(XIV.) Ergometry

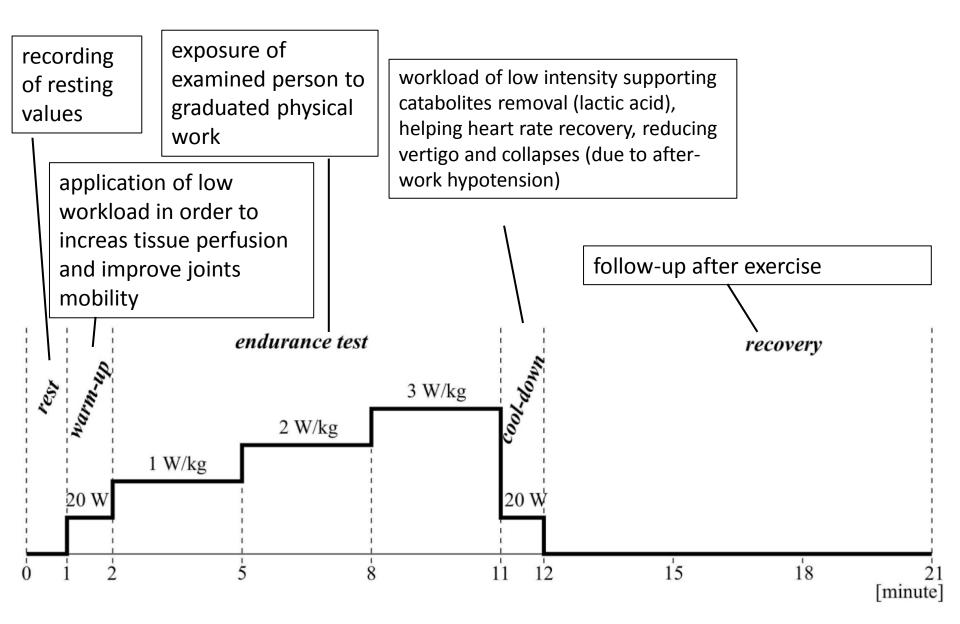
Physiology I - practicals

Ergometry deals with evaluation of performance (work, power).

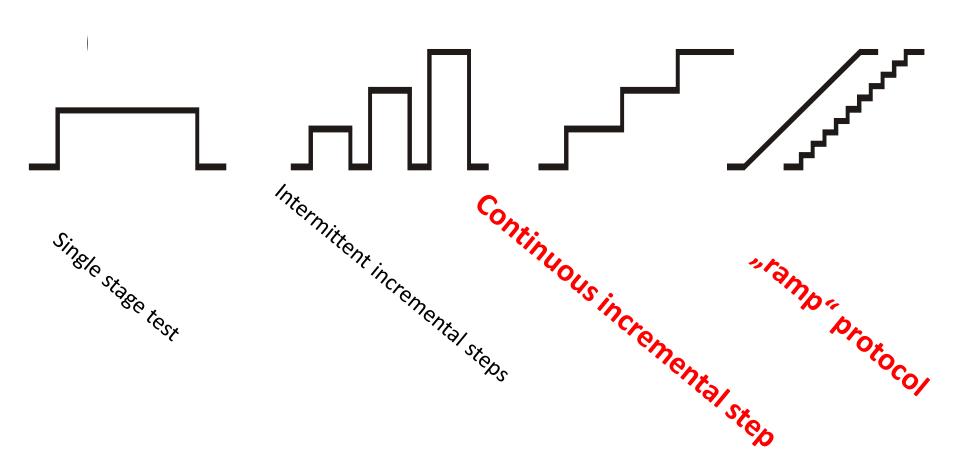
Its name comes from two Greek words: "ergon" = work, "metron" = measure.

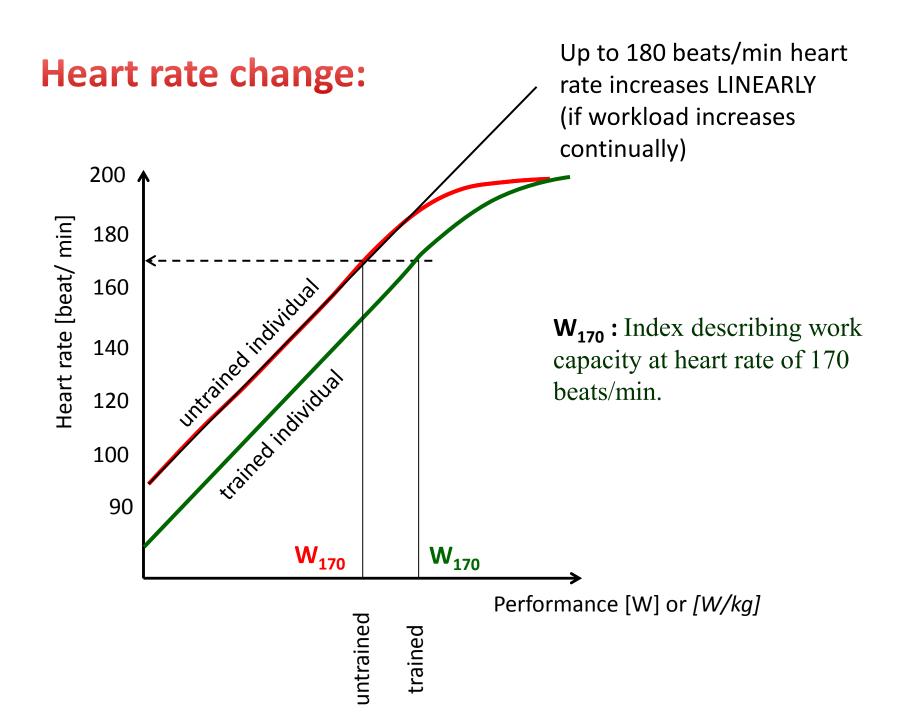
The test is a part of complex examinations evaluating responses and adaptation of organism to exercise. It is used to diagnose, to decide about the treatment and/or evaluation of its effectiveness. In the sport medicine, it is used mainly for evaluation of fitness.

Examination phases:



Basic protocol types:





Heart rate change:

 W_{170} : Index describing work capacity at heart rate of 170 beats/min

Population norms (Heller, 2005)

A G E	Men		Women	
	[W]	[W/kg]	[W]	[W/kg]
18	178	2,7	103	1,8
20	185	2,7	106	1,8
22	190	2,7	107	1,8
25	193	2,7	109	1,8
30	194	2,6	112	1,8
35	195	2,6	115	1,8
40	195	2,5	118	1,8
45	195	2,4	121	1,8