

Associação Distrital de Atletismo

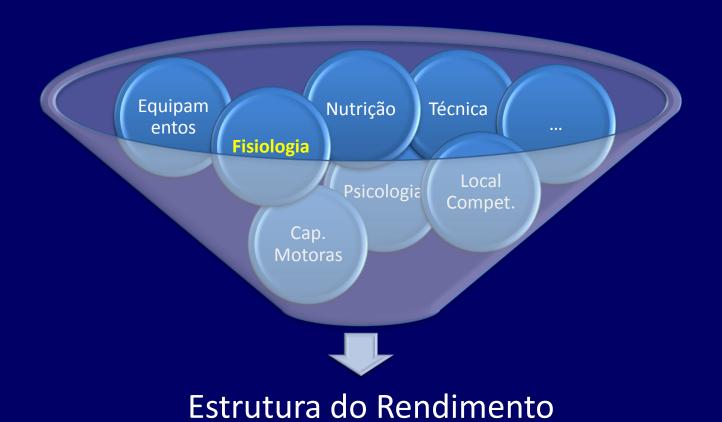
Leiria





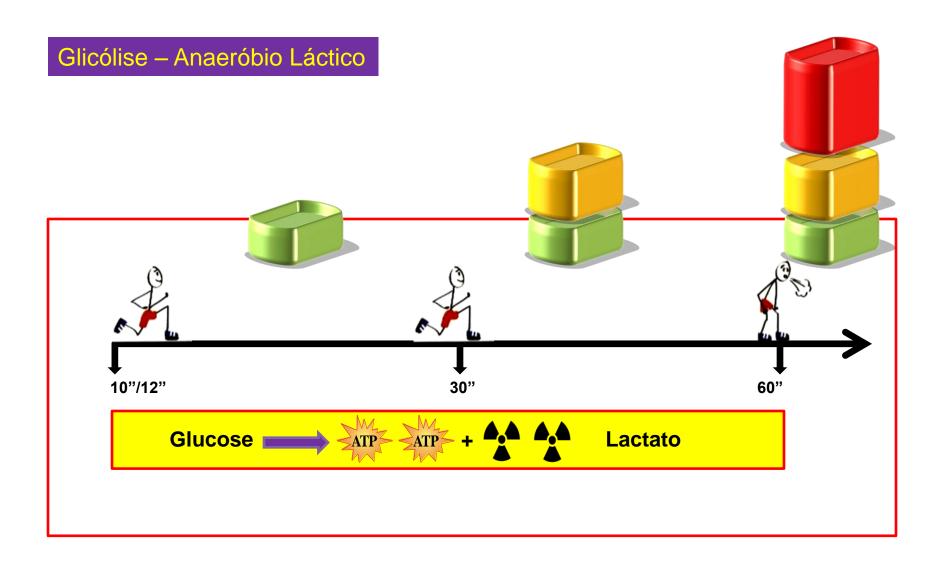
João Cruz (20111112) joaocruz@ipleiria.pt

