Space	COMMUNI ⁻ Science	TY NEWS Technology	VIDEO Health	IMAGES General	SPACE Sci-fi & G	SCIENCE	TECH dities	I HEALTH	EDUCATIC Business	Politics	SHOP SEducation	SITEMAP Entertainmen	t Sports	SEARCH
E-ma	ail Print	: Comme	ent F	Font Size	Digg	del.icio.us	5	Discuss article	Buz	z up! It!	Stumble			Ma
	1.25		N.A.	R.	How H	gh Car	ח A C	limber	Go?				13	190
				P	Posted on: Sa	aturday, 9 Jai	nuary 20	10, 08:35 CST						· ,
-	The maximum time an athlete is able to continue climbing to exhaustion may be the only determinant of his/her performance. A new European study, led by researchers from the University of Granada, the objective of which is to help trainers and climbers design training programs for this type of sport, shows this the trainers and climbers design training programs for the type of sport, shows this the trainers and climbers design training programs for the type of sport, shows this type of sport, shows the sport s							led by to help	(H)	اوري سروي				
	be the case.							84863040	Year, New You 010, 10:00 am					
and grip of amate						il now, performance indicators for climbing have been low body fat percentage I grip strength. Furthermore, existing research was based on the comparison Imateur and expert climbers. Now, a new study carried out with 16 high-level							itter May Hold th	e Cure for
	Downlo	oad full size im	age	c	climbers breaks with this approach and reveals that the time it takes for an athlete to become exhausted is the only indicator of his/her performance.						Co:	010, 8:56 am smetic Surgeons	s Making	
Vanesa España Romero, the main author of the work and researcher at the University of Granada explains to SINC how "these findings could help trainers or athletes in the design of sport climbing training programs so that Spain can continue to lead the way in this sporting activity throughout the world".											Jan 9, 20	Housecalls Jan 9, 2010, 8:00 am In Children With Insomnia May Have Stomach Problems		
The study, published in the European Journal of Applied Physiology, analyses the physiological parameters that determine performance in this sport at its highest level. The participants, eight women with an average rating of 7a (the scale of difficulty of a											010, 8:00 am w Year, New Yo	u		
climbing route is graded from 5 to 9, with sub-grades of a, b and c) and eight men with an average rating of 8a, were divided into an "expert group" and an "elite group".									010, 6:52 am yground Safety	Rules Rethoua				
The researchers assessed the climbers with body composition tests (weight, neight, body mass index, body fat %, bone mineral density, and bone									Jan 9, 20	010, 5:14 am ly 50% of Childro	-			
mineral content), kinanthropometry (length of arms mineral density and bone mineral content of the fo fitness tests (flexibility, strength of the upper and lo capacity measured at a climbing center).					nds and fin m), and phy	gers, bone /sical		Cisco (VC)	8	200 - Regi ount Code: Of			rs Get Help	
The results show there to be no significant differer elite climbers in any of the tests performed, excep exhaustion and in bone mineral density, both of w elite group. "Therefore, the maximum climbing tim athlete is the sole determinant of performance", th					t in climbing time to hich were higher in the e to exhaustion of an						pharmatest Preclinical contract research			
						-	0				- 4x			vices in
athlete	anding and ve	ertical practice	Э				S		Why attend		e agenda	-	NE BIOL	000

The most important research relates to energy consumption (ergospirometry, heart rate and lactic acid blood concentrations), the designation of maximum strength and local muscular resistance of climbers (dynamometry and electromyography), and to establishing anthropometric characteristics.

According to experts, a fundamental characteristic of sport climbing is its "vertical dimension", making it unique given its postural organization in space, and from a physiological point of view, the effect a gravitational load has on movements.

In short, to complete a climb successfully, athletes should maintain their effort for as long as possible to improve their chances of reaching the ultimate goal.

References: Vanesa España-Romero, Francisco B. Ortega Porcel, Enrique G. Artero, David Jiménez-Pavón, Ángel Gutiérrez Sainz, Manuel J. Castillo Garzón y Jonatan R. Ruiz. "Climbing time to exhaustion is a determinant of climbing performance in high-level sport climbers". European Journal of Applied Physiology (2009) 107:517-525, noviembre de 2009.



CANCER METASTASIS MODELS

IN VITRO EFFICACY ASSAYS

FAST, FLEXIBLE, UNIQUE

Image Caption: There are two forms of climbing: the sport (left) and classical (right). Credit: SINC / Col. John Corcuera (left) and Romero et al (right).

On the Net:

FECYT - Spanish Foundation for Science and Technology European Journal of Applied Physiology

More News in this Category

Related Articles



www.pharmatest.fi Ads by Google

Related Videos

Bears Offer Clues to Keeping Healthy Bones New Approach to Rebuilding Bones

http://www.redorbit.com/news/sports/1807006/how_high_can_a_climber_go/

