

## Runners! Workshop

How To Become Your Fastest And Strongest Runner – From Beginner, To 5K, To Ultra Marathons

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### Why Do YOU Run?

 Recreation? To lose weight? To maintain fitness? Meditation?









 Competition? Want to run faster on a certain distance – 5K, 10K, Half Marathon, Marathon or Ultra Marathon?



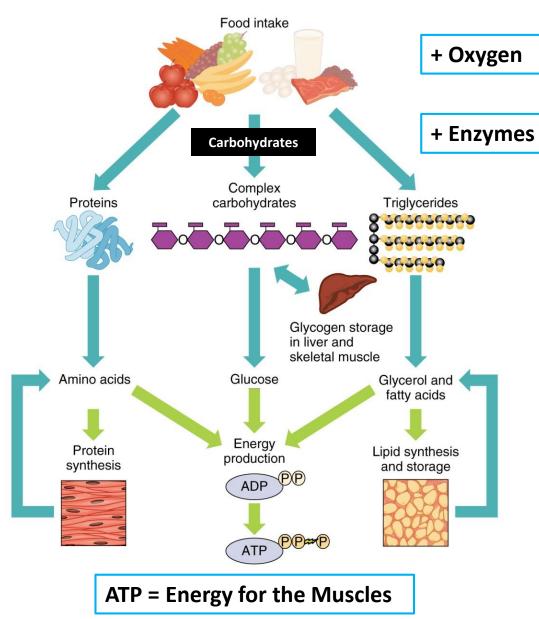
### How To Train To Become YOUR Fastest And Strongest Runner?



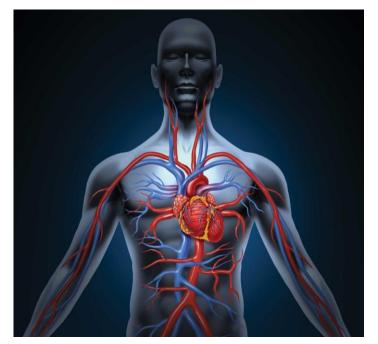


What happens when we run? We do we fatigue?

### How Do We Produce Energy For Running?

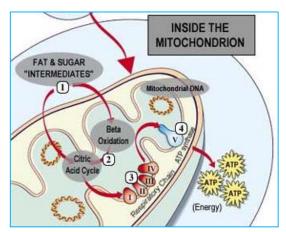


#### **Cardiovascular System**



### **With Training we get:**

- Stronger hearts
- Stronger lungs
- More blood vessels
- More mitochondria
- Better at burning fat to fuel running

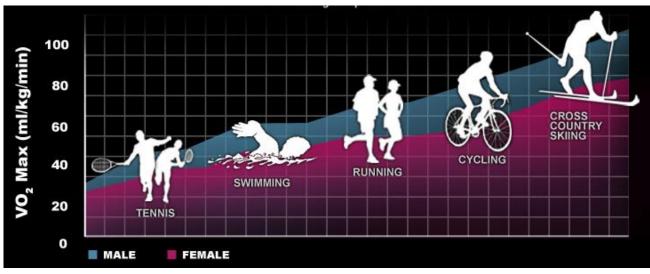


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### With Training We Become Better To Transport Oxygen To Our Muscles

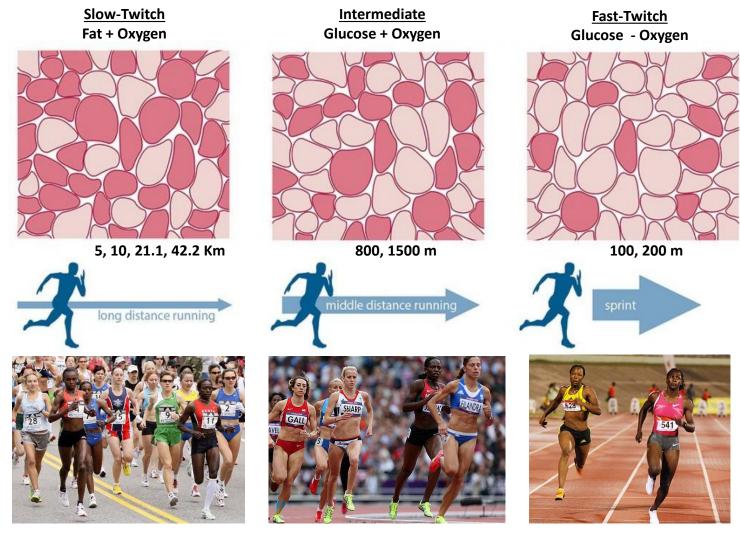


The more muscle we engage the more oxygen we require to produce energy to maintain running speed





# When We Run At Different Paces We Use Different Muscle Types & Different Energy Sources



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### How To Train? Running Workouts

- To target all our different muscle types we need to run at different paces.
  - Slow-Twitch: Walk, Jog, Easy Run, Distance Run
  - Intermediate: Distance Run, Intervals, Hill Running, Strides 5-20 sec @ 5000 m pace
  - Fast-Twitch: Flat Sprints, Hill Strides 10-20 sec @ 1500 m pace
- Faster running will teach us to run with better efficiency and with better technique.
- Most of our running should be done at conversational speed. Why?
  - At this speed we can breath in enough oxygen to fuel running from fat-burning.
  - With easy to comfortable running maintained for 30 120 minutes we increase our fatburning capacity and improve our oxygen- and fuel transport to the working muscles.

## Pace Table for Different Running Workouts

5 K Time	Distance Run : Pace per Km > 20 – 70 minutes	Long Run : Pace per Km > 60 - 120 minutes	Easy Run : Pace per Km > 20 – 40 minutes
Improvements	Slow-Twitch Intermediate	Slow-Twitch Oxygen Transport	Slow-Twitch Oxygen Transport Recovery
15:00	3:58 – 4:17	4:16 – 4:57	4:33 – 5:20
20:00	5:09 - 5:53	5:31 – 6:22	5:53 – 6:51
25:00	6:18 – 7:09	6:44 – 7:43	7:09 – 8:17
30:00	7:24 – 8:23	7:54 – 9:00	8:23 – 9:38
35:00	8:29 – 9:33	9:01 – 10:15	9:33 – 10:56

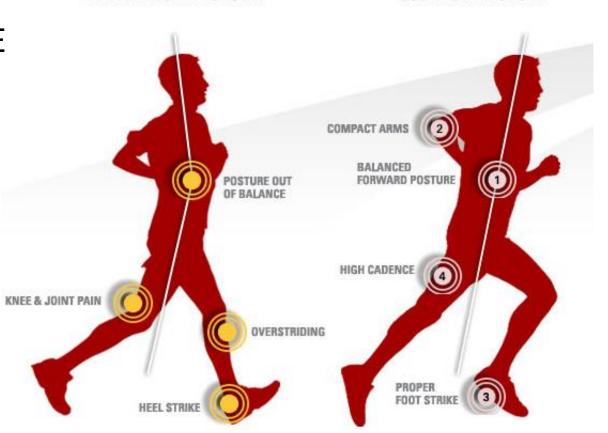
### Technique – Proper Running Form?

BALANCED FORWARD POSTURE

2. COMPACT ARMS

3. PROPER FOOT STRIKE

4. HIGH CADENCE



GOOD RUNNING FORM

**FAMILIAR RUNNING FORM** 

### Strength-Training For Runners

Important for a balanced body.

To prevent injury but also to improve running form.

- Body-Weight Exercises: 10-12 reps \* 3-4 sets
  - Focus on upper body
  - Focus on movements that works left and right side in parallell
- Weights in Gym: 3-10 reps \* 3-5 sets
  - Try to challenge yourself with the weights and decrease the number of reps to really increase your strength!
  - Will improve your running form and your stride length!







### Maria's Advice: How Do You Become A Better Runner?

Be nice to yourself! Sustainability!

It takes time for the body to adapt.







Even though I am not running particularly faster on my intervals right now compared to for one year ago, I recover better and it is less painful. That means that my body better adapts to the training and I avoid injury and infections.

Stick to the training program! With time you will be a faster runner!

