Outdoor Play

**Combating Sedentary Lifestyles**

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Play has increasingly become undervalued in the United States. The increasing emphasis on cognitive and preliteracy skills, even during the infant and toddler years, has taken precedence over physical development. The lack of play, especially outdoor play, is a contributing factor to the growing sedentary habits of children. The World Health Organization (WHO) suggested that sedentary lifestyle is one of the 10 leading causes of death and disability in the world and contributes to unhealthy diets, caloric excess, obesity, and associated chronic diseases (WHO, 2007).

Interestingly, movement and motion are often limited and even denied young children in home and child care environments in the United States today. Children are consistently encouraged to sit still, slow down, stop running, and otherwise curb their movement and motion. Many children who spend long hours in child care programs that fail to keep them physically active also have limited opportunities to engage in outdoor, physically stimulating play after they return home because, after a long workday, their parents have many other family responsibilities to attend to and may not have time to play.

For a variety of reasons, our society has moved our children indoors. Parents no longer feel safe letting their children run around the neighborhood unsupervised. Children are spending more time in structured activities and in child care arrangements with less available free time. As a result of these societal changes, there is concern about the negative social and emotional impact of spending less time interacting with others in the natural environment.

Exacerbating the problem are practices such as the overuse of infant seats, swings, bouncy chairs, and other devices that can restrain children for unreasonable amounts of time. Caregivers may use buggies and strollers in child care centers to transport toddlers versus allowing them to walk or run. The overuse of any piece of equipment that restricts movement can prevent children from using the opportunities they need for vigorous activity. Restricted more often than not to indoor environments with too little space for free physical activity, children are growing more and more sedentary and are now suffering the consequences of overweight and obesity with the potential for a host of serious related health issues.

**Why Go Outside?**

Keeping children inside for most of the day leads to less active play and for vigorous activity. Restricted more often than not to indoor environments with too little space for free physical activity, children are growing more and more sedentary and are now suffering the consequences of overweight and obesity with the potential for a host of serious related health issues.

**Physical Activity in Child Care**

Of the children under age 5 in the United States, almost 12 million (63%) participate in some type of child care arrangement every week. On average, the children under age 5 with working mothers spend 36 hours per week in child care (National Association of Child Care Resource and Referral Agencies, 2007). Child care environments offer an untapped potential for addressing obesity, overweight, and sedentary lifestyles in young children. But too often, these children spend the greater portion of their days inside, thereby decreasing opportunities for vigorous physical activity.

In the Baseline Survey of Environmental Conditions of Outdoor Areas in North Carolina Childcare Centers, researchers found that children in 312 North Carolina child care centers (10% of the state’s licensed centers) spent, on average, only 60–75 minutes outside as part of a 10-hour day. The researchers found that many centers were below this average.

An additional study conducted by Pate, Pfeiffer, Trost, Ziegler, and Dowda (2004)
suggests that children in child care and Head Start spend far too little time engaged in vigorous physical activity during the hours they attend the center. The researchers used instruments that measure movement to record the physical activity of children in nine Head Start and child care centers in South Carolina. Results of the study found that children spent only 4–10 minutes per hour engaging in vigorous physical activity while attending the centers. A survey of parents indicated that children were unlikely to engage in enough additional physical activity outside the center to compensate for inadequate time in the centers. The researchers concluded that children are not receiving adequate physical activity to meet current recommendations. Additional information from structured interviews with child care center personnel indicated that center policies and practices such as daily schedules and curriculum also had an impact on the amount of children’s physical activity (Pate et al., 2004).

The National Association for Sport and Physical Education has established useful guidelines for the amounts and kinds of physical activity for infants and toddlers (2002). For infants, the guidelines suggest that part of the infant’s day should be spent with a caregiver or parent who provides systematic opportunities for planned physical activity. Recommendations include safe settings that facilitate physical activity, environments that do not restrict movement for prolonged periods of time, physical activity that promotes the development of movement skills, and environments that provide large-muscle activities. The guidelines recommend that toddlers should be exposed to planned physical activities for at least 30 minutes throughout the day and at least 60 minutes and up to several hours per day of unstructured physical activity. In addition, toddlers should not be sedentary for more than 60 minutes at a time except when sleeping.

