











The Keys To Metabolic Flexibility

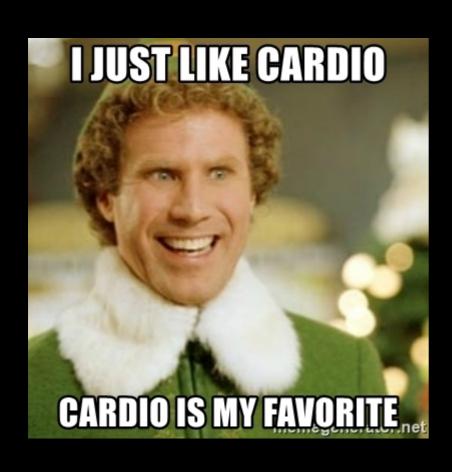
B.S. Sacred Heart University, Fairfield, CT Institute Of Motion & ViPR PRO Master Instructor

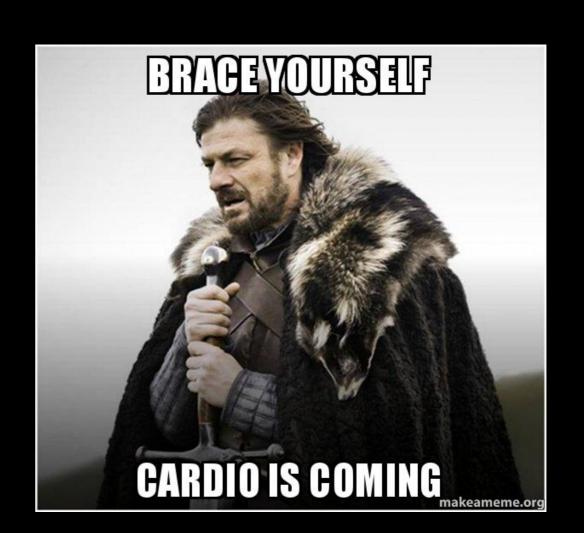
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Course Objectives:

- Define and Identify the Importance of Metabolic Flexibility
 - Explore the 4Q MetCon model

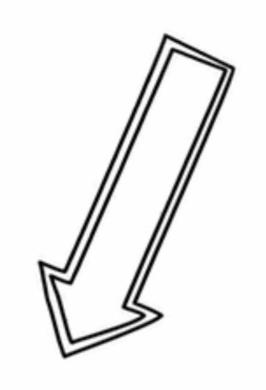




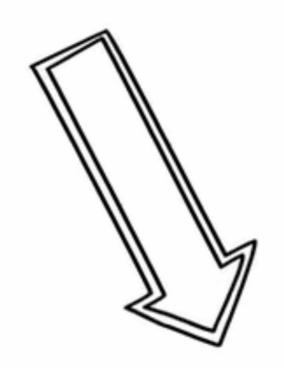
CARDIO IS MUCH MORE THAN CARDIO...

Energy Systems Review

Aerobic Metabolism (with O2)

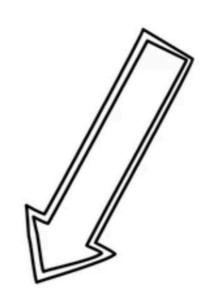


Aerobic Glycolysis

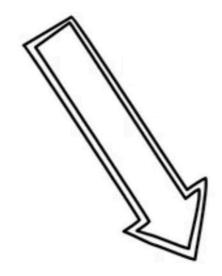


Fat Oxidative

Anaerobic Metabolism (without O2)







Anaerobic Glycolysis (Lactic)

Metabolic Flexibility

"The ability to respond or adapt to conditional changes in Metabolic Demand"

"Easily transition between fuel sources (carbs/fats) to accommodate any activity"

