

Healthy Living

Patient Information from the American Chiropractic Association

Avoid Pain from Backpack Use

Back pain is pervasive among American adults, but a new and disturbing trend is emerging. Young children are suffering from back pain much earlier than previous generations, and the use of overweight backpacks is a contributing factor, according to the American Chiropractic Association (ACA). In fact, the U.S. Consumer Product Safety Commission reports that backpack-related injuries sent more than 7,000 people to the emergency room in 2001 alone.

“In my own practice, I have noticed a marked increase in the number of young children who are complaining about back, neck and shoulder pain,” said Dr. Scott Bautch, a past president of the American Chiropractic Association's Council on Occupational Health. “The first question I ask these patients is, ‘Do you carry a backpack to school?’ Almost always, the answer is ‘yes.’”

This new back pain trend among youngsters isn't surprising when you consider the disproportionate amounts of weight they carry in their backpacks - often slung over just one shoulder. According to Dr. Bautch, a recent study conducted in Italy found that the average child carries a backpack that would be the equivalent of a 39-pound burden for the average adult man, or a 29-pound load for the average adult woman. Of those children in the study who carried heavy backpacks to school, 60 percent had experienced back pain as a result.

Dr. Bautch also reports that preliminary results of studies being conducted in France show that the longer a child wears a backpack, the longer it takes for a curvature or deformity of the spine to correct itself. “The question that needs to be addressed next is, ‘does it ever return to normal?’”



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The results of these types of studies are especially important as more and more school districts - many of them in urban areas - remove lockers from the premises, forcing students to carry their books with them all day long.

The problem has become so widespread, that the California State Assembly recently passed legislation that would force school districts to develop ways of reducing the weight of students' backpacks. Similar legislation is being considered in New Jersey as well. The ACA suggests limiting the backpack's weight to no more than 10 percent of the child's body weight and urging the use of ergonomically correct backpacks.

What Can You Do?

The ACA offers the following tips to help prevent the needless pain that backpack misuse could cause the students in your household.

- Make sure your child's backpack weighs no more than 10 percent of his or her body weight. A heavier backpack will cause your child to bend forward to support the weight on the back, rather than the shoulders.
- The backpack should never hang more than four inches below the waistline. A backpack that hangs too low increases the weight on the shoulders, causing your child to lean forward when walking.
- A backpack with individualized compartments helps in positioning the contents most effectively.
- Make sure that pointy or bulky objects are packed away from the area that will rest on your child's back.
- Bigger is not necessarily better. The more room there is in a backpack, the more your child will carry-and the heavier the backpack will be.
- Urge your child to wear both shoulder straps. Lugging the backpack around by one strap can cause the disproportionate shift of weight to one side, leading to neck and muscle spasms, as well as low-back pain.
- Wide, padded straps are very important. Non-padded straps are uncomfortable, and can dig into your child's shoulders.
- The shoulder straps should be adjustable so the backpack to fit to your child's body. Straps that are too loose can cause the backpack to dangle, causing spinal misalignment and pain.
- If the backpack is still too heavy, talk to your child's teacher. Ask if your child could leave the heaviest books at school, and bring home only lighter hand-out materials or workbooks. Or encourage your local school district to purchase textbooks on CD-Rom.

- Although the use of rollerpacks - or backpacks on wheels - has become popular in recent years, the ACA is now recommending that they be used cautiously and on a limited basis by only those students who are not physically able to carry a backpack. Some school districts have begun banning the use of rollerpacks because they clutter hallways, resulting in dangerous trips and falls.

Chiropractic Care Can Help

If you or your child experiences any pain or discomfort resulting from backpack use, call your doctor of chiropractic. Doctors of chiropractic are licensed and trained to diagnose and treat patients of all ages and will use a gentler type of treatment for children. In addition, doctors of chiropractic can also prescribe exercises designed to help children develop strong muscles, along with instruction in good nutrition, posture and sleeping habits. ■



For more information on prevention and wellness, or to find a doctor of chiropractic near you, go to the Patient Information section at www.acatoday.org.