Outdoor Environments

Infants and toddlers benefit from time spent outside as much as older children do, but caregivers may not recognize the need or benefits for very young children. Even when children are taken outside, they often play in environments that fall far short of providing them with comfortable, engaging, and challenging activities needed for optimal physical development. Play spaces for infants and toddlers need to accommodate the needs of young babies, crawling infants, new walkers, and active climbers. They must be free of choking hazards and provide a soft landing for unsteady feet. They also need to provide space for safe exploration, play with peers, and comfortable seating for adults. However, many outdoor play areas for children are dull, show a striking dearth of natural elements, and often restrict children’s play to a flat, rectangular, rubberized surface. Unfortunately, there is little published guidance available to early care and education programs about how to design effective outdoor spaces. (See “Enhancing Outdoor Play Areas” for some simple ways to improve an outdoor space.)

A review of current literature and developmentally appropriate practices for young children reveal limited guidance for caregivers and parents in providing adequate outdoor activities for very young children. However, a number of organizations can provide some useful guidelines. For example, the National Association for the Education of Young Children provides certification standards that include specifications on the amount
Enhancing Outdoor Play Areas

Budget considerations play a role in how much of a redesign a child care program can do to enhance their outdoor play spaces, but even simple and relatively inexpensive changes can make a big difference:

- Put a diaper changing table in the outdoor play area so that caregivers do not have to disrupt the outdoor play time to attend to diapering needs.
- A porch swing or hammock in a shaded area provides an ideal setting for feeding and nurturing infants and offers comfort for the caregiver.
- Sand and water activities delight young children. Slices of logs, large pebbles, and places to hang shovels, pails, and other items in the sand area add interest and opportunities for gross and fine motor development.
- Create a natural habitat with butterfly bushes or bird feeders to provide firsthand experience with the natural world.
- Hang wind chimes or mobiles, both of which provide visual and auditory interest.

of space made available; mandate regular safety inspections; and require that outdoor play areas, designed with equipment that is age and developmentally appropriate and that is located in clearly defined spaces with semiprivate areas where children can play alone or with a friend, accommodate:

- Motor experiences such as running, climbing, balancing, riding, jumping, crawling, scooting, or swinging.
- Activities such as dramatic play, block building, manipulative play, or art activities.
- Exploration of the natural environment, including a variety of natural and manufactured surfaces, and areas with natural materials such as nonpoisonous plants, shrubs, and trees. The program makes adaptations so children with disabilities can fully participate in the outdoor curriculum and activities. (National Association for the Education of Young Children, 2007)

Important information about playground safety is available from the U.S. Consumer Product Safety Commission (www.cpsc.gov), the National Program for Playground Safety (www.uni.edu/playground), and the National Resource Center for Health and Safety in Child Care and Early Education (http://nrc.uchsc.edu). Programs also need to consult with state child care licensing regulations, brush up on local building codes, and consult other applicable regulations that may relate to the process of designing and equipping a playground.

In addition to safety considerations unique to infants and toddlers, it is vitally important to understand how the developmental skills of children under 3 years of age differ from older children. The developmental needs of very young children require different kinds of equipment, activities, and experiences in the outdoor play space. The Community Investment Collaborative for Kids Resource Guide (Pardee, Gillman, & Larson, 2005) provides some specific recommendations for this age group:

- Places for eating or just relaxing outdoors in the shade;
- Convenient access to diapering area and hand-washing;
- Safe spots for crawling, such as grass, a unitary safety surface of vinyl or wood composite decking, such as Trex;
- Sturdy ledges or railings at a height of 14–16 inches for babies pulling up to stand;
- A non-metal slide with a gentle slope accessed by a low climbing ramp with steps and a handrail;
- Bucket swings at a safe distance from other play;
- Short tunnels and peek-a-boo places;
- Seating at various levels;
- Rocking toys that children can sit inside;
- Pushing or riding wheeled toys; and
- Safe water and sand play with simple props (Pardee et al., 2005, p. 13).