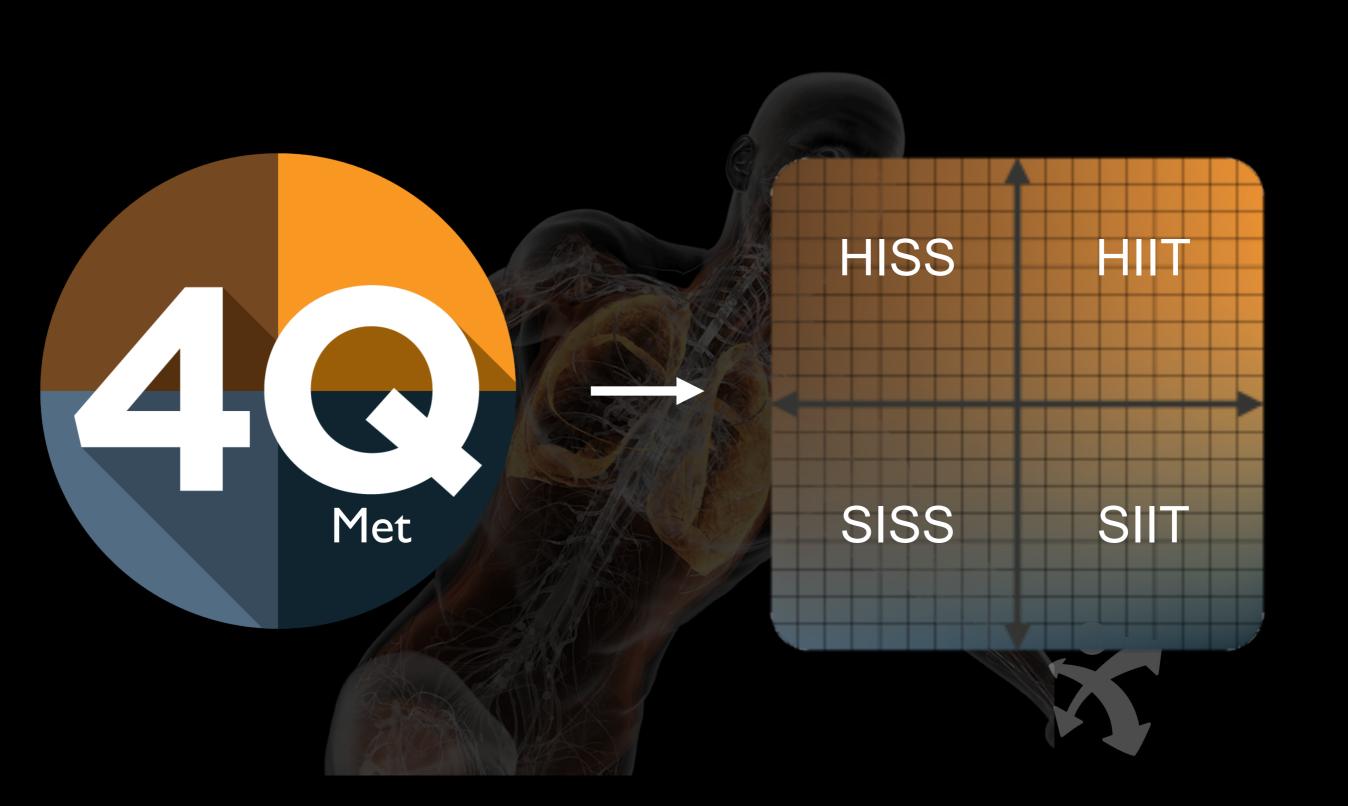


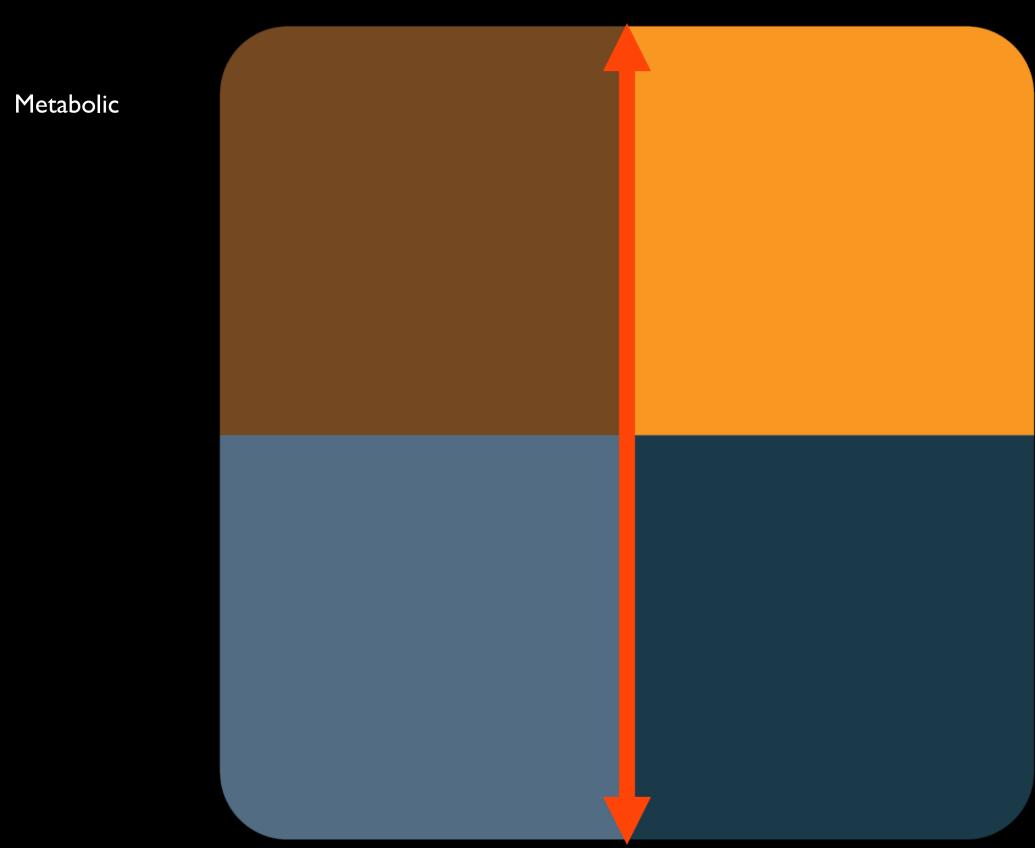
Metabolic In-Flexibility

May lead to Metabolic Syndrome

- Insulin Resistance/Glucose Intolerance
- Obesity
- Hypertension
- Elevated blood lipids