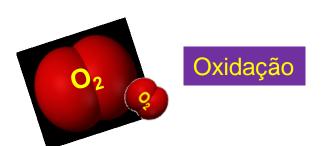




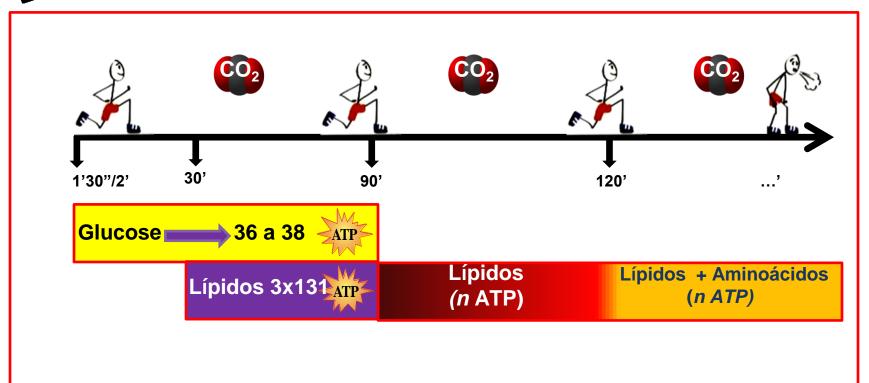
Sistema Energéticos



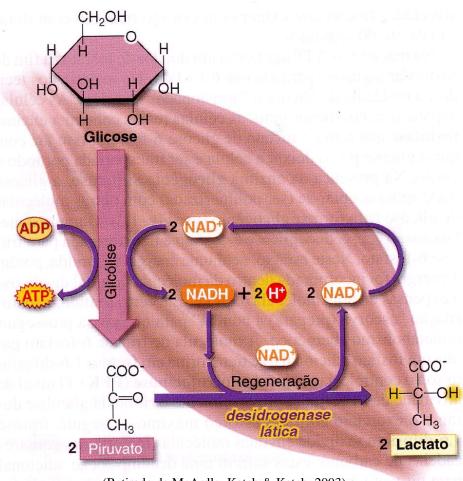






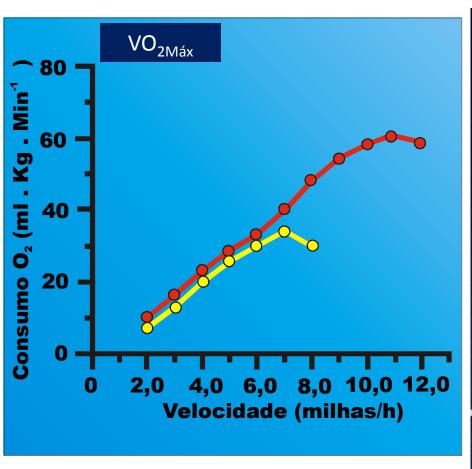


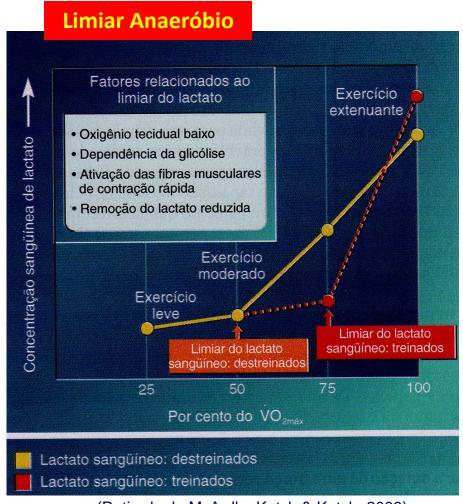
Aeróbio ou Anaeróbio Lático?



(Retirado de McArdle, Katch & Katch, 2003)

VO_{2Máx} e Limiar Anaeróbio





(Retirado de McArdle, Katch & Katch, 2003)

