## Theshold

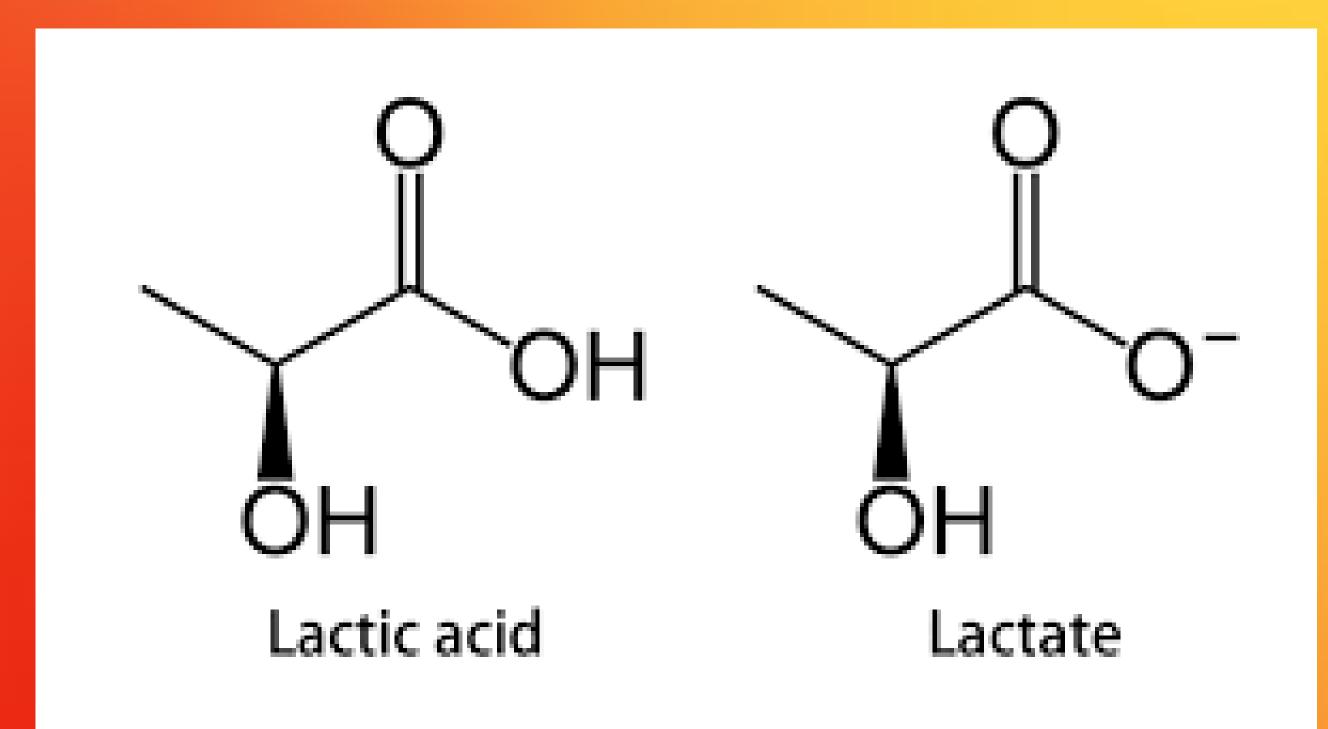
Training

Theory and Application

- 1. Threshold Training?
