Optimizing Intensity Balance

How to Maximize Training Results with the 80/20 Principle

Overview

- What is the most effective way to train?
- The 80/20 Rule
- Guidelines for 80/20 Training
- The Counterargument
- Questions



What is the most effective way to train?



3 Major Variables:

Specificity

Volume

Intensity

How the Pros Train (Runners)

- Billat et al, 2001: Portuguese and French runners, 78% of training below marathon race pace
- Billat et al, 2003: Kenyan runners, 85% of training below lactate threshold
- Karp et al, 2005: American runners, 74% of training slower than marathon pace
- Stellingwerf, 2012: Canadian runners, 74% of training at low intensity

How the Pros Train (Other Endurance Athletes)

- Mujika et al, 1995: French swimmers, 77% of training at low intensity
- Seiler et al, 2006: Norwegian rowers, 88% of training at low intensity
- Zapico et al, 2007: Spanish cyclists, 74% of training at low intensity
- Mujika, 2012: Spanish triathlete, 83% of training below lactate threshold

How the Pros USED to Train

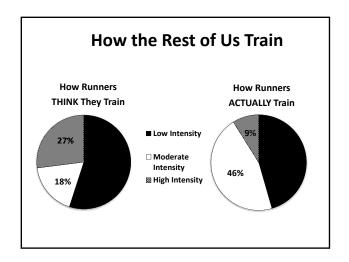
Emil Zátopek

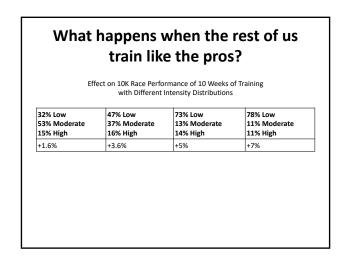
March 7-14, 1955

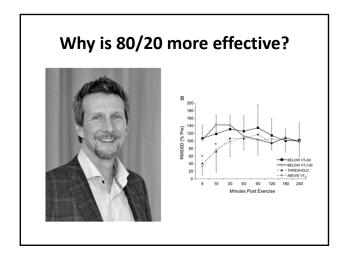
Monday 40 x 400m, 40 x 400m Tuesday 50 x 400m, 40 x 400m Wednesday 50 x 400m, 40 x 400m Thursday 40 x 400m, 40 x 400m

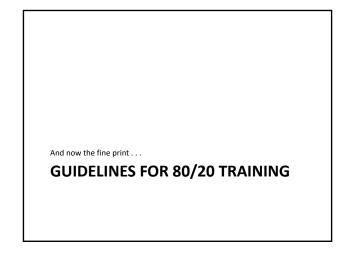
40 x 400m, 40 x 400m Friday 40 x 400m, 40 x 400m Saturday 30 x 400m, 1:00 jog

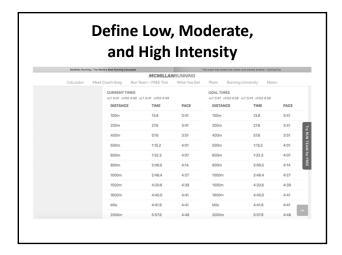
30 x 400m, 1:00 jo Sunday 2:00 jog

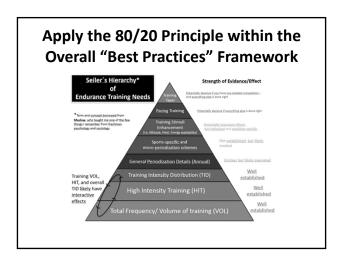












Treat Each Runner Individually

Factors to Consider:

- Specialization
- Experience
- Age
- Strengths
- Weaknesses



Plan, Monitor, Adjust

| Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|-------------------|---|-------------------|-------------------|--|-------------------|---|
| Easy Run 45:00 | Tempo Run 48:00 w/ 28:00 @ LT | Easy Run 45:00 | Easy Run 45:00 | Interval Run 39:00 w/ 3 x 5:00 @ 5K pace | Easy Run 45:00 | Fartlek Run 12 miles w/ 10 x 400m @ LT |







"The fitter I get, the slower my easy runs are."

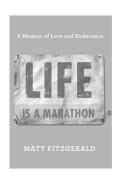
-Aaron Braun 27:41 10,000m runner

Yeah, But I Know a Guy Who...



| Intensity Group | Initial VO _{2max} | Final ÝO₂max |
|--|---|---------------------------------------|
| Moderate | 35.3 ± 7.9 | 38.7 ± 9.1 |
| Vigorous | 33.6 ± 9.0° | 38.4 ± 10.7 |
| Near-maximal | 35.7 ± 6.2 | 42.9 ± 7.3 |
| Control | 37.7 ± 8.7 | 38.4 ± 10.7 |
| Significant increase vers Significantly greater inc | control at baseline using two- sus baseline using two-way ANI rease than control group using rease than moderate group using | OVÁ (P < 0.05). two-way ANOVA (P < |

Questions?



mattfitzgerald.org

8020 endurance.com