Also Decrease Performance





Sub-threshold Intensity

Steady State "Continuous" Interval

Metabolic

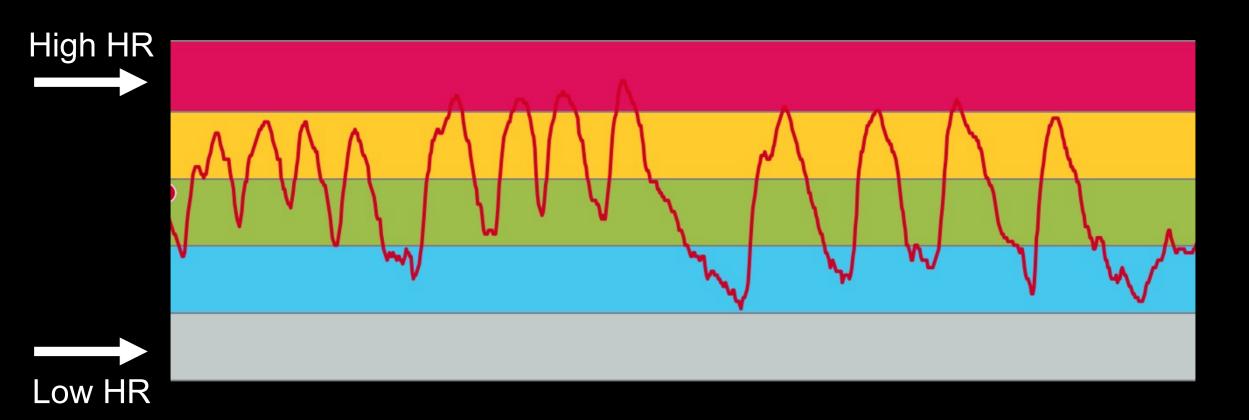
High Intensity Steady State

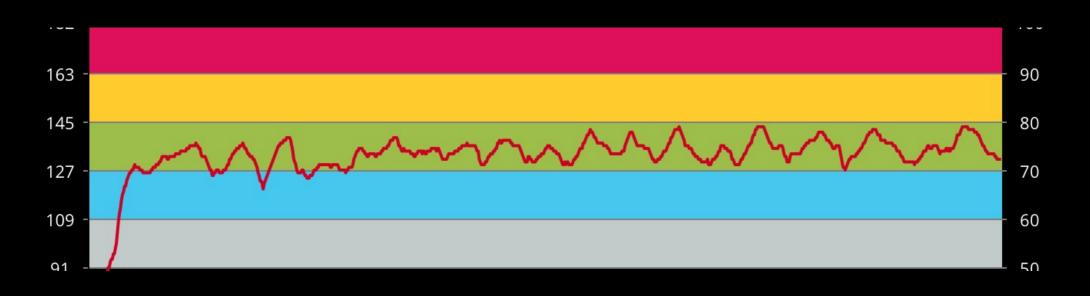
High Intensity Interval Training

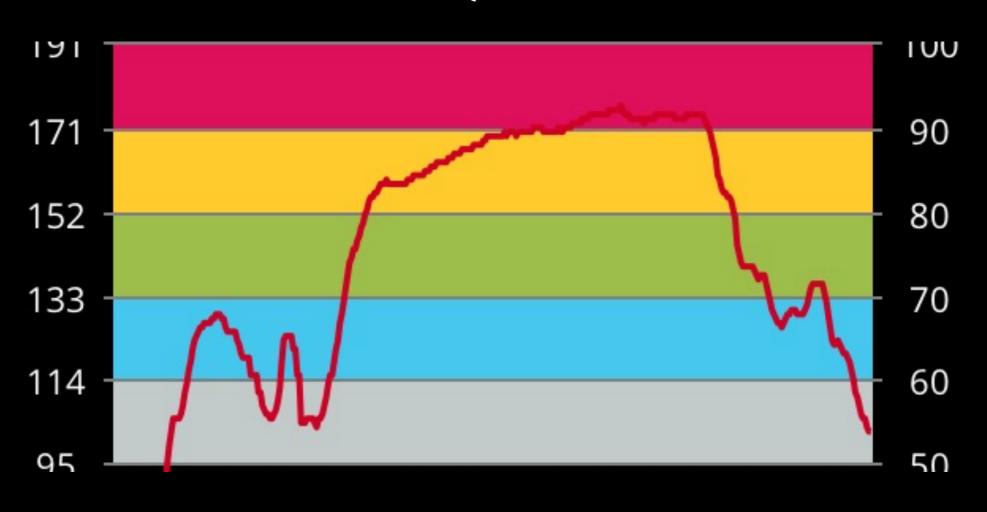
Steady State

Sub-threshold Intensity Steady State

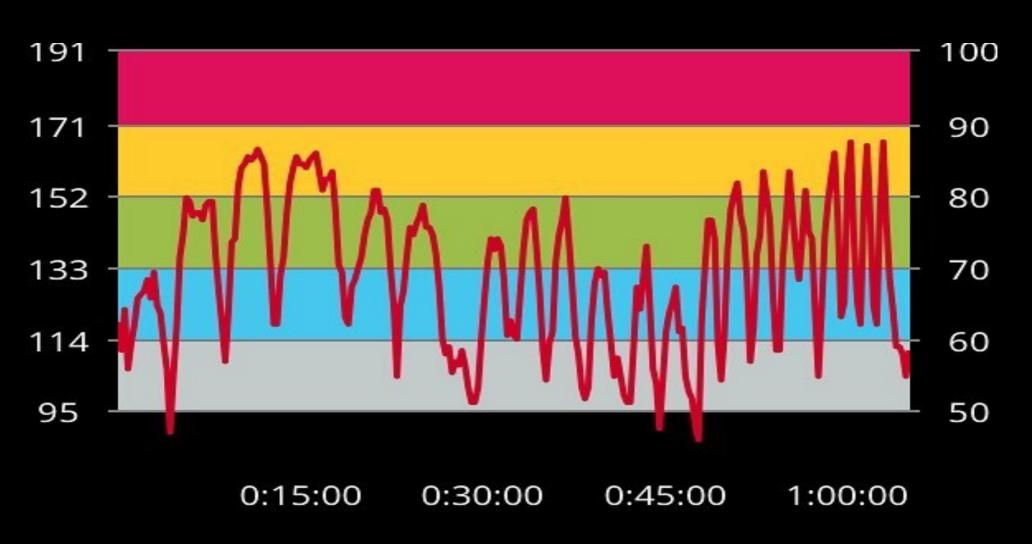
Sub-threshold Intensity Interval Training











