Cardiovascular (CV) Training

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- The 7 Types of Cardiovascular (CV) Training
- Low Intensity Steady State (LISS)
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Designing and Tailoring CV Exercise Programmes

When you're creating the cardiovascular element of your PT programmes for your clients there are many aspects to consider. In this lecture, we will look at

- · the various modes of exercise you might employ,
- · how to monitor their intensity,
- · how the programme design will link to their goals, and
- · how you might train them outside of the typical gym environment...

Let's initially consider how the principles of training are represented when it comes to cardiovascular programme design.

The 7 Types of Cardiovascular Training

1) Low Intensity Steady State (LISS)

This type of training involves intensities of around 40 to 60% of maximum heart rate. It is basically something slow, easy, continuous and long (over 40 minutes). It can be walking, cycling, jogging, etc. You should be able to converse comfortably while doing it (called the talk test).

This type of training is good for people just getting started with cardio work. It is reasonably good for fat loss, especially in very obese people. It is also the least demanding form of aerobic training.

2) Medium Intensity, Medium Duration

This involves aerobic work done at around 70% of max heart rate. It is harder, therefore it cannot be done for as long -usually between 20 to 40 minutes. This is also the next step up from the low intensity work.

This type of training can be used for fat loss and for increasing aerobic capacity. It is characterized by the beginning of heavy breathing but not so much that you are soon out of breath and must stop.

3) High Intensity Interval Training (HIIT)

This version of aerobic work is done at around 80 to 85% of HR max. That point - at 85% of your HR max, is generally considered to be the anaerobic threshold, though this can vary depending on genetics and fitness level. It is a very demanding form of training, done for between 5 to 20 minutes generally, depending on fitness level and intensity.

4) Aerobic Interval Training

The first way of doing aerobic interval training involves doing a period of moderate to high intensity aerobic work, alternating with a period of rest of low intensity work For example, 3 minutes of fast running then 1 minute of slow walking - repeated 4 times.

You can vary the intervals and intensities to your liking. For example, 10 minutes of moderate work, 2 minutes easy, 1 minute hard, or perhaps 5 minutes hard, 5 minutes easy. The key is variation during the work while at the same time not working so hard that you must stop completely.

5) Anaerobic Interval Training

This type of training involves going hard for short periods of time and then resting for equal or longer periods of time. It is done at intensities of 85 to 100% of your HR max. Here is an example of how it works:

- 1. Sprint as hard as you can for 30 seconds,
- 2. Walk for 30 seconds,
- 3. Sprint 30 seconds,
- 4. Walk 30 seconds, etc.
- 5. Repeat 3 to 6 times depending on fitness level.

6) Fartlek Training

This is translated from Swedish, and means 'speed play'. Basically, you mix up all of the above types of training together into one session. You might run for 10 minutes, sprint for 30 seconds, walk for 2 minutes, run fast for 2 minutes, jog slowly for 5 minutes then sprint again.

It is a good way to work through the entire intensity spectrum as well as to prevent boredom.

7) Circuit Training

Circuit training is basically aerobic weight training. Here is an example of how it works:

- Set up a number of stations with a variety of exercises that work the entire body, e.g. bench curls, pulldowns, leg curls, etc.
- Use a fairly light weight that you can lift without going to failure for a pre-set period of time.
- You will do each exercise continuously for a specified time interval, e.g. 1 minute at each station and go through the cycle 1 to 3 times.
- · You can mix in treadmill work, skipping, cycling, etc. to add variety.

It is a reasonably good way to do aerobic work and weight training work at the same time. It also has the advantage of working the entire body instead of just the legs as most forms of aerobic training do.

Conclusion

There are many different types of cardiovascular training as you have just learnt. It's all about using the right tools for the right client and making it enjoyable for them.

