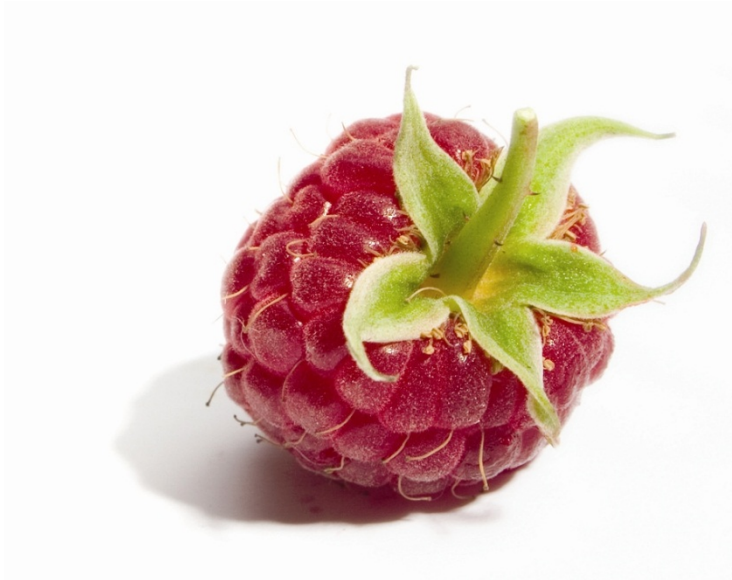


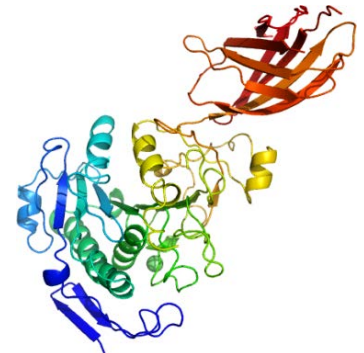
Razberi-K[®]

Helping Support a Proper Metabolism



Razberi-K[®]

- Supporting proper metabolic function may help promote healthy bodyweight.
- This maybe accomplished through the help of raspberry ketone (4-(4-hydroxyphenyl)-2-butanone), which is structurally similar to the known weight managing compounds capsaicin and synephrine.
- Raspberry extracts inhibit α -amylase activity (McDougall et al., 2005).
 - α -amylase is responsible for the breakdown of starches in digestion to sugar molecules like glucose and galactose.
 - Halting the intake of these sugar molecules would reduce their amount stored as fat and would effectively help manage weight.
- Lipolysis is hydrolysis of lipids to form free fatty acids and glycerol for metabolism (Reshef et al., 1958).
 - A majority of the white adipose tissue is composed of large lipid droplets used as energy storage vesicles.
 - Lipolysis is catalyzed by lipase enzymes, in particular in fat cells Hormone Sensitive Lipase (HSL) (Morimoto et al., 1997).
 - The rate limiting step in lipolytic activation is the translocation of HSL from the cytosol to the lipid droplet (Morimoto et al., 2001).
 - This can be facilitated by;
 - Epinephrine
 - Norepinephrine
 - Glucagon
 - Raspberry Ketone (Morimoto et al., 2005)