The Built Environment

The U.S. National Institute of Environmental Health Sciences defines the built environment as all of the buildings, spaces, and products created or modified by people (League & Dearry, 2004). The design of the built environment can have an important impact on obesity by affecting physical activity and eating habits. Researchers have demonstrated that time spent outdoors strongly correlates with increased physical activity and fitness in children (Moore et al., 2003). Built environments that affect children’s level and frequency of physical activity include child care center play areas, public parks, and common areas in communities. Well-designed outdoor environments can inspire greater interest and opportunities for activity. However, a better understanding between obesity and the built environment will require a collaborative approach within communities by involving parents, educators, community planners, researchers, environmental scientists, engineers, elected officials, and other stakeholders in developing successful strategies that get children and their families outdoors and active.

The Natural Learning Initiative (NLI) at North Carolina State University is one example of how community partnerships can promote the importance of the natural environment for early childhood health and development. NLI’s mission is to “help communities create stimulating places for play, learning, and environmental education—environments that recognize human dependence on the natural world. We collaborate with educators, play leaders, environmental educators, planners, politicians, and all professionals working for and with children” (Natural Learning Initiative n.d.). NLI’s services include design consultation.

A curving toddler garden path, covered with a skim coat of soft, pour-in-place safety surface, accommodates children with push toys. Small-scale shrubs that children can walk between offer whole-body tactile stimulation.
(see photos throughout this article for a sample of their work) and training programs that help child care centers develop site-specific play and learning designs as well as related educational programs. The NLI Web site provides recommended readings, links, and other resources on a wide range of topics related to the importance of the natural environment for children.

Conclusion

There is undisputed consensus that prevention of overweight and obesity must begin early in life to address the increasingly unhealthy and sedentary lifestyle of children. Environments that promote and support active and energy-expending opportunities and that allow for the free, unrestricted movement of young bodies must be seen as a necessity, not a luxury for our children. Primary prevention efforts to address obesity and overweight in infants and toddlers will need the cooperation and collaboration of the whole community. Here are some examples of recommended actions:

- Parents and caregivers can balance time inside with time outside and can give children ample opportunities for unrestricted movement.
- Pediatricians can remain alert for the onset of overweight and obesity and can inform parents of the importance of

Learn More

**National Clearinghouse for Educational Facilities (NCEF)**

[www.edfacilities.org/ri/playgrounds.cfm](http://www.edfacilities.org/ri/playgrounds.cfm)

This Web site contains NCEF’s resource list of links, books, and journal articles on the planning and design of playgrounds for varying age levels, including resources on safety, accessibility, equipment, surfaces, and maintenance.

**Community Investment Collaborative for Kids, Resource Guide 4: Creating Playgrounds for Early Childhood Facilities**


www.lisc.org/content/publications/detail/814

This resource guide, published by the Local Initiatives Support Corporation/Community


The guidelines in this handbook are for children ages 2 years and older. The handbook is intended to raise awareness of potential safety hazards and includes checklists and recommendations for the safe construction and maintenance of public playgrounds.

**National Program for Playground Safety**

[www.uni.edu/playground](http://www.uni.edu/playground)

NPPS’s mission is to help the public create safe and developmentally appropriate play environments for children. Information packets ($5.00 each) offer resources about supervision, age-appropriate design, surfacing, maintenance, planning, accessibility, and fundraising. The center provides consulting, workshops, and online training.

**The Natural Learning Initiative**

[www.naturalearning.org](http://www.naturalearning.org)

The purpose of the Natural Learning Initiative is to promote the importance of the natural environment in the daily experience of all children through environmental design, action research, education, and dissemination of information. Services include design consultation, research and evaluation, training, distance learning, and materials dissemination.
References


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