



ReOxy[®]

New technology
for weight
management



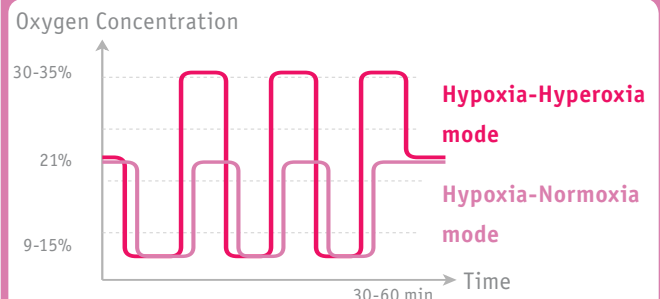
ReOxy[®] is ...

- a new device for Interval Hypoxic Training in the "Hypoxia - Hyperoxia" mode (IHHT) based on SRT technology
- a treatment using reduced and enriched oxygen gas mixtures, that leads to more efficient transport and utilization of O₂ by body tissues
- a method based on more than 10 years of research and clinical trials
- a non-pharmaceutical treatment with minimal side-effects
- a unique solution for all ages including elderly/senior

ReOxy[®] features & benefits:

- SRT-technology: Individual Treatment Programme and Control
- Unique patented built-in software algorithms
- Fully automated procedure, easy to operate
- Patient safety (multi-level controls, physiological and technical alarms)
- Compact, mobile, autonomous (no need for a specially equipped room)
- Records and stores all measurements
- Automatic analysis of procedure results

The advantages of IHHT



- increase in the amplitude of the treatment factor, without more intense hypoxia (higher efficacy)
- shortening recovery periods and the procedure and total course duration

How does it work?

The therapeutic effect of ReOxy[®] treatment relies upon physiological adaptive response to repeated mild short-term hypoxia (10-15% O₂) and short-term hyperoxia (30-40% O₂).

Hypoxic and Hyperoxic breathing gas mixtures are supplied via the facial mask.

The switchover between gas mixtures throughout a procedure performed automatically, controlled by biofeedback principle using SRT[®] technology.

ReOxy[®] Test

- Prior commencement of course
- After every 3-4 procedures



SRT

ReOxy[®] Training

- Course of 10-15 procedures
- Daily / every other day



ReOxy[®] Report

- Results analysis / interpretation
- Generation of PDF reports
- Data storage



Case 1

F. 42 y.o., BMI 35, low physical activity.
15 ReOxy sessions, every day, subsequent physical exercises.



Case 2

F. 28 y.o., BMI 30, moderate physical activity.
10 ReOxy sessions, every other day interspersed with physical exercises.



Case 3

F. 35 y.o., morbid obesity, BMI 42, no physical activity.
2 ReOxy sessions, bariatric surgery with subsequent 15 ReOxy sessions every other day.



ReOxy training effects:

- Increases body weight loss
- Suppresses the appetite, reduction of caloric intake
- Decreases total cholesterol
- Decreases blood glucose levels
- Improves insulin sensitivity
- Improvement in body composition, increase in fatfree mass
- Reduces of depression symptoms
- Improves metabolic risk factors

A novel mode of interval hypoxic-hyperoxic training technology has shown to be effective in correction of selected metabolic and cardiovascular risk factors and exercise tolerance, which have been achieved faster than in “traditional” training programs.

Weight loss due to loss of fat mass achieved by ReOxy training in obese subjects was associated with cholesterol level decrease, optimization of glucose/insulin metabolism, reduction

of sympathetic activation by exercise stress, improved exercise tolerance and subjective life quality improvements. Thus, IHHT elicits a similar or even better response in terms of physical fitness, cardio metabolic risk markers, and body composition without physical workload.

Positive effects of IHHT can be partly explained by balancing of initially deregulated orexigenic/anorexigenic brain-gut hormones and adipokine's profiles, optimizing individual food behavior patterns.

