Power and Heart Rate Training Evolution



Power training is the evolution of training with data







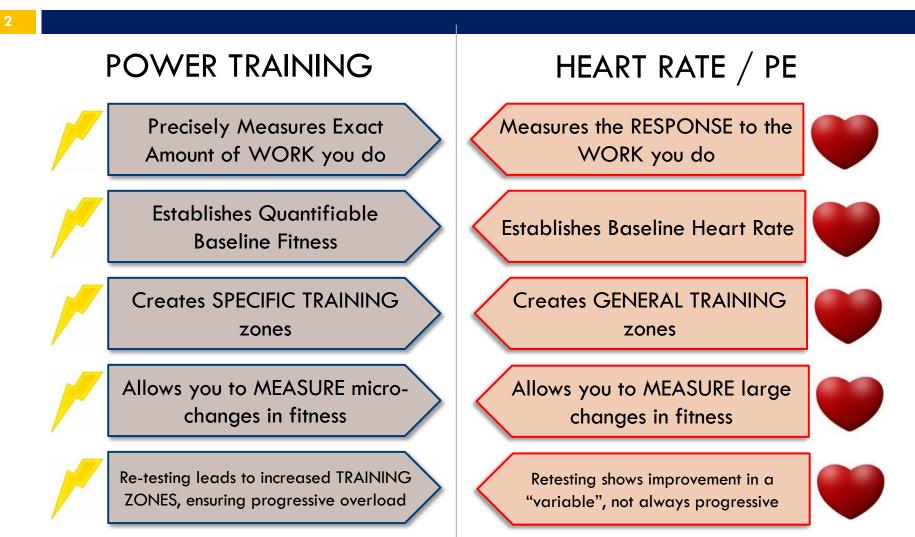


Power Training, Powerful Results

10

Why is Power Training "Evolved"?

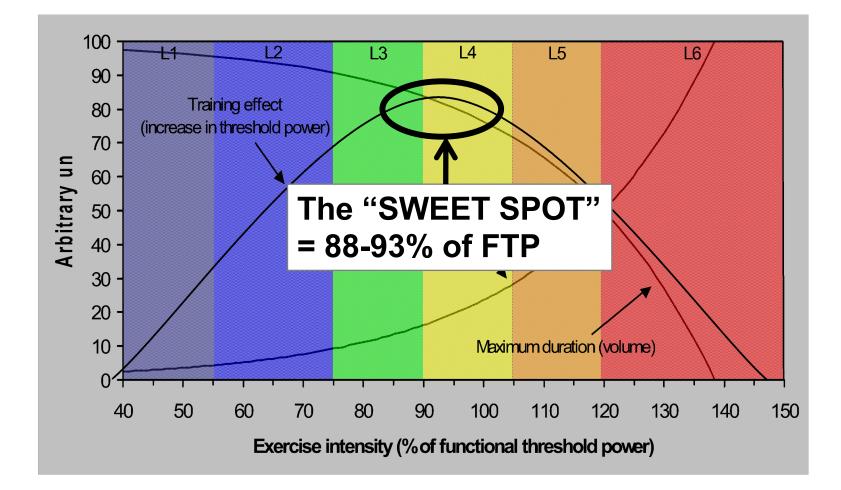




Power Training, Powerful Results

Training Levels Effect

Diagram by Andrew R. Coggan Ph.D.



Expected Adaptation



	Zone 1	Zone 2	Zone 3	Sweet Spot	Zone 4	Zone 5	Zone 6	Zone 7
	Active Recovery	Aerobic Capacity	Tempo	"SST"	Threshold	VO2 MAX	Anaerobic Capacity	Neuromuscula Power
Example Length	30-90 minutes	1- 6 hrs	1-4 hours	0.5 - 3 hours	8-30 minutes	3-6 minutes	1 minute	5-15 seconds
ncreased plasma volume	×	×	XX	xx/xxx	XXX	XXXX	×	×
ncreased mitochondrial enzymes	×	××	xxx	xxx/ xxxx	xxxx	××	×	×
ncreased lactate threshold	×	XX	XXX	xxx/ xxxx	XXXX	XX	×	×
ncreased muscle glycogen storage	×	××	xxxx	хххх/ ххх	xxx	××	×	×
hypertrophy of slow twitch muscle fibers	×	×	××	xx	××	XXX	×	×
ncreased muscle capillarization	×	×	××	xx	××	XXX	×	×
interconversion of fast twitch muscle fibers (type IIb>type IIa)	×	××	xxx	ххх	xxx	xx	×	×
ncreased stroke volume/maximal cardiac output	×	×	××	xx/ xxx	xxx	xxxx	×	×
increased VO2 Max	×	×	XX	xx/xxx	XXX	XXXX	×	×
ncreased muscle high energy (ATP/PCr) stores	×	×	×		×	×	×	××
ncreased anaerobic capacity ("lactate tolerance")	×	×	×		×	×	XXX	×
Hypertrophy of fast twitch libers	×	×	×		×	×	×	XX
ncreased neuromuscular power	×	×	×		×	×	×	XXX

Power Training, Powerful Results