

Exercise Training at the Highest Level of Fat Oxidation Boosted Middle-Aged Overweight Women's Health-Related Physical Fitness

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Introduction

Exercise training at the maximal fat oxidation (FATmax) intensity has gained increasing attention in recent years as a potential strategy for optimizing fat metabolism during exercise [1]. FATmax refers to the exercise intensity at which the highest rate of fat oxidation occurs, and it is often used as a marker of the intensity at which exercise can be sustained for longer periods of time without fatigue [2].

Exercise training at the maximal fat oxidation (FATmax) intensity has been shown to improve fat metabolism during exercise, body composition, and insulin sensitivity in overweight and obese individuals. However, it is important to consider individual factors such as age, fitness level, and diet when determining the appropriate exercise intensity for training [3-5]. Training at the FATmax intensity may not be suitable for everyone, and it may not be optimal for improving maximal oxygen uptake (VO₂max), an important marker of cardiovascular fitness [6, 7]. It is important to consult with a healthcare professional or certified exercise specialist to develop a safe and effective exercise program tailored to individual needs and goals. Several studies have investigated the effects of training at the FATmax intensity, and the results have been promising [8]. One study, for example, showed that cycling at the FATmax intensity for 8 weeks improved fat oxidation during exercise, as well as body composition and insulin sensitivity in overweight and obese individuals. Another study found that training at the FATmax intensity for 6 weeks improved running performance in trained runners, with greater improvements observed in those who had a lower initial FATmax [9].

However, it is important to note that training at the FATmax intensity may not be suitable for everyone. The FATmax intensity varies between individuals and depends on factors such as age, fitness level, and diet. In addition, training at the FATmax intensity may not be optimal for improving maximal oxygen uptake (VO₂max), which is an important marker of cardiovascular fitness [10].

Furthermore, some individuals may find it difficult to sustain exercise at the FATmax intensity, particularly if they are unaccustomed to higher intensity exercise. In these cases, it may be more appropriate to start with lower intensity exercise and gradually increase the intensity over time [11].

Overall, exercise training at the FATmax intensity is a promising strategy for improving fat metabolism during exercise and may be beneficial for certain populations. However, it is important to consider individual factors and goals when determining the appropriate exercise intensity for training. Consultation with a healthcare professional or certified exercise specialist may also be helpful in developing a safe and effective exercise program [12-15].

Conclusion

In conclusion, exercise training at the maximal fat oxidation (FATmax) intensity is a promising strategy for optimizing fat metabolism during exercise and improving body composition and insulin sensitivity

in certain populations. However, individual factors such as age, fitness level, and diet should be considered when determining the appropriate exercise intensity for training. It may not be suitable for everyone, and it may not be optimal for improving maximal oxygen uptake (VO₂max), which is an important marker of cardiovascular fitness. Consultation with a healthcare professional or certified exercise specialist is recommended to develop a safe and effective exercise program tailored to individual needs and goals.

Acknowledgement

None

Conflict of Interest

None

References

1. Tefera W, Brhanie TW, Dereje M (2020) Dietary diversity practice and associated factors among pregnant women attending ANC in Kolfe Keranyo sub city health centers, Addis Ababa, Ethiopia. medRxiv.
2. World Health Organization (2003) Fruit and vegetable promotion initiative. Rep Meet Geneva, 25-27 August.
3. Pan African Medical Journal (2018) The prevalence and social determinants of fruit and vegetable consumption among adults in Kenya: a cross-sectional national population-based survey 8688:2-7.
4. Kanungsukkasem U, Ng N, Minh H Van, Razzaque A, Ashraf A (2009) Fruit and vegetable consumption in rural adults population in INDEPTH HDSS sites in Asia 28: 2.
5. Tefera W, Brhanie TW, Dereje M (2020) Dietary diversity practice and associated factors among pregnant women attending ANC in Kolfe Keranyo sub city health centers, Addis Ababa, Ethiopia. medRxiv.
6. World Health Organization (2003) Fruit and vegetable promotion initiative. Rep Meet Geneva 25-27 August.
7. Pan African Medical Journal (2018) The prevalence and social determinants of fruit and vegetable consumption among adults in Kenya: a cross-sectional national population-based survey 8688:2-7.
8. Kanungsukkasem U, Ng N, Minh H Van, Razzaque A, Ashraf A (2009) Fruit and vegetable consumption in rural adults population in INDEPTH HDSS sites in Asia 28: 2.
9. Status WP (1995) The use and interpretation of anthropometry. WHO technical report series 854: 1-452.

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Received: 01-May-2023, Manuscript No. snt-23-98719; Editor assigned: 04-May-2023, PreQC No. snt-23-98719 (PQ); Reviewed: 18-May-2023, QC No. snt-23-98719; Revised: 23-May-2023, Manuscript No. snt-23-98719 (R); Published: 30-May-2023, DOI: 10.4172/snt.1000203

Citation: Tan S (2023) Exercise Training at the Highest Level of Fat Oxidation Boosted Middle-Aged Overweight Women's Health-Related Physical Fitness. J Nutr Sci Res 8: 203.

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10. NIH technology assessment statement (1994) Bioelectric impedance analysis in body composition measurement. Bethesda USA:1-35
 11. Baracos VE, Martin L, Korc M, Guttridge DC, Fearon KC (2018) Cancer-associated cachexia. *Nature reviews Disease primers* 4: 1-8.
 12. Fox KM, Brooks JM, Gandra SR, Markus R, Chiou CF (2009) Estimation of cachexia among cancer patients based on four definitions. *Journal of oncology*.
 13. Hersberger L, Bargetzi L, Bargetzi A, Tribolet P, Fehr R, et al. (2020) Nutritional risk screening (NRS 2002) is a strong and modifiable predictor risk score for short-term and long-term clinical outcomes: secondary analysis of a prospective randomised trial. *Clin Nutr* 39: 2720-2729.
 14. Ni J, Zhang L (2020) Cancer cachexia: Definition, staging, and emerging treatments. *Cancer Manag Res* 12: 5597.
 15. Grundmann O, Yoon SL, Williams JJ. Malnutrition, Cachexia, and Quality of Life in Patients with Cancer. *Handbook of Famine, Starvation, and Nutrient Deprivation* 943-59.