Influence of ReOxy on weight gain

↓ Food intake

- Appetite suppression – phenomenon called ‘altitude anorexia’
- Increased Leptine and reduced Adiponectine levels
- Anxiolytic effect

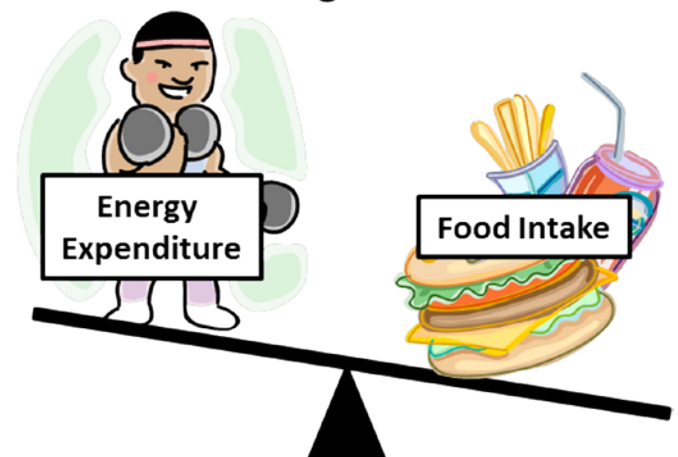
↑ Energy Expenditure

- induce negative energy balance
- Increased physical endurance and exercise workload

● Metabolic effects

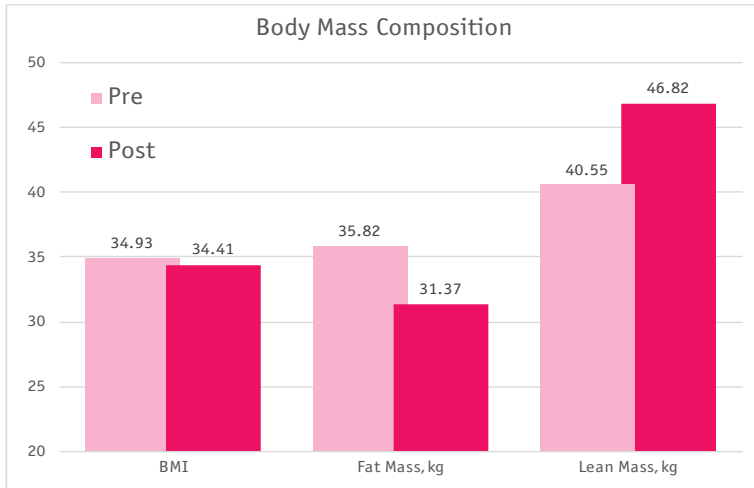
- increases the activity of glycolytic enzymes and glucose transporter GLUT-4 levels
- Hypoglycaemic effect

Weight Gain



The improvement of body mass composition in obese patients after 3 weeks of standalone ReOxy training (without diet changes or physical exercises)

The Central Scientific Research Institute of Gastroenterology & Endocrinology, Moscow, Russia



- 35 inpatients (12 M, 23 F)
- Age 36-64
- Gender: both
- Metabolic Syndrome, BMI – 34,8±1,5
- IHHT – 15 sessions every day

Results:

The IHHT group showed essential weight loss vs. placebo (BMI decreased 9.2% vs. 4.8%, $p < 0.01$) due to the loss of fat mass, the resting BP and HR reduction ($p < 0.01$), physical endurance increase in 6MWT (+7.8% vs. +3%, $p < 0.001$). Total cholesterol level, triglycerides, fasting glucose decreased in both groups, LDL – in IHHT group only (-9.8 % vs. -3.4%, $p < 0.01$).

Reduction of weight in 80% of the patients

13 ° CONGRESSO NAZIONALE GICR/IACPR Genova 27-29/10/2016

ReOxy, UN NUOVO TRATTAMENTO NON-INVASIVO
DI ELLIE PATOLOGIE CARDIO-METABOUCHE

Cerulli M., Fiorini F., Busoli L., Scaringi Raspagliesi
F. - U.O. Cardiologia Riabilitativa Ospedale Privato
Accreditato Villa Pineta-Gaiato (MO)

Operative
medical
control



ReOxy is CE-marked, approved and intended for improvement of physical exercise capacity in coronary artery disease patients.



● Patient body monitoring

● Built-in multi-level safety system

● Fully automated procedure

Designed by
Ai Mediq S.A.

19, Rue de Bitbourg
L-1273, Luxembourg

Manufactured by
Bitmos GmbH

Himmelgeister Str. 37
D-40225, Düsseldorf
Germany