

Ariel Dynamics Inc. Media Library - Video

Weekend Athlete



Code adi-vid-01065

Title Weekend Athlete

Subtitle Physical Traning for Health and Fitness

Description ...

Subject Performance Analysis

Duration 00:03:14

URL https://arielweb.com/videos/play/adi-vid-01065

Date 1979-01-01 00:00:00

Label Approved **Privacy** Public

Synopsis

Dr. Kenneth Cooper, founder of the aerobic center in Dallas, Texas, has been working over the past two decades to legitimize the use of exercise in preventing cardiovascular disease. His research has found that a well-planned exercise program is a crucial part of preventive medicine and that fitness level is the best predictor of heart disease.

Dr. Gideon Ariel, director of research at the Kota Research Center in Los Angeles, has spent the last decade developing computerized biomechanical analysis techniques to quantify human movement. These techniques involve high-speed films of motion, which are then traced into the computer as stick figures. The resulting biomechanical principles can be applied to optimize movement and minimize injury risk in any activity.

One example of this is the analysis of a volleyball spike. The force vectors at the joints should be parallel as the arm moves toward impact. However, in a player with tennis elbow, the force vectors are not parallel, creating a sheer force on the elbow. This can generate a hundred times the force of throwing something. To treat this, the player will be prescribed a series of forearm strengthening exercises before returning to play. The goal is to create a training program tailored to the individual that will improve conditioning without overuse.

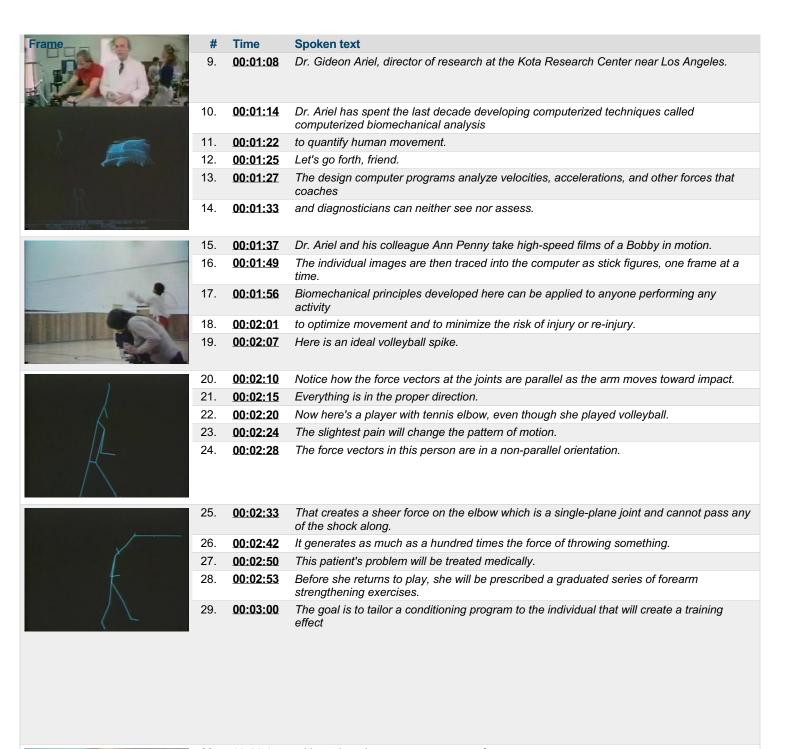
Model Id: gpt-4-0613

Created on: 2023-09-19 01:29:01 Processing time: 00:00:20.1280000

Total tokens: 710

Audio transcription

Frame	#	Time	Spoken text
A.	0.	00:00:00	Evidence of the Buhlman Sports Activities is everywhere.
	1.	00:00:17	Bill, your heart rates about 130 to 130.
	2.	00:00:28	Dr. Kenneth Cooper is founder and director of the aerobic center in Dallas, Texas.
	3.	00:00:33	Over the past two decades, the use of exercise to help prevent cardiovascular disease has been in a state of transition
	4.	00:00:40	from unfounded fatties of the scientific legitimacy.
	5.	00:00:43	Our goal has been to help that transition, and our basic hypothesis is very simple.
	6.	<u>00:00:49</u>	A carefully planned and executed exercise program is an important aspect of preventive medicine.
	7.	00:00:55	We found that fitness level was the single best predictor of heart disease.
	8.	00:01:01	Let's look on the vector forces now at the race and at the elbow in the shoulder.





00:03:05 without the adverse consequences of overuse.

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