High Intensity Steady State

High Intensity Interval Training

Steady State

Sub-threshold Intensity Steady State

Sub-threshold Intensity Interval Training

High Intensity Steady State

High Intensity Interval Training

Steady State

Sub-threshold Intensity Steady State Sub-threshold Intensity Interval Training

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Sub-threshold Intensity Steady State Sub-threshold Intensity Interval Training

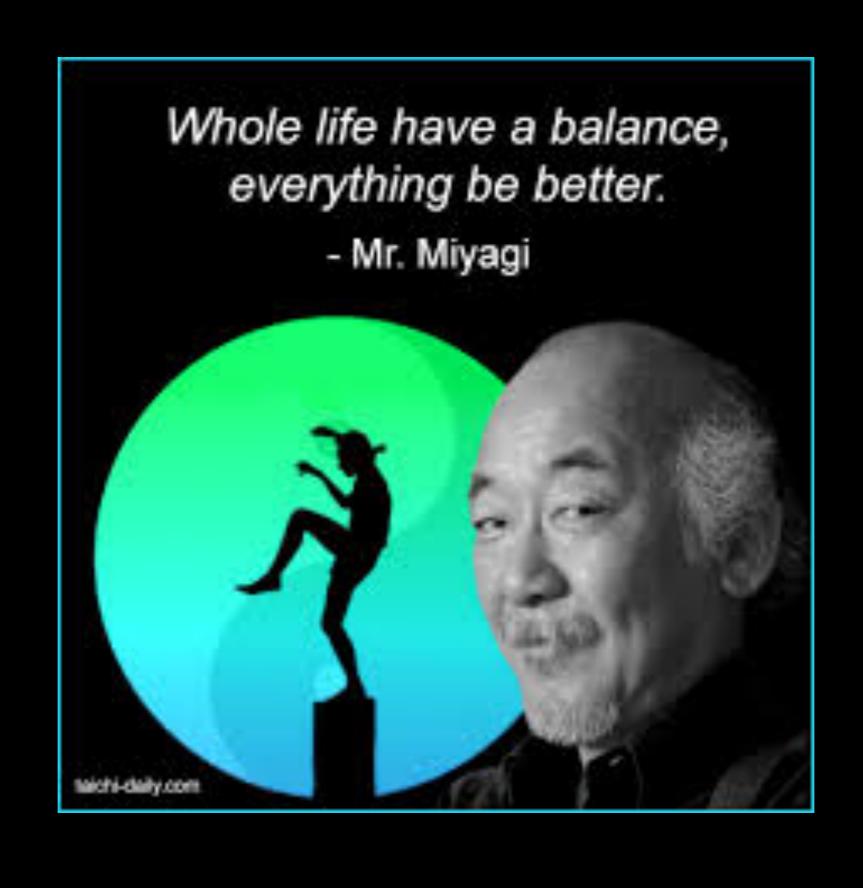
High Intensity Steady State

High Intensity Interval Training

Steady State

Sub-threshold Intensity Steady State Sub-threshold Intensity Interval Training

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Thank you! @GiovanniRoselli Gio@InstituteOfMotion.com