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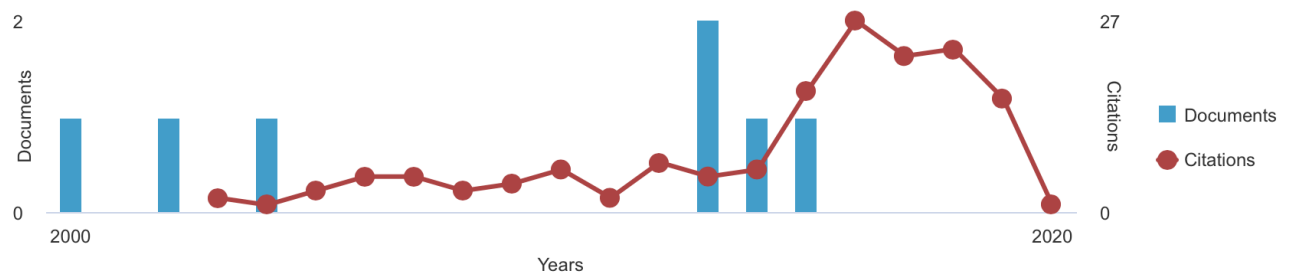
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Eur J Appl Physiol (2004) 91: 399–405
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ORIGINAL ARTICLE

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Eur J Appl Physiol (2013) 113:1395–1403
DOI 10.1007/s00421-012-2559-6

ORIGINAL ARTICLE

Muscle–tendon interaction and EMG profiles of world class endurance runners during hopping

K. Sano · M. Ishikawa · A. Nobue · Y. Danno ·
M. Akiyama · T. Oda · A. Ito · M. Hoffrén ·
C. Nicol · E. Locatelli · P. V. Komi

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Eur J Appl Physiol (2015) 115:849–859
DOI 10.1007/s00421-014-3067-7

ORIGINAL ARTICLE

Can measures of muscle–tendon interaction improve our understanding of the superiority of Kenyan endurance runners?

Kanae Sano · Caroline Nicol · Masanobu Akiyama ·
Yoko Kunimasa · Toshiaki Oda · Akira Ito ·
Elio Locatelli · Paavo V. Komi · Masaki Ishikawa

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DOI 10.1007/s00421-012-2573-8

ORIGINAL ARTICLE

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Carine Bret · Jean-René Lacour · Muriel Bourdin ·
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Scand J Med Sci Sports 2014; 24: e269–e274
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Specific muscle–tendon architecture in elite Kenyan distance runners

