

Reduced volume and increased training intensity elevate muscle Na⁺-K⁺
pump \(\alpha_2\)-subunit expression as well as short- and long-term work capacity
in humans

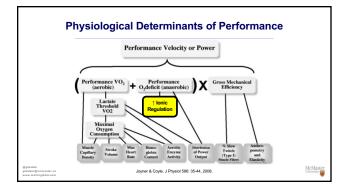
Trained runners added SIT and reduced volume by ~25% for ~2 months

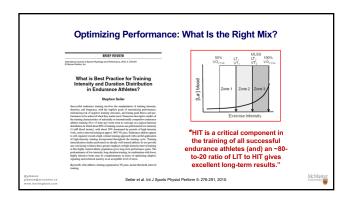
A \(^3\) 3 km run

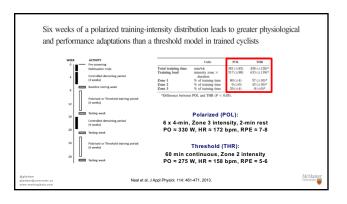
Na^*K^* pump

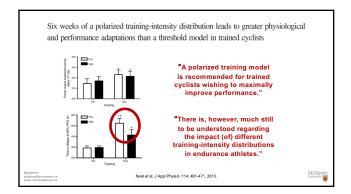
"In already trained subjects, further muscle adaptations can occur and
performance can be improved by adding speed endurance training
(combined) with a reduction in training volume."

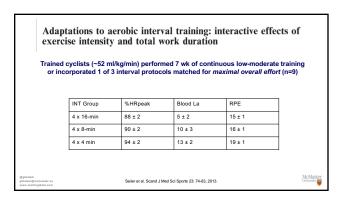
Bangabo et al. J Appl Physici. 107: 1773-1780, 2008.

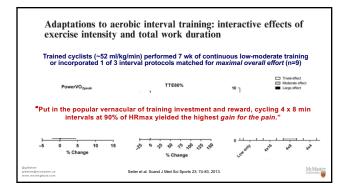


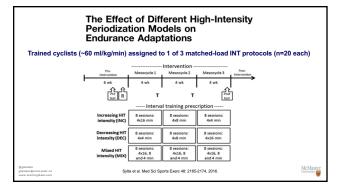


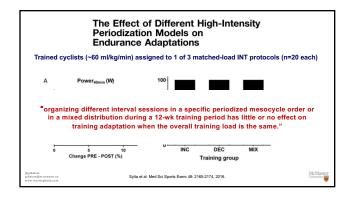




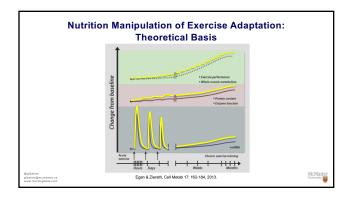


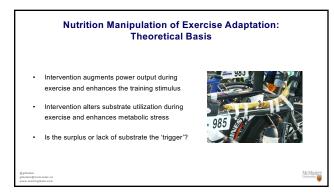


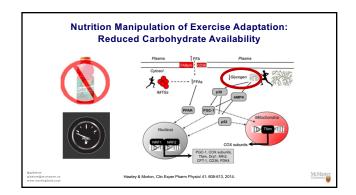


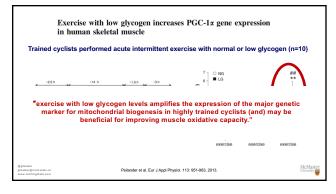


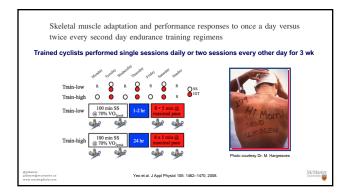


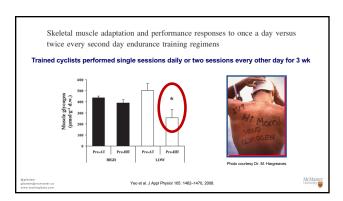


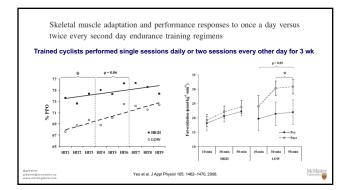


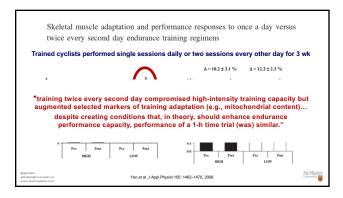


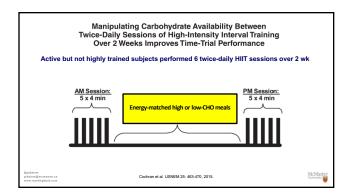


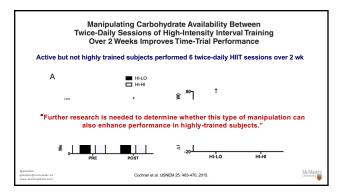












Fuel for the Work Required: A Theoretical Framework for Carbohydrate Periodization and the Glycogen Threshold Hypothesis - Should train-low sessions always be left to low intensity-type sessions or is it the deliberate completion of a high-intensity session (even at the expense of a potential reduction in absolute workload) that is really required to create the metabolic millieu that is conducive to signalling? - What is the minimal CHO intake and glycogen concentration required to facilitate periods of 'train low' without compromising absolute training intensity during specific sessions?