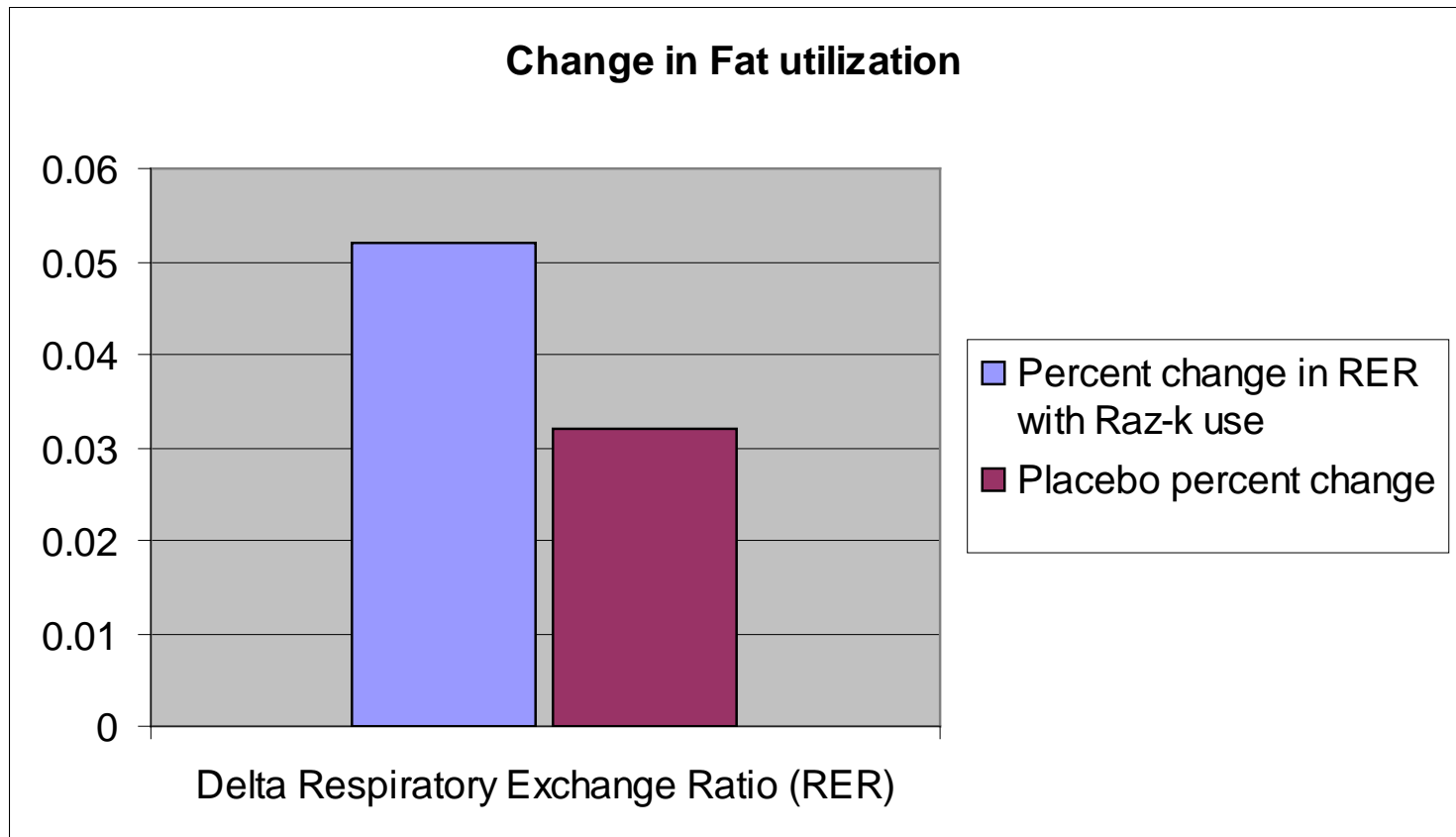
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Ohio Research Group Study Conducted by:
Dr. Tim Zigenfuss

Purpose: To determine the effect raspberry ketone supplementation on post exercise metabolic rates, fat oxidation, and to determine the safety of raspberry ketone use.

Methods:

- Ten individuals participated
- Placebo controlled trial
- 200mg of Raspberry ketone used
- Participants performed three bouts of exercise
- Metabolic rate was assessed by calorimetry
- Substrate oxidation was assessed by respiratory exchange ratios
- Pre and post exercise blood samples were taken along with a post trial blood sample