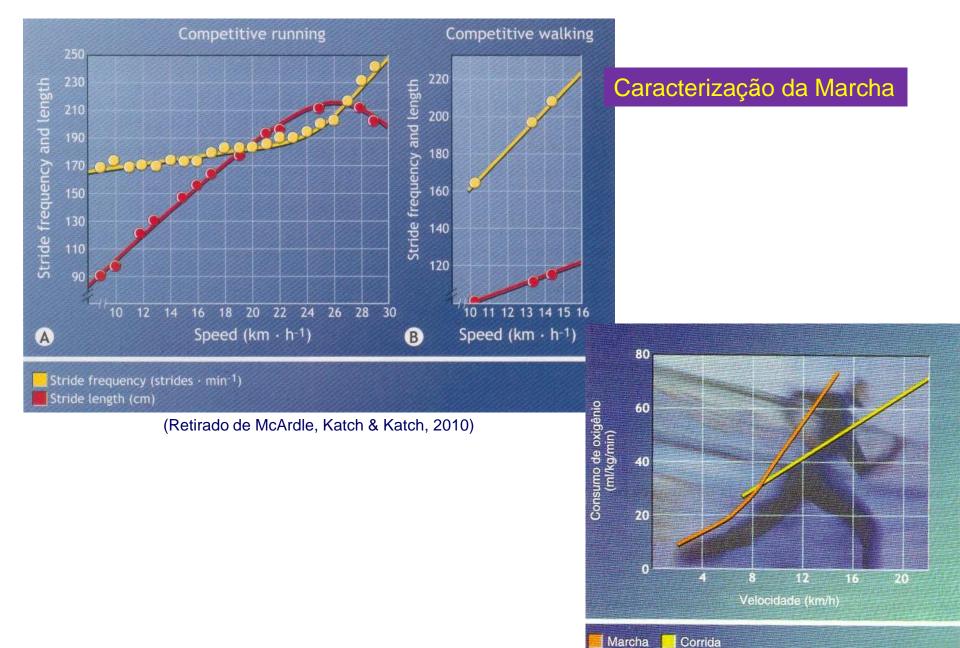
World Outdoor Records - Women

		Warran		
		Women		Cara
Discipline	Perf	Wind Athlete	DOB	Nat
10,000 Metres Race Walk	41:56.23	<u>Nadezhda Ryashkina</u>	22/01/1967	URS
20,000 Metres Race Walk	1:26:52.3	Olimpiada Ivanova	26/08/1970	RUS
20 Kilometres Race Walk	1:25:08 *	<u>Vera Sokolova</u>	08/06/1987	RUS

World Outdoor Records - Men

Men				
Discipline	Perf	Wind Athlete	DOB	Nat
20,000 Metres Race Walk	1:17:25.6	<u>Bernardo Segura</u>	11/02/1970	MEX
20 Kilometres Race Walk	1:17:16	<u>Vladimir Kanaykin</u>	21/03/1985	RUS
30,000 Metres Race Walk	2:01:44.1	<u>Maurizio Damilano</u>	06/04/1957	ITA
50,000 Metres Race Walk	3:35:27.2	<u>Yohan Diniz</u>	01/01/1978	FRA
50 Kilometres Race Walk	3:34:14	Denis Nizhegorodov	26/07/1980	RUS

Fonte: www.iaaf.org

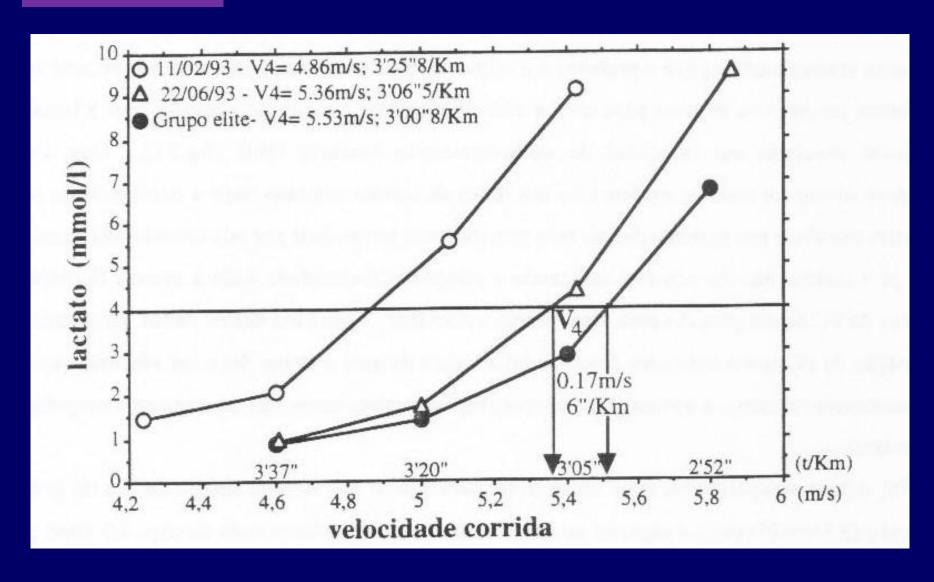


(Retirado de McArdle, Katch & Katch, 2003)

