F.I.R.E.! - Fierce Interval Resistance Exercise!

Metabolic Training (MET) is completing compound, whole body exercises with little to no rest between exercises in order to maximize caloric expenditure in as short a time as possible. Metabolic training focuses on an increased metabolic rate during and post exercise.

- 1. MET uses large muscle groups through large ROM
- 2. MET is high intensity, typically with intervals above Lactate Threshold (LT)
- 3. MET Increases metabolism post exercise through increased Excess Post Oxygen Consumption (EPOC)

High intensity interval training (HIIT) uses relatively short, high intensity cardiovascular intervals that are alternated with less intense active recovery intervals. The workouts typically include short bursts (6 seconds to 4 minutes) of intense exercise (\geq 90% maximal aerobic capcity) alternating with relief breaks of varying lengths (Kessler, Sisson & Short 2012; Boutcher 2011).

Acute or Immediate Physiological Responses to a HIIT Workout

- Heart rate elevates significantly
- Epinephrine and norepinephrine are elevated 6.3-14.5 times above baseline
- Initially, blood glucose from glycogen breakdown is elevated for exercise fuel but it may decline during the HIIT session
- ATP and phosphocreatine decline steadily (used to meet rapid-fuel needs of contracting muscles.
- The sympathetic nervous system, which speeds up neural messages, is elevated
- The parasympathetic nervous system, which slows neural signaling messages, is depressed.
- Lactate levels may increase up to 10 times above baseline
- Growth hormone may increase up to 10 times above baseline
- Venous blood return to the heat is enhanced, directly increasing stroke volume
- Increased levels of blood glycerol and free fatty acids suggest early breakdown o triglycerides.

Program 1. Complex Training

Complex training involves performing a tri-set of 4 different exercises with little to no rest between. Exercise one is upper body bias, two is lower body bias, exercise three is a core bias and exercise four is cardio based. Goal: Improve core stability and power, increase total body dynamic range of motion and muscular strength endurance 45 min = 1 set. 60min = 2 sets. Using a partner creates an external anchor-point

Equipment: Rubber Resistance and Dumbbells

XT= Xertube, DB = Dumbbells,

Time: 45-60 seconds

Rest: 15-30 seconds after the quad-set

Speed: RR slow controlled, DB slow controlled, DB rapid momentum

Upper Body	Lower Body	Core	Cardio
DB 1-arm row	DB Goblet Sumo Squat	DB Russian Twist	Forward Leap 1-2 run
XT Partner Squat and Press	XT Partner facing Bow and Arrow Lateral Lunge	XT Partner Side-by- side out of sync sagital chop	High 10-Low 10
DB Alt Push Press	DB Transverse Lunge and Figure 8	Plank to Step- through Plank	Speed skater 1-2 quick/slow
XT Partner 1-arm row and rotate	XT Partner Chain- gang Squat	XT Partner Rotation	Partner Burpie high 10 Iow 5 + ½ turn jump

Program 2. Tri-Set Training

Tri-set training involves performing a tri-set of 3 different exercises with little to no rest between. Exercise one is upper body bias, two is lower body bias and three is a core bias. Goal: Improve core stability and power, increase total body dynamic range of motion and muscular strength endurance 30min = 1 set. 45min = 2 sets. 60min = 3 sets

Equipment: The Step, Rubber Resistance and Dumbbells

XT= Xertube, DB = Dumbbells

Time: 60 seconds Lower Body/60 seconds Upper Body/20:10 x 4 Cardio

Rest: 15-30 seconds after the tri-set

Speed: RR slow controlled, DB slow controlled, MB rapid momentum

Lower Body	Upper Body	Cardio
XT Lateral Squat/Rear Lunge	XT 1-Arm Row	1-2 Jump Switch Lunge
DB X-Over Step up/Lateral Lunge	Scorpion Push up to side plank	Sprinter Runs
XT Front Step up/1-legged squat heel tap front	XT Sword Draw + curl	Quick Feet Straddle Taps

Program 3. Complex Training

Complex training involves performing two sets of two different exercises with little to no rest between. Goal: Improve power endurance, anaerobic capacity, increase total body dynamic range of motion and muscular strength endurance 30min = 1 set. 45min = 2 sets. 60min = 3 sets

Equipment: The Step Rubber Resistance and Dumbbells

XT= Xertube, DB = Dumbbells,

Time: 45-60 seconds

Rest: 15-30 seconds after the tri-set

Speed: RR slow controlled, DB slow controlled, DB rapid momentum

Total Body	Cardio
DB Golf Chop	Knee Hop Mountain Climber
XT Sword Draw and curl with step up	Along the Step + Jump Switch
Scorpion Push Up	Straddle Burpie jump up
DB Dead lift plank	Quick Switch x 4 + Leap
DB Alt Walk up lunge back curl press	Alt Side Power Squat
DB Plank Row	Jump Lunge
DB X-over Step up	Repeater Knee Skip

People don't care about how much you know until they know how much you care!

www.keliroberts.com keli@keliroberts.com www.facebook.com/keliroberts2