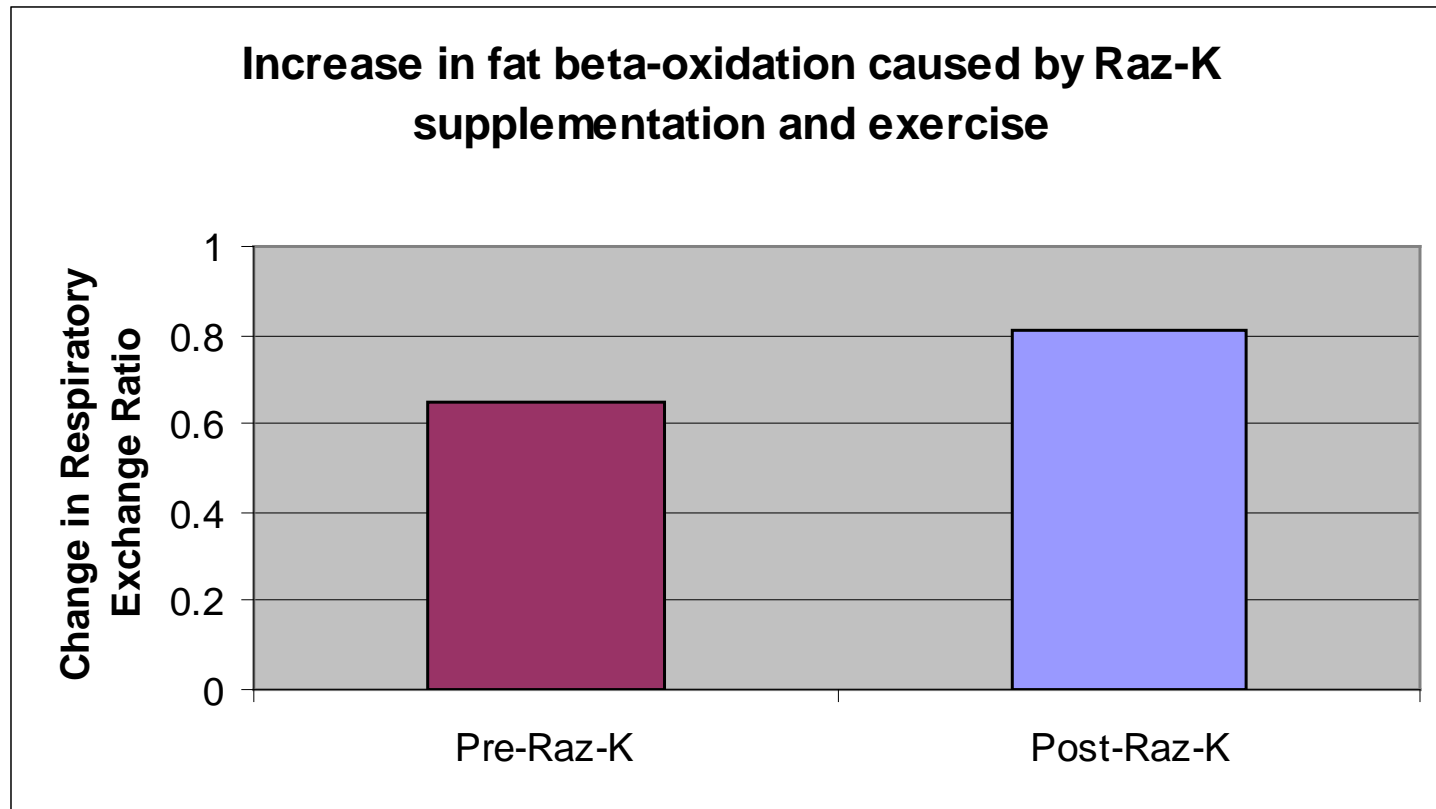
Results:

- Supplementation did influence and increase in fat oxidation
- Raspberry ketone was found to be safe for consumption after the 30 day trial period and dosage size could possibly be increase above the 200mg per day current dosage.

Conclusion:

- Raspberry ketone may help increase fat oxidation and potentially reduce weight.
- Supplementation is safe for human consumption.

Razberi-K supplementation increase fat beta-oxidation by 25%.





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Contact Information:

NuvoCare Health Sciences Inc.

TEL(416) 901-8596 FAX (416) 546-7285

Order Product: info@nuvocare.com