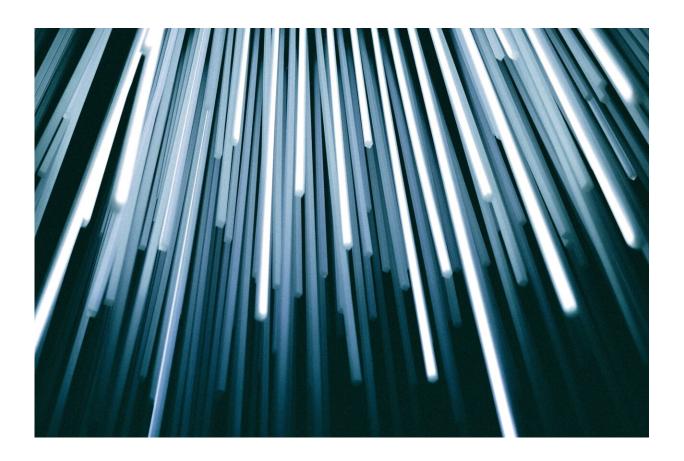


Highly specialized high school athletes more likely to have certain injuries, study says

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There is a sense among those who pay attention to youth and high school athletics that more and more young athletes today are focusing on excelling at a single sport instead of playing a variety.



Perhaps surprisingly, though, little research has been conducted on the prevalence of sports <u>specialization</u> in <u>high school</u> <u>athletes</u>—and what that might mean for these competitors' health.

"Sport specialization is a hot topic in <u>sports medicine</u>, yet there is a severe lack of empirical data that exists about the topic," says UW–Madison's David Bell, an assistant professor with the Department of Kinesiology's Athletic Training Program and the director of the <u>Wisconsin Injury in Sport Laboratory (WISL)</u>. "Physicians are way ahead of the research in this area and, anecdotally, they report that they are seeing more kids in their clinics that have injuries that used to be only found in older athletes."

In an effort to pull together some much-needed data on the topic, Bell and colleagues from across the UW–Madison campus produced a groundbreaking study that was recently published in the *American Journal of Sports Medicine*.

Titled "Prevalence of Sport Specialization in High School Athletics," this one-year observational study found that high school athletes from a smaller school were less likely to specialize in a sport than those attending a large school. The researchers also found that highly specialized athletes were more likely to report a history of overuse knee or hip injuries.





UW-Madison assistant Professor David Bell with a student athletic participant at the Wisconsin Injury in Sport Laboratory.

Bell, a faculty member with the School of Education, is the lead author on the report, which is co-authored by Department of Kinesiology Ph.D. students Eric Post and Stephanie Trigsted; Scott Hetzel, an associate researcher with the Department of Biostatistics and Medical Informatics; Timothy McGuine, a senior scientist and research coordinator with the UW Health Sports Medicine Center; and Alison Brooks, a medical doctor with the UW School of Medicine and Public Health.

If there is a key takeaway for young athletes and their parents, Bell says simply, "Make sure your children are getting breaks in competition."



To conduct their study, the researchers had 302 high school athletes at two schools complete two different surveys—one examining sport specialization and the other asking about injury history. The athletes were then classified into low, moderate or high specialization groups.

Of those who completed the survey, 34.8 percent were classified as low specialization, 28.8 percent as moderate and 36.4 percent as high specialization. The surveys found that athletes from the small school were more likely to be classified in the low specialization group (low, 43 percent; moderate, 32 percent; high, 25 percent) compared with those from the large school (low, 26 percent; moderate, 26 percent; high, 48 percent).

The researchers also found that athletes in the high specialization group were more likely to report a history of overuse knee injuries compared with moderate or low specialization athletes. Similarly, athletes who trained in one sport for more than eight months out of the year were more likely to report a history of knee injuries, overuse knee injuries and hip injuries.

"Participating in a single sport for more than eight months per year appeared to be an important factor in the increased injury risk observed in highly specialized athletes," the authors conclude.

Moving forward, Bell says he would like to build off of these findings and get this important information into the hands of <u>young athletes</u>, parents and coaches.

"Recommendations already exist to try and limit athletes' year-round exposure to sports," says Bell. "Yet we don't know how well these recommendations are known to the average person. Our next step is to survey parents and athletes regarding their knowledge of sport participation recommendations, and also their attitudes toward sport



specialization. Do they think it is important to achieve their athletic goals, and why?"

"There are so many great aspects to sports participation and we don't want this information to scare athletes or parents—we just want them to be wise consumers and to participate as safely as possible," Bell says.

More information: D. R. Bell et al. Prevalence of Sport Specialization in High School Athletics: A 1-Year Observational Study, *The American Journal of Sports Medicine* (2016). DOI: 10.1177/0363546516629943

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