

# Girls in sports need to worry about their knees, study finds

By Nicole Villalpando, Austin-American Statesman on 07.01.14

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In this April 8, 2011, file photo, Aliya Mustafina of Russia gets assistance after suffering from an injury at the vault during the women's individual all-around gymnastics final of the Artistic Gymnastics European Championships in Berlin, Germany. Photo: AP Photo/Gero Breloer,File

Watch your knees, girls.

A new study in *Pediatrics*, the journal for the American Academy of Pediatrics, found that anterior cruciate ligament injuries are on the rise, and girls are more likely to get this injury than their male friends.

In the U.S. study, girls playing the same sport as boys are 2.5 to 6.2 times more likely to have an ACL injury than boys. In a Norwegian study, girls ages 10-19 had a 76 in 100,000 chance of tearing their ACL; boys in that same age range had a 47 in 100,000 chance of the same injury.

About 70 percent of these injuries happen when there is no contact with another player at all.

Usually, you feel a pop in the knee and then see swelling, says Dr. Randall Schultz, an orthopedic surgeon with Texas Orthopedics. Sometimes it will hurt; other times, the pain might not be that bad.

It's not something you have to go to the emergency room for, he says, but you should see a doctor the next day or after the weekend is over to see what's going on and what needs to be done. In the meantime, put ice on it and use crutches to try to stay off it, Schultz says.

Sports where kids stop suddenly and turn a different direction usually are the common offenders: soccer, gymnastics, volleyball and basketball. Boys also saw problems in football. Locally, doctors see all of these, plus cheerleading and dance.

The risk goes up for girls once they hit age 12 or 13 and for boys around age 14 or 15. Why? Puberty. This is the time when kids grow faster and their bodies can't always keep up, which is especially true in the leg's tibia and femur bones. For girls, hormones also make the ligaments more lax. In boys, the testosterone surge actually helps them increase muscular power and control, allowing them to handle the rapid skeletal growth better.

The number of kids with ACL injuries is on the rise because more kids are focusing on one sport intensely all year with few breaks. This is very different from the old habit of kids playing a variety of sports with time off in between seasons.

The treatment now is also different. It used to be that you would keep the knee immobile, but now ACL tears require surgery to replace them. After the surgery, athletes usually have six months of rehabilitation exercises before they can return to sports.

An ACL injury can have long-lasting effects, however. Athletes who had an ACL injury are 10 times more likely to have early-onset degenerative knee osteoarthritis than those who never had an ACL injury.

"I have daughters that play sports. I'm worried about it," Schultz says.

A study of athletes older than 18 with an ACL injury found that only about half returned to the level of performance they had achieved before the injury.

Once you have an ACL injury, you also are 15 percent more likely to have another, a study showed.

So, what does all this research mean to you, mom and dad, and to your daughters (and sons).

Consider choosing sports programs with an athletic trainer who is leading kids through knee-saving exercises.

Bethany Thoresen, the director of rehabilitation services of Texas Orthopedics, says prevention is all about strengthening the knees. It's about doing exercises that are going to strengthen the hips, quads, hamstrings and glutes as well as build core strength. Pilates is great for that, she says.

Thoresen also recommends that kids who are active in sports see a physical therapist or trainer before an injury happens. The professional will look at how kids jump and how much control they have with their muscles. It's good to get a baseline and identify areas of weakness. Trainers or therapists will then show them how to do exercises to strengthen those weak areas.

While you can download exercise videos, you want to make sure a professional sees how your kid is doing those exercises to prevent injury.

Parents also should get realistic about how much sports kids are doing. Kids should have days off and be doing different activities. If your child is doing the same sport all year, she is overusing some muscles and not strengthening others.

“It’s too much,” Thoresen says. “They are not ready for it.”

## Quiz

- 1 Which of the following BEST explains the major cause for cruciate ligament injuries?
  - (A) kids practicing various sports without the supervision of a trainer
  - (B) overusing some muscles and not strengthening others while playing sports
  - (C) a growing competition among kids to outperform each other in different sports
  - (D) lack of exercise during the growing years combined with change in hormone levels
  
- 2 Select the sentence that is MOST important to include in a summary of the article.
  - (A) About 70 percent of these injuries happen when there is no contact with another player at all.
  - (B) Locally, doctors see all of these sports, plus cheerleading and dance.
  - (C) Athletes who had an ACL injury are 10 times more likely to have early-onset degenerative knee osteoarthritis than those who never had an ACL injury.
  - (D) Thoresen also recommends that kids who are active in sports see a physical therapist or trainer before an injury happens.
  
- 3 Select the sentence that contains a word that is a synonym for "accelerated."
  - (A) A new study in Pediatrics, the journal for the American Academy of Pediatrics, found that anterior cruciate ligament injuries are on the rise, and girls are more likely to get this injury than their male friends.
  - (B) This is the time when kids grow faster and their bodies can't always keep up, which is especially true in the leg's tibia and femur bones.
  - (C) In boys, the testosterone surge actually helps them increase muscular power and control, allowing them to handle the rapid skeletal growth better.
  - (D) A study of athletes older than 18 with an ACL injury found that only about half returned to the level of performance they had achieved before the injury.
  
- 4 Select the sentence that contains a word that is an antonym for "mildly."
  - (A) It used to be that you would keep the knee immobile, but now ACL tears require surgery to replace them.
  - (B) The number of kids with ACL injuries is on the rise because more kids are focusing on one sport intensely all year with few breaks.
  - (C) Once you have an ACL injury, you also are 15 percent more likely to have another, a study showed.
  - (D) While you can download exercise videos, you want to make sure a professional sees how your kid is doing those exercises to prevent injury.

