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Medicine Catches up with the Sports Boom

humans need to keep the body-machine in trim to achieve a sense of physical and mental well-being



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The article discusses the importance of physical fitness and the role of sports medicine in achieving it. It highlights the issue of sports injuries among children, often due to pressure from parents or coaches, and the mismatch of body types to certain sports. The article introduces Dr. Gideon Ariel's technique of "computerized biomechanical analysis" which can detect subtle elements of pathology that may not be visible to the naked eye. The article also mentions the work of Dr. David L. Costill, who found that caffeine can improve endurance during exercise. The article concludes by discussing the increasing interest in fitness and the role of the American Association of Fitness Directors in promoting health and fitness in the corporate world.

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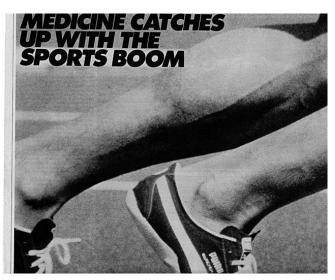
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Below find a reprint of the 3 relevant pages of the article "Medicine Catches up with the Sports Boom" in "The New York Times Magazine":





humans need to keep the body-machine in trim to achieve a sense of physical and mental well-being — and that this can be done by putting it in rhythmic motion as much as possible, in accord ance with one's individual capacity It's quite normal, the experts insist, to begin exercising regularly when you're still a child — and to realize that people over 80 are capable of attaining fitness goals that, only a few years ago, might

Each year, as many as 10 million in juries of all kinds occur among the 25 million to 25 million American children influence to 25 million American children injuries occur because youngstern but been pressured to play contact sports whose colly goal is that of winning Sports actemists say that, too often, whose colly goal is that of winning Sports actemists say that, too often, the capacity in general that are wrent for their body types. But, the expert when it is a superior of the company of the company for their body types. But, the expert when it is a superior of the company of the beforehand that they were engaging in sports for which they were probably use consumed to the company of the conpany of the company of the company of the company one with a lean apprinter's physique is stered toward weight-litting or to extend toward weight-litting or to enter in pushed toward competition in termin of the 100 million of the company of the termin of the 100 million of the company of the stere is the company of the stere is not the company of the company of the stere is not the 100 million of the company of the stere is not the 100 million of the company of the stere is not the 100 million of the company of the stere is not the 100 million of the company of the stere is not the 100 million of the company of the stere is not the 100 million of the 100 million of the stere is not the 100 million of the 100 million of the stere is not the 100 million of the 100 million of the stere is not the 100 million of the 100 million of the stere is not the 100 million of the 100 million of the stere is not the 100 million of the 100 million of the stere is not the 100 million of the 100 million of the stere is not the 100 million of the 100 million of the stere is not the 100 million of the 100 million of the stere is not the 100 million of the 100 million of the stere is not the 100 million of the 100 million of the stere is not the 100 million of the

Midden pathology, too, can compour the basic error of matching a particular physique with an unsuitable sport. D Gldcon Ariel, who directs research f. Cillities in both Amberst, Mass, and La Angeles, has spent most of the past de ade developing a technique calle "computerized biomechanical anal sis," which is able to pick up more su the elements of pathology than it hanked eye — or even the X-ray plate-

can detect.

Dr. Ariel and his staff, studying a letes like marathoner Bill Rodgers members of the Balla Cowbeys [ball team, use computerated inst ball team, use computerated inst forces and ball team, use computerated inst forces and produced to the staff of the s



interest in sports or fitness. For example, thanks to research physiologic David L. Costill, office workers all own statements of the control of the control

tending the duration of the exercise by you do be point that, without the coffer you do be point that, without the coffer in The 1,000 members of the America Association of Fitness Directors; Bustless and Industry have been usin the control of the complexes of the association of Fitness Directors; to 6.00 corporate members thinkin about dies, arshold, stress, physical about dies, archive the physical archive the control of the stress of t

The number of runners and joggers he United States has soared from a estimated 25 million in 1977 to 30 millio oday; every third pair of shoes sold gram. With a passing grade, says Dr. Cooper, the candidate for fitness should expect to set aside three months for proper conditioning, starring with 15 enough to get the pulse rate up to 60; propered of maximum (200 minus your agp) — on alternate days, and Even after passing a stress test and achieving appropriate fitness goals, and the start of the cooper of the

of the role of lactic acid — the troubling byproduct of combustion in exercising muscles that brings on fatigue. Lactic acid is the byproduct of the partial burning of glycogen (the form in which carbohydrate as a fuel is stored in muscle tissue) in the exercising muscle. A crude analogy is the buildup of the deposits on automobile soark plaus and