



# Playground Safety

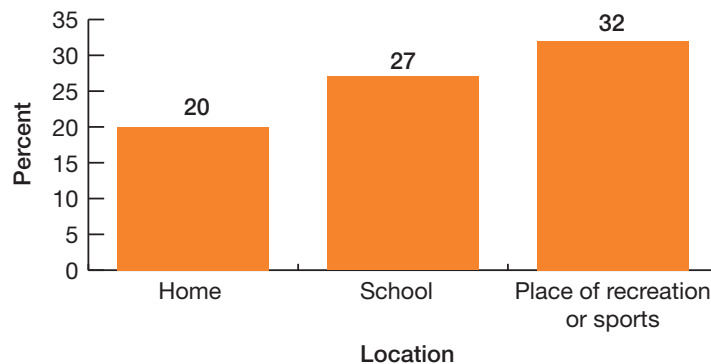


## Key Facts

Non-fatal playground injuries are most often due to falls. The leading cause of death related to the playground and playground equipment is strangulation, and the majority of these deaths occur on home playgrounds.

- From 1990 to 2000, at least 147 children have died from playground equipment-related injuries. From 2001 to 2008 the Consumer Product Safety Commission documented an additional 40 fatalities. Nearly 70 percent of these deaths occurred on home playgrounds.
- About 45% of playground-related injuries are severe, which include fractures, internal injuries, concussions, dislocations, and amputations.
- In 2008, nearly 206,599 children ages 14 and under were treated in hospital emergency rooms for playground equipment-related injuries; children ages 5 to 14 accounted for 71 percent of these injuries.
- The public playground injury rate among children ages 5 and under has doubled since 1980.
- In 2008, an estimated 10,372 children under the age of 2 years were treated in hospital emergency rooms for injuries associated with playground equipment; 93 percent of the injured were between 1 and 2 years old.

**Playground Equipment-Related Injuries Treated in U.S. Hospital Emergency Rooms by Location of Incident (NEISS data 2008)**



## Who

- Children ages 5 to 9 account for more than half of all playground-related injuries. The majority of these injuries occur at school.
- Children less than 4 are more likely to suffer head and face injuries, while children ages 5 to 14 are more likely to suffer injuries to the arm and hand.
- Female children hold a slightly higher risk of experiencing playground-related injuries than males.

## How

- Falls are the most common mode of playground injury accounting for approximately 80 percent of all playground-related injuries.
- Strangulation is the primary cause of playground fatalities, accounting for over 50 percent of the deaths. Falls to the ground are responsible for an additional 20 percent of the deaths.
- Head injuries are involved in 75 percent of all fall-related deaths associated with playground equipment.
- In a study conducted by CPSC, it was found that only 9 percent of home playgrounds had proper protective surfacing. About 80 percent of public playgrounds in the study had proper protective surfacing.
- Lack of supervision is associated with approximately 40 percent of playground injuries.
- A recent study found that children play without adult supervision more often on school playgrounds (32 percent), following park playgrounds (22 percent) and lastly, childcare centers (5 percent).

## Where and When

- It is estimated that one-third of playground deaths and 75 percent of playground injuries occur on public playgrounds.
- Nearly 40 percent of playground injuries occur during the months of May, June and September.
- On public playgrounds, over half of the injuries occur as a result of the child climbing on equipment and falling, and 67 percent of injuries that occur on home playgrounds involve swings.

## Prevention Strategies

- Increasing active adult supervision of children on playgrounds.
- Decreasing the height of playground equipment and using protective surfaces on the playground (shock-absorbing materials)—such as shredded rubber, wood chips, artificial turf and sand—that reduce injuries related to falls. These have shown to markedly reduce injury risk to children.
- Educating the public about the need for playgrounds to have separate age-appropriate playground areas for children. Only 42 percent of U.S. playgrounds have separate play areas for children ages 2 to 5 and children ages 5 to 12, and only 9 percent have signs indicating the age-appropriateness of equipment.

## Laws and Regulations:

- A total of fifteen states have enacted some form of playground safety legislation or regulations. In most cases, those regulations apply only to playgrounds at licensed child care facilities.
- Playground equipment guidelines and voluntary standards have been developed by the U.S. Consumer Product Safety Commission (CPSC) and the American Society for Testing and Materials (ASTM). Five states (California, Michigan, New Jersey, Rhode Island, and Texas) require public playgrounds to meet all or part of the CPSC guidelines and two of those states also require compliance with all or part of the ASTM standards (California and Michigan). In Rhode Island, only school playgrounds are subject to the requirement.
- The CPSC has issued voluntary guidelines for drawstrings on children's clothing to prevent children from strangling or getting entangled in the neck and waist drawstrings of outerwear garments, such as jackets and sweatshirts. Children are at risk from strangulation when drawstrings on clothing become entangled in playground equipment.