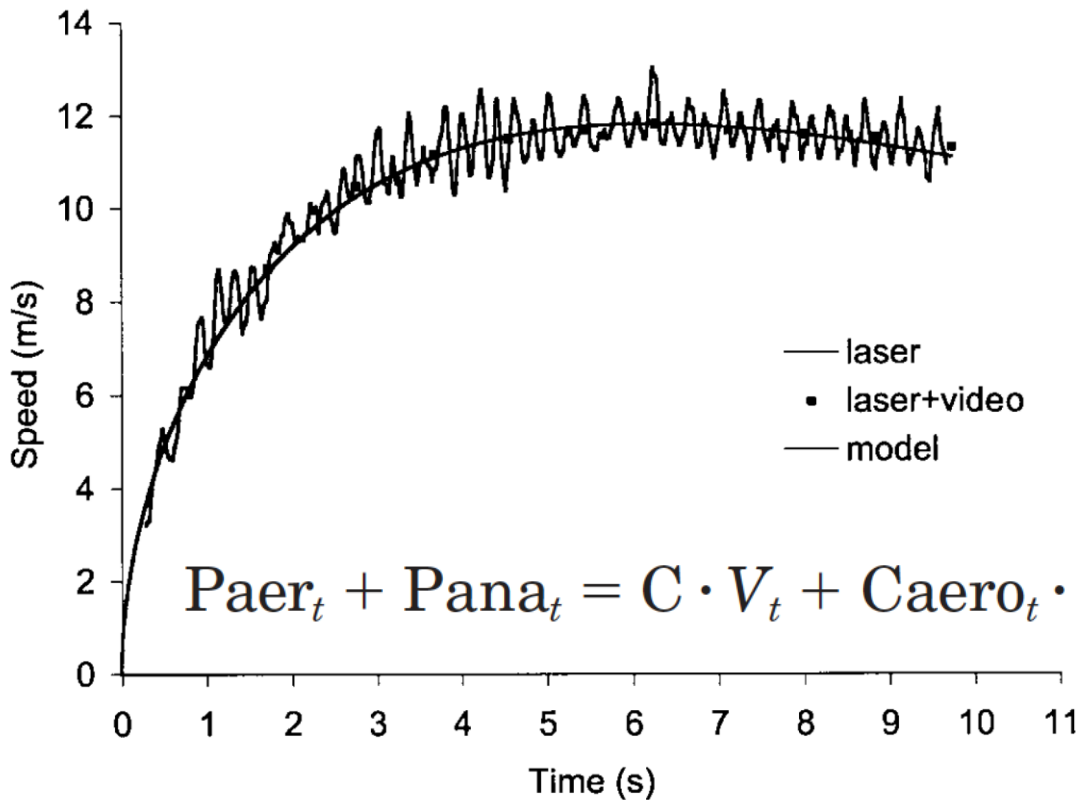
cit. 29

Y. Kunimasa¹, K. Sano¹, T. Oda², C. Nicol³, P. V. Komi⁴, E. Locatelli⁵, A. Ito¹, M. Ishikawa¹

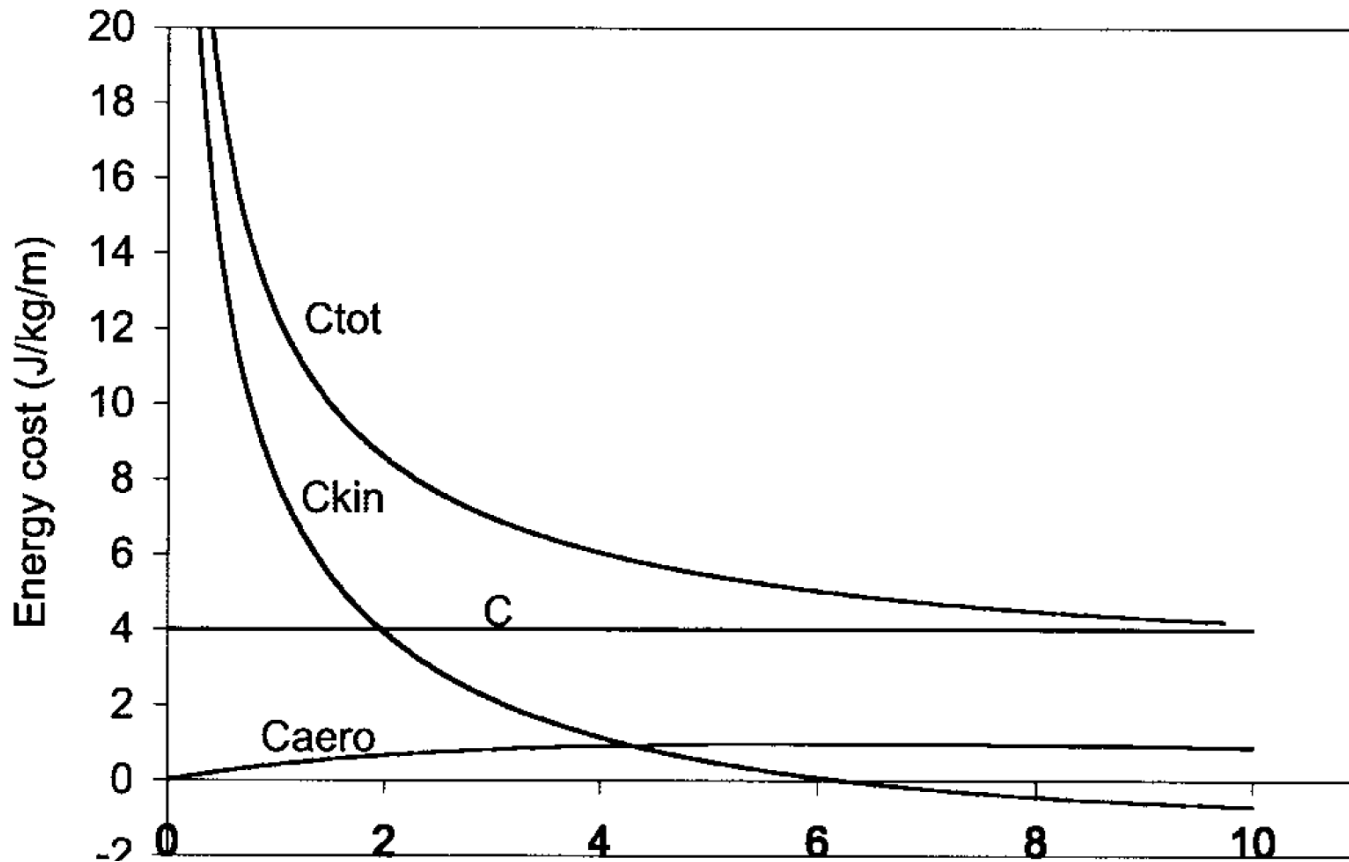
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Modeling the energetics of 100-m running by using speed curves of world champions

$$E_{aer} \cdot t^{-1} + E_{ana} \cdot t^{-1} = C \cdot V + C_{aero} \cdot V + C_{kin} \cdot V \quad (1)$$



$$P_{aer_t} + P_{ana_t} = C \cdot V_t + C_{aero_t} \cdot V_t + \Delta E_{kin} \cdot \Delta t^{-1}, \quad (2)$$



	Supply				Demand		
	aer, J/kg	ana, J/kg	Pmax, W/kg	τ_2 , s	C, J/kg	Caero, J/kg	Ckin, J/kg
	<i>MWC</i>						
Model V_t	30 (5%)	607 (95%)	90.7	12.1	400 (63%)	83 (13%)	154 (24%)
Model d/t	30 (4%)	654 (96%)	109.3	9.2	400 (58%)	73 (11%)	211 (31%)

The success of Kenyan runners...

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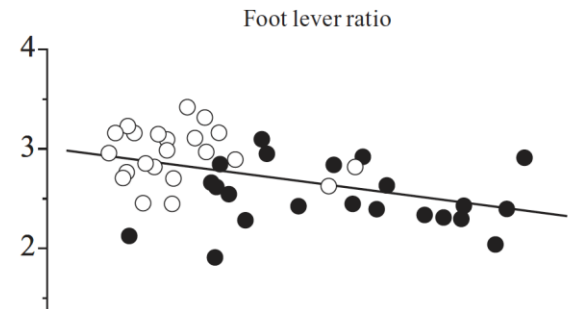
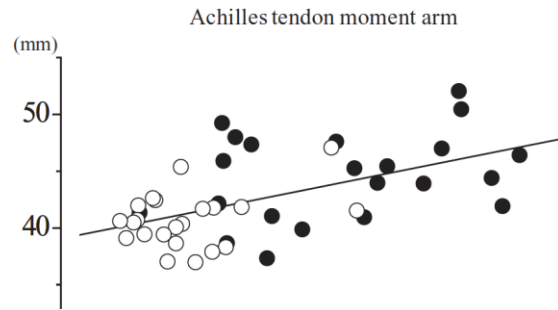
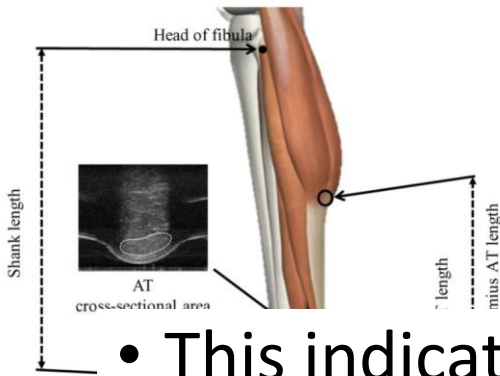
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Specific muscle–tendon architecture in elite Kenyan distance runners

Y. Kunimasa¹, K. Sano¹, T. Oda², C. Nicol³, P. V. Komi⁴, E. Locatelli⁵, A. Ito¹, M. Ishikawa¹

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● Kenyans
○ Japanese
1300

- This indicates that elite Kenyan runners may be expressed as unique musculo-tendinous structural characteristics.
- This emphasizes the need for additional examination of the neuromuscular–tendon interaction during endurance running