- 1. Benefits
- 2. Application

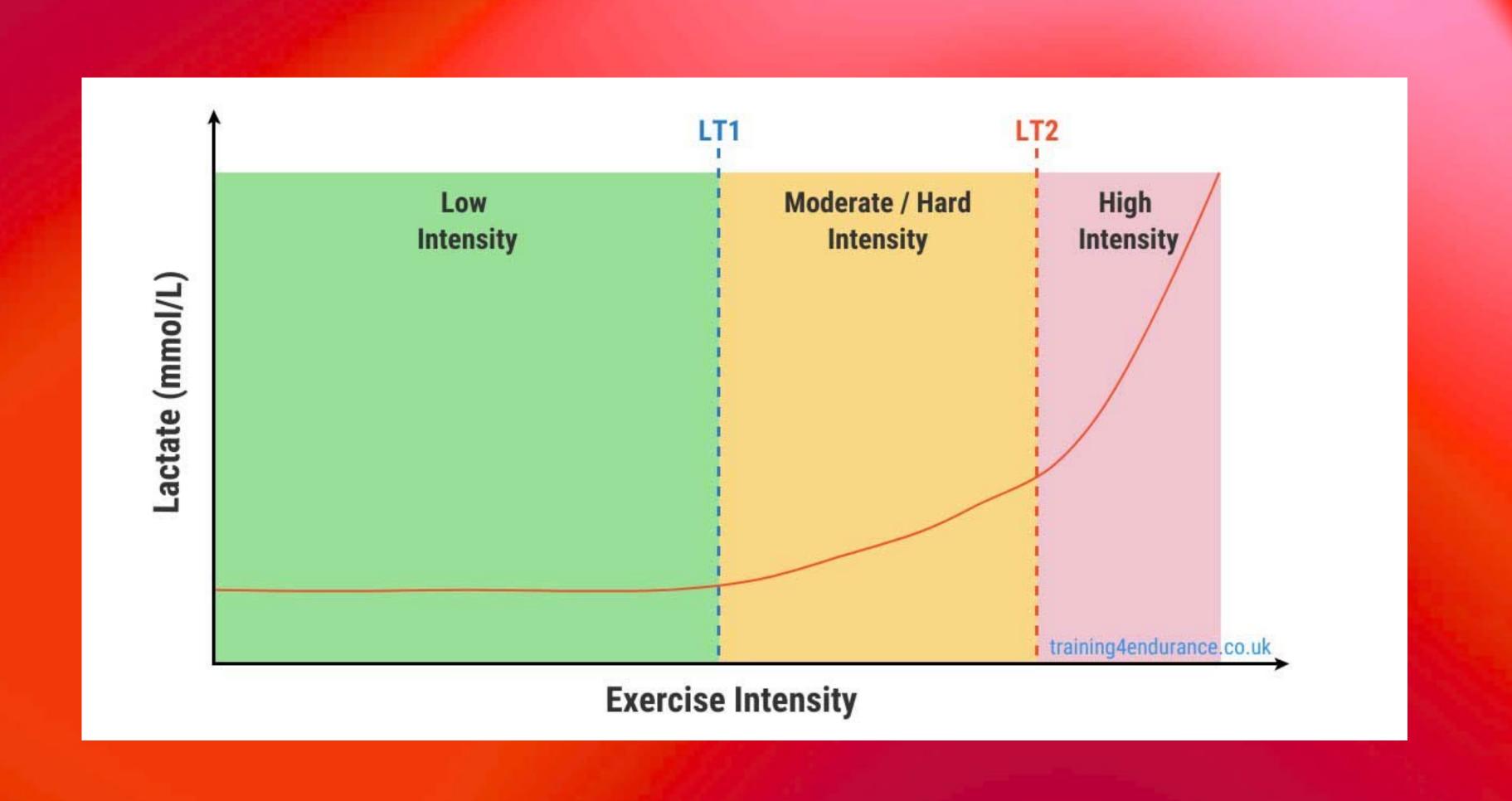


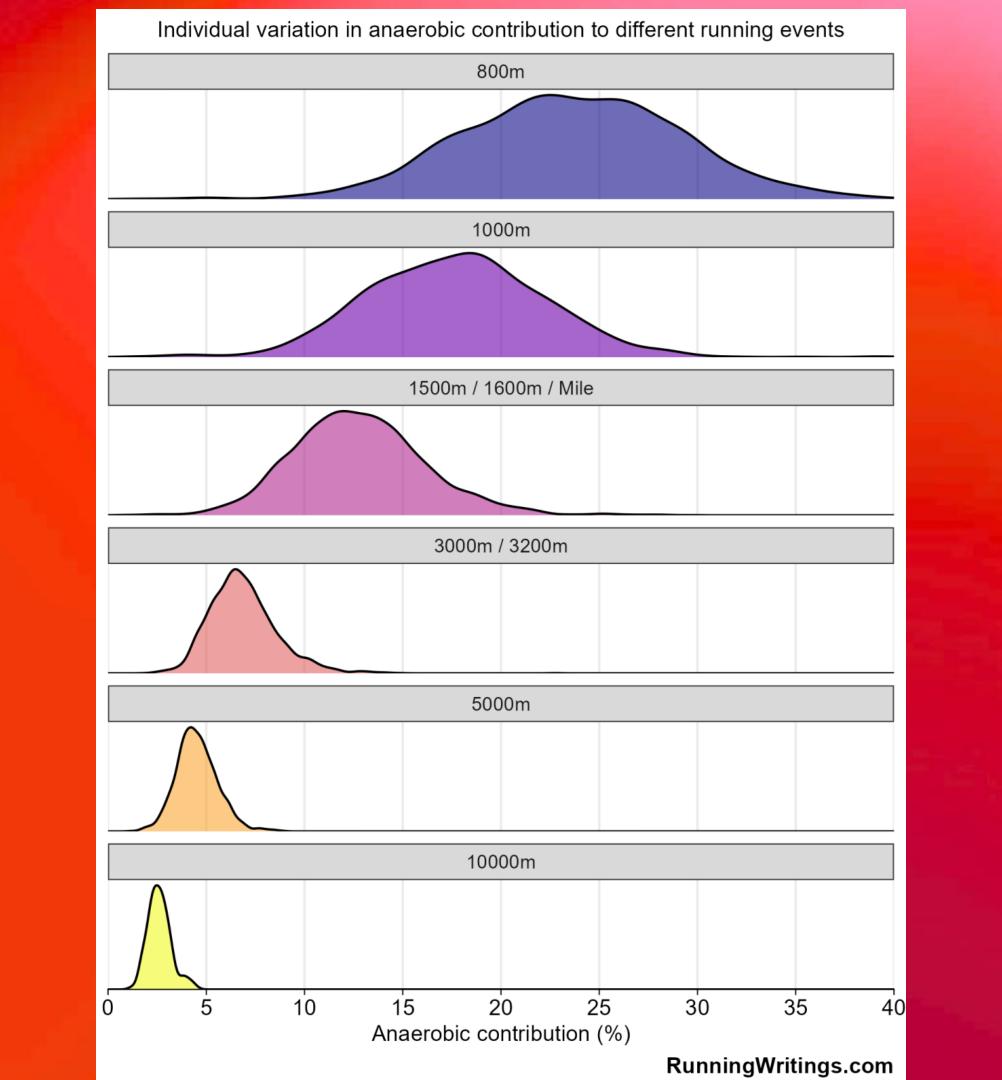




