

Achilles tendinopathy is a common cause of posterior heel pain in the athletes and is often difficult to treat

Intrinsic factors

- abnormal range of motion of the subtalar joints
 - hyperpronation syndrome
 - leg length discrepancy

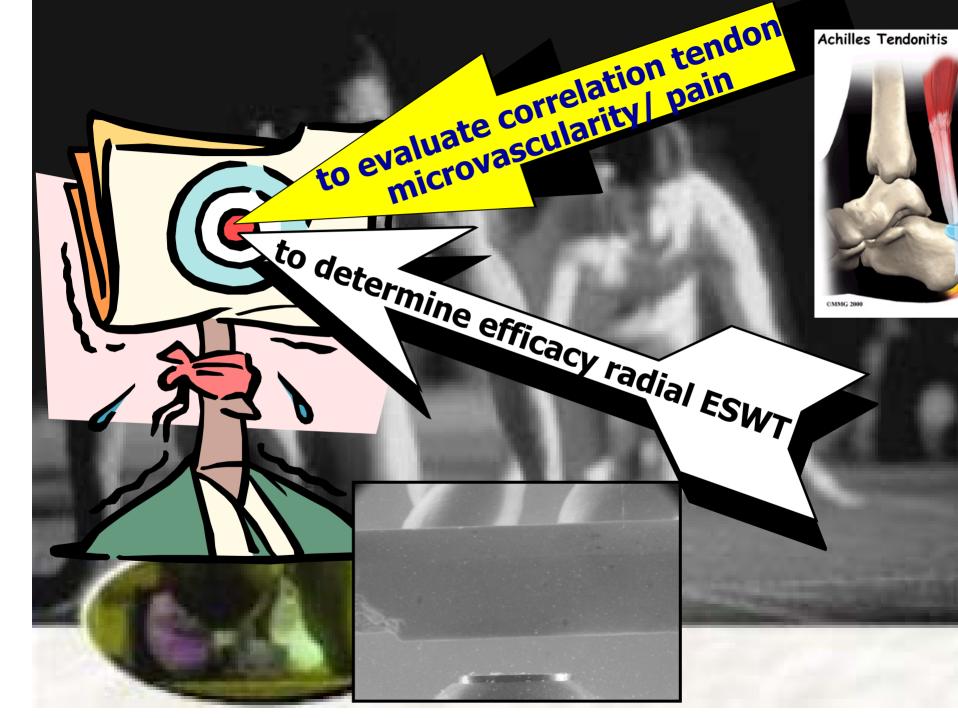
Extrinsic factors

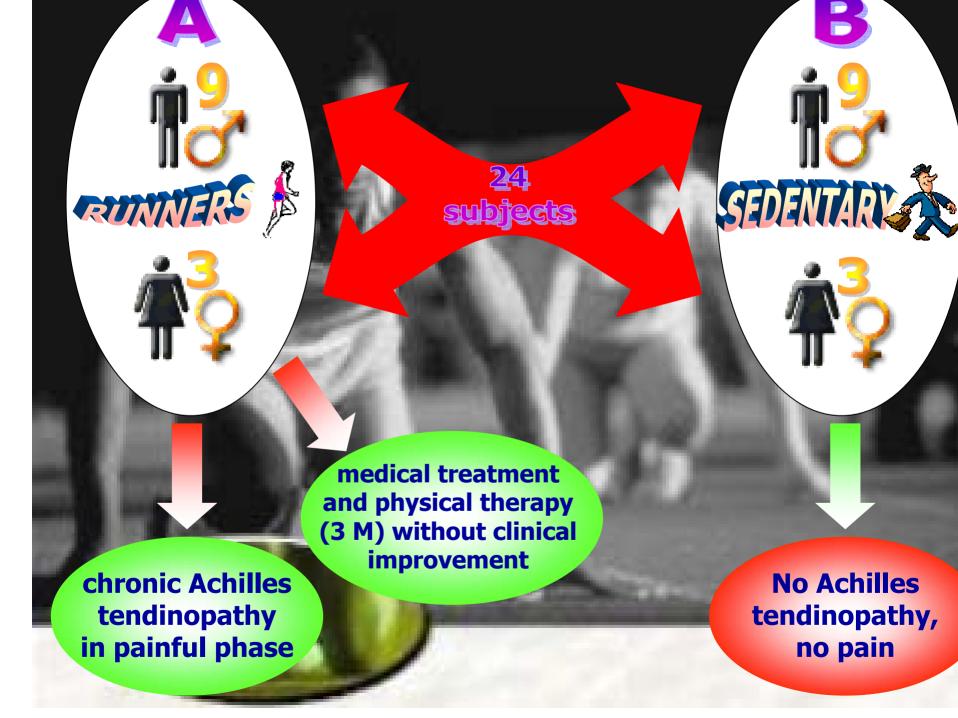
- training errors
- excessive mechanical overload
 - advanced age
 - fatigue
 - obesity

Kolodziej et, 1999; Myerson et al, 1999; Nigg et al, 2001











METHODS

✓ informed consent



TO SEDENTARY

✓ clinical examination



0 VAS 10 direct palpation of the tendon as well as pain during ambulation

lov identical echographic evaluation with Color Doppler, iss Do provided by a single operator, using a Toshiba Power 100 sh Vision 9000 device with 7.5 mhz sound



hypoeci

All subjects were asked to refrain from athletic activities and allowed only to walk normally during the treatment phase. A return to normal activities was allowed for all subjects one month after the end of the treatment.

vascularization



RESULTS



In group A we observed a normalization of microvascularity in 58.3 % of group A subjects (7 out of 12) at one month and 83.3 % (10 out of 12) at six months. No significant differences in the microvascularity of group B subjects



before treatment

SN

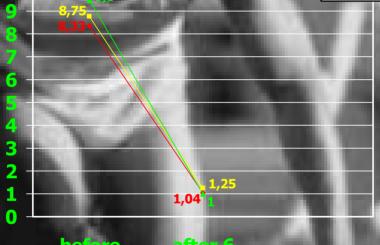
after 6 months

RESULTS





	Variable	Obs	Mean	Std. Err.	Std. Dev.
	pre post	12 12	8.333333 1.041667	.2071939 .3165769	1.096655 .7177406
	diff	12	7.291667	.3766797	1.304857
n st	pre post	12 12	8,75 1,25	.1896967 .3964807	1.37345 .6571287
	diff	12	7,5	.3077287	1.066004
in st	pre post	12 12	9,5 1	.1507557 .4351941	1.507557 .522233
	diff	12	8,5	.3793935	1.314257



-local pain

walking painrunning pain

before after 6 treatment months

No significant complication was observed in either treatment group, except for a temporary increase in paratendon edema in three group A subjects, which responded to local cryotherapy.

DISCUSSION

...there is a relationship between tendinopathy and microvascularity, but not between microvascularity and duration of symptoms ..



Radial shock wave therapy for late epicondylitis: a prospective randomis controlled single-blind study.

(Spacca G. et al., Euro Medicophys, 200

Effectiveness of radial shock-watherapy for calcific tendinitis of tendinitis of tendinical study.

(Cacchio A. et al, Phys Ther, 200