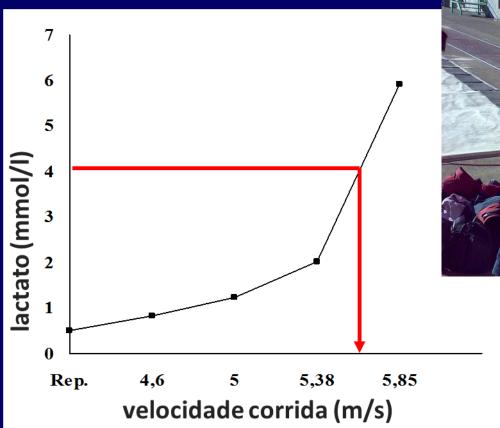
Caracterização da Marcha

	v-20 km (km·h ⁻¹)	VO _{2max} (I·min ⁻¹)	VO _{2max} (ml·kg ⁻¹ ·min ⁻¹)	v-VO _{2max} (km·h ⁻¹)	LTP (mmol·l ⁻¹)	v-LTP (km·h ⁻¹)	VO ₂ at LTP (ml·kg ⁻¹ ·min ⁻¹)	Fraction of VO _{2max} at LTP (%)	Race walking economy (ml O ₂ ·kg ⁻¹ ·km ⁻¹ at 12 km·h ⁻¹)
♂ Mean	13.2	5.0	70.1	14.8	2.8	13.4	62.0	87	258.1
± SD	0.6 (<i>n</i> =17)	0.5 (<i>n</i> =16)	8.2 (<i>n</i> =16)	1.0 ($n=17$)	0.9 $(n=17)$	0.8 $(p=17)$	6.2 (<i>n</i> =14)	6 (n=13)	24.3 (<i>n</i> =15)
♀ Mean	11.1	3.1	56.7	12.9	2.9	11.8	50.6	89	257.8
± SD	0.6 (<i>n</i> =12)	0.6 (<i>n</i> =12)	7.3 (<i>n</i> =12)	0.7 $(n=12)$	1(3 (n=12)	0.5 $(n=12)$	8.9 (<i>n</i> =12)	8 (n=12)	44.9 (<i>n</i> =11)
♂♀ Mean	12.3	4.2	64.8	14.0	3.0	12.8	57.3	89	258.0
± SD	1.2	1.1	10.5	1.3	1.1	1.0	9.4	7	33.7

Limiar Anaeróbio







Inten- sity Symbol	Training for:	Duration of Reps.	# of Reps.	R.I.	Ratio Work/ R.I.	LA Conc. (mM)	HR	% of Maximal Intensity	
								early	late
1	Lactic Acid Tolerance Training (LATT)	30" -60" 2' -2.5"	2x2-4 4-6 (8)	30°	1:2-1:3	12-18 Mx=20	Near Mx. or Mx.	>85	>95
2	Maximal Oxygen Consumption Training (MVO ₂ T)	3-5'	4-8(12)	2-3'	2:1	6-12	180	80-85	85-90
3	Anaerobic Threshold Training (AnTT)	1:30 -7' h 8' -1	3-5 1-2	1-2'	1:1	4-6	150-170	75-85	85-90
4	Phosphate System Training (PST)	4-15"	10-30	1-3'	1:4-1:25	()		+	95
5	Aerobic Threshold Training (ATT)	10' -2 h	6-1	1-2'	1:1-1:.2	2-3	130-150	>60	>60

Figure 109. Suggested guidelines for training the <<five intensities>> of the energy systesm (" represents seconds, ' minutes, and h hours).

(Retirado Bompa, 1990)



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Leiria





Obrigado pela atenção e pelo que fazem por Portugal!