## "Threshold"

What is it & why should you care.





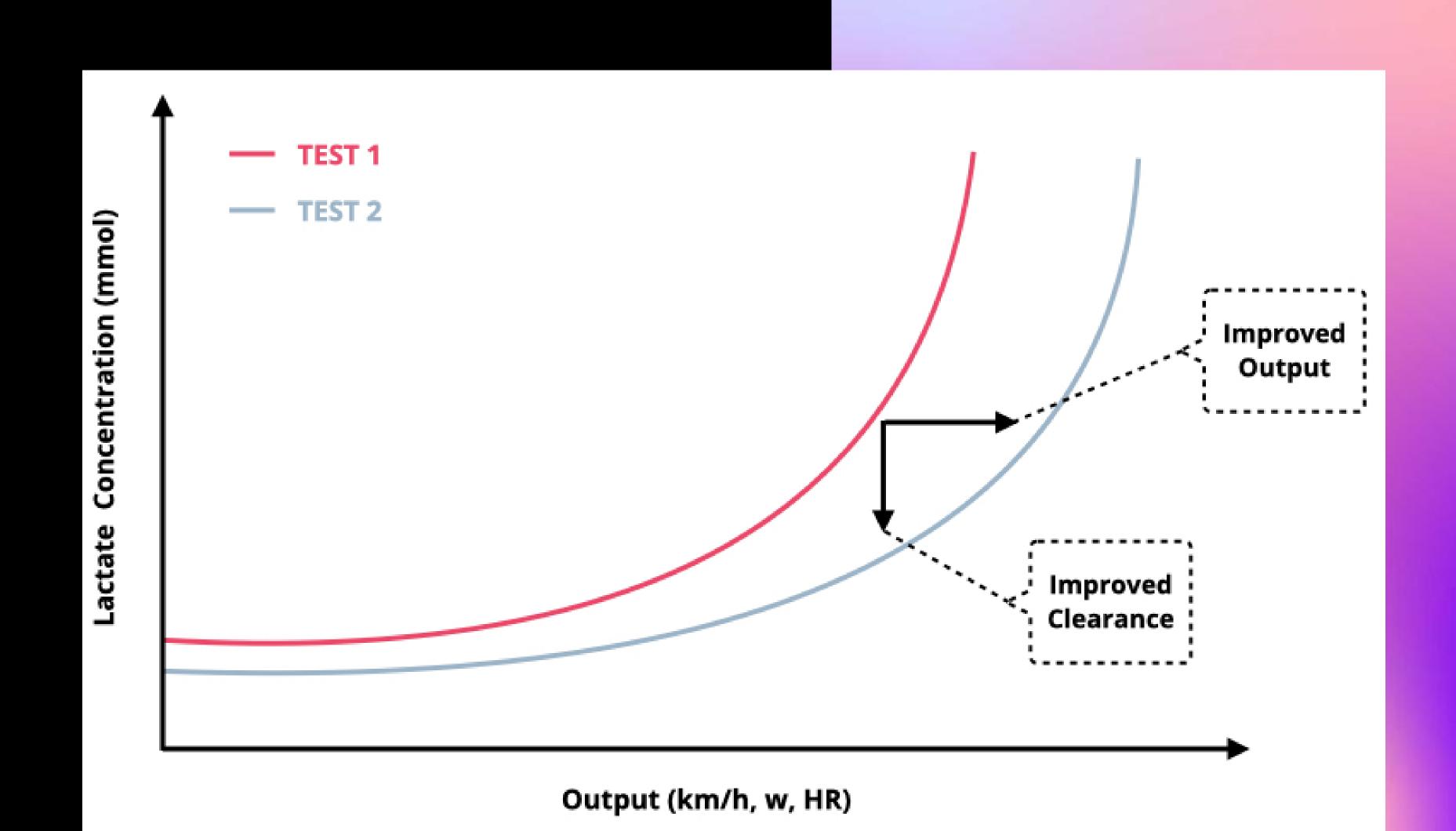
## Threshold Cont.

Threshold
training
represents the
top of the
aerobic
intensity scale
with the lowest
possible lactate
levels.

It's been made popular in recent years by Jacob Ingebritsen & the "Norwegian Method"

Primary benefits come from trading intensity for 'large' volumes.

# What does it do and why does it work?



- Lactate is a fuel source and by training in this "Zone" we increase the rate at which we can use lactate as a fuel.
- Muscles become better at clearing waste products from fast paced running.

# Clearance Capacity

- Ability to tolerate high levels of lactate is increased.
- Total work capacity is much higher due to low relative levels of intensity.

### Benefits

Threshold
training is
sustainable generally
requiring
shorter recovery
windows and less
chance of injury

Flexible
application can be
differentiated
for different
types of runners

- -Improved Sustainable Speed
- Improved endurance
- Improved Efficiency
- Can build other qualities while doing this training

# Application

## Application

Application can be quite different based on training goals / athlete strengths.

EG - 800m Specialist We can
manipulate rep
length/rest to
get get a
threshold
workout from
running that is
relatively close
to race pace.

In season it's best used as a "bridge" bet ween harder training sessions. Build first, then maintain.

# Application

- Application differs for 800/1600 and 1600/3200 runners quite markedly.
- Our goal is to create a sets and reps scheme that creates just enough of a response to move our fitness forward without overloading the system.
- Highly variable between athletes based on their age and training history.
- Threshold training is typically easier than the athlete thinks it is. Strong priority on intensity control.
- Again, best used as a bridge between race specific training sessions and/or races.

## 800m runners

- Typically we group 800m runners into two different categories.
- For our "speed based" 800m runners sometimes this training can be the 'most difficult'.
- We are trying to insert an aerobic component into their training schedule, in a way they are going to understand. Groups of short intervals with short rest @ slower than 800m pace are perfect.

- 3 x (6 x 150m) w/ 50m walk between reps, 3-4' between sets. 150's @ 800 pace + 2.5-3.5 seconds.
  - 2:00 800m = 25-26 second 150's
  - 2:35 800m = 30-31 second 150's

## 800m Cont.

3 x (6 x 150m) w/ 50m walk between reps, 3-4' between sets.

#### **Extend**

```
3 x (8 x 150m) w/ 50m walk between reps, 3-4' between sets.
3 x (10 x 150m) w/ 50m walk between reps, 3-4' between sets.
```

#### Intensify

```
4 x (5 x 150m) w/ 50m walk between reps, 3-4' between sets. 5 x (3 x 150m) w/ 50m walk between reps, 3-4' between sets.
```

# MD examples

- 10 x 300 w/ 100m easy jogging rest. Done @ 1600 pace + 8-10 seconds per 400m

4:45 -> 300's in 61->63

6:00 -> 300's in 75-77

#### Extend

2 x (7 x 300m) w/ 100m easy jogging rest, 3-4' between sets.

#### Intensify

3 x (5 x 300m) w/ 100m easy jogging rest, 3-4' between sets. Done @ ~3200m pace.

## 1600m/3200m

- Threshold training for athletes skewing towards 3200m looks much more like traditional T workouts you might find in training books.
- Our goal is to have a relatively high volume of medium effort running.
- Typically easier than the athlete thinks it is. Strong priority on intensity control. We'd rather miss slow than miss fast.
- In the early season this may take priority for the 1600m / 3200m athlete and as we approach the mid/late season we just need it for maintenance.
- General Guideline for pacing. Date 1600m SHAPE + 1:10 to start.
- 4:40 -> 5:50
- 5:45 -> 6:55

## 1600m/3200m

General Guideline for pacing. Date 1600m SHAPE + 1:10 to start for mile repeats.

- 4:40 -> 5:50
- 5:45 -> 6:55

Every distance down subtract ~ 10 seconds per mile.

1600 repeats - 5:50

1200 repeats - 5:40 pace (4:15)

800 Repeats - 5:30 pace (2:45)

400 repeats - 5:20 pace (1:20)

Rest guidelines - Short recoveries. Can build these over time. Start w/:90 and cut over weeks to:60.

1600 repeats on :60 to :90

1200 repeats on :60 to :75

800 repeats on :45 to :60

400 repeats on :30 to :45

# Thank you!

