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Newsweek



Code	adi-vid-01121
Title	Newsweek
Description	...
Subject	Performance Analysis
Duration	00:01:49
URL	https://arielweb.com/videos/play/adi-vid-01121
Date	2013-01-16 15:40:40
Label	Approved
Privacy	Public

Dr. Gideon Ariel's Biomechanical Analysis

Dr. Gideon Ariel, renowned for his impressive track record in biomechanical analysis, was summoned by Jimmy Connors to Palm Springs for assistance during a tournament. Ariel's approach involves optimizing the human body's movement sequence and measuring all relevant parameters to enhance performance.

The process begins with capturing high-speed film of the athlete in action, which is then fed into a computer for detailed analysis. This method can detect minute deviations that may significantly impact performance.




In Connors' case, he sought help with his feet and ankles. Ariel is now designing a special pair of shoes to reduce stress and potentially extend Connors' career.

Ariel's expertise has also benefited Olympic gold medalist Al Order, who recently made his best discus throw at age 44. Ariel's data-driven approach allows for the creation of ideal conditions for athletes, potentially enabling them to break records.

Model Id: gpt-4-0613
Created on: 2023-09-19 02:02:42
Processing time: 00:00:15.6320000
Total tokens: 627

Audio transcription

Frame	#	Time	Spoken text
	0.	00:00:00	<i>Dr. Gideon Ariel's track record is already so impressive that Jimmy Connors summoned him to Palm Springs for help in the middle of a tournament.</i>
	1.	00:00:07	<i>Me out to know what they're doing and they can correct what's been a problem in the past.</i>
	2.	00:00:12	<i>Biomechanical analysis detects deviations which are too small to see, but that affect performance dramatically.</i>
	3.	00:00:18	<i>Basically what we try to do is to optimize the human body to provide an actual sequence of the movement and measure all the parameters</i>
	4.	00:00:27	<i>that help in guy like Jimmy Connors to serve better or like all over the shoulder discus father.</i>
	5.	00:00:32	<i>Dr. Gideon Ariel's track record is already so impressive that Jimmy Connors summoned him to Palm Springs for help in the middle of a tournament.</i>
	6.	00:00:40	<i>The first step was to get high-speed film of Connors in action.</i>
	7.	00:00:43	<i>Then every move was fed into a computer for analysis.</i>
	8.	00:00:46	<i>I see it knows what he's doing so that's what I need.</i>
	9.	00:00:48	<i>I need somebody to help me out that knows what they're doing and they can correct what's been a problem in the past.</i>

Frame	#	Time	Spoken text
	10.	00:00:54	<i>And as I get older it's going to get nothing but tougher so any advantage that you can get is good.</i>
	11.	00:01:00	<i>It turned out that Connors was looking for help with his feet and ankles, so Ariel is now working to design a special pair of shoes to minimize stress and hopefully prolong Connors career.</i>
	12.	00:01:10	<i>It's not what you see here that make the difference.</i>
	13.	00:01:13	<i>It's really the data that generate that. The force, you cannot see forces.</i>
	14.	00:01:18	<i>With Ariel's help, Olympic gold medal winner Al Order just made the best discus throw of his life at age 44.</i>
	15.	00:01:24	<i>So we can actually manipulate and create the ideal situation here, see how it changed, and based on our information there's no reason why you can't break the whole record today.</i>
	16.	00:01:35	<i>All I gotta do is do it.</i>
	17.	00:01:37	<i>That's us. What I have to do, but I have to do it.</i>
	18.	00:01:40	<i>Wonder when they'll build a computer that can throw the discus.</i>
	19.	00:01:44	<i>I'm Terry Byrne.</i>
	20.	00:01:46	<i>Yeah, that's last.</i>

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Video filename: **adi-vid-01121-newsweek-256kbps.mp4**

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