocate resources for the administration of surveys with standardised and validated questions to examine changes in home environments and safety practices in order to determine the effectiveness of injury interventions in the home.

- For the European Commission and Member States to allocate resources for improvement of the quality and completeness of child home injury data and to perform regular and updated analyses of trends and inequalities in home injury patterns.

- For Member States to make the reduction of child home injuries a goal in their national public health action plans and to provide measurable targets for evaluation.

- For the European Commission and Member States to support child home safety media and educational campaigns targeting caregivers of young children, as well as the development of improved ways to disseminate information on home safety to the general population.

- For Member States to support a Home Safety Congress on a yearly basis for exchange of good practices and state of the art information on the prevention of child home injuries.

- For child home safety practitioners and researchers to conduct evaluation studies to determine the effectiveness of improvements in home design and products, as well as interventions to improve the safety behaviour of caregivers of young children.

*Note: For recommended policy actions for specific types of injuries such as burns, poisonings or falls, please refer to the home injury factsheets on these topics located on the Alliance website.*

http://www.childsafetyeurope.org

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References


5. Austrian Research Centre on Childhood Injuries, Department of Paediatric Surgery, Medical University of Graz, 2006.


