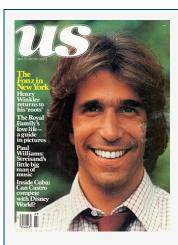


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Want a better athlete? Now scientists can build one for you

Give me a kid with natural abilities and nothing can stop us from making him the best in the world



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Want a Better Athlete? Now Scientists Can Build One for You

In this article, Gaylen Moore explores the emerging field of sports science, where experts use various scientific disciplines to enhance an athlete's performance. Dr. Marvin Clein, chairman of the department of sports sciences at Denver University, and Dr. Bruce Ogilvie of San Jose State University, are among the pioneers in this field. They use psychological and physical tests to identify and strengthen the traits required for competition.

One of their success stories is 15-year-old runner Leslie Covillo, who improved significantly after five months of training. Dr. Gideon Ariel uses computerized biomechanical analysis to optimize body movement, while Dr. Richard Kavner improves athletes' eye-movement skills.

The article concludes by highlighting the upcoming U.S. Olympic Training Center in Squaw Valley, California, which will provide Olympic hopefuls with the latest scientific advice from these experts.

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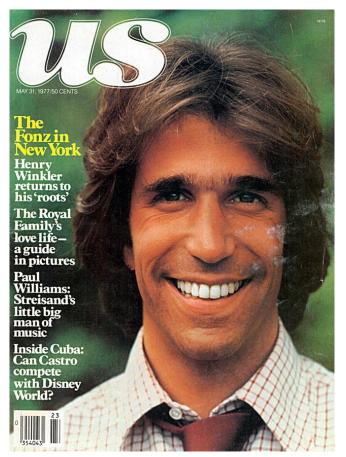
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Below find a reprint of the 5 relevant pages of the article "Want a better athlete? Now scientists can build one for you" in "US":



Want a better athlete? Now scientists can build one for you

By Gaylen Moore

"Give me a kid with natural abilities and nothing can stop us from making him the best in the world." says Dr. Marvin Clein, chairman of the department of sports sciences at Denver University.

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build up her body strength, and she had to learn how to run."
They worked together for five months. Then, the first time she went out on the track, Leslie came close to ying state injustice, the first time she went out on the track, Leslie came close to ying state injustice, and the track of the state o

Right and below, Dr. Gideon Ariel analyzing the image of a triple jumper. The pencil-shaped object in his hand computes stress on joints.











Besides testing athletes, Ariel tests equipment—like track shoes. Among his current "patients": Dallas Cowboy Rayfield Wright.

puterized Biomechanical Analysis Center, in Amherst, Mass., turns to computers to hep improve a shield: to computers to hep improve a shield: to body movement—how an athlete should move in order to insure optimum performance. "We take high-speed film of the athlete in motion, then analyze it frame by frame. The data is fed into a computer to calculate the velocity and acceleration of each acting on the point. This tells us whether the total movement is efficient." New York optometrist Dr. Richard Kawner is one of about 100 specialists in the country who are involved in improving athletes' eye movement skills—alin, flow in the proposed in the prop

think it is.

The setting the eyes in conflict with what the body reports, "explains Kawner," you can teach athletes to form new associations with ye and body movement. These exercises show athletes that by changing their body posture, they can change how they see, and become more skillful at shooting, and the seed of the seed o

Dr. Richard Kavner's specialty is eye-movement coordination. At right, a girl tries to put her finger on one of 12 clusive dots. Below, Kavner demonstrates an exercise for eye-hand-